

SERVICE MANUAL

SERVICE MANUAL SECTION

**Advanced Energy Hybrid CE Model Starting March, 2007 — ELECTRICAL
CIRCUIT DIAGRAMS**

Model: CE Bus

S08328

04/02/2007

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1. SAFETY INFORMATION

Portions of the circuitry in these circuit diagrams contain high voltages. Only trained technicians should perform maintenance on this circuitry. High voltage circuits will be identified by orange cables or conduit, but all circuits should be treated as potentially dangerous. Refer to TSI 06-08-05, <https://evaluate.internationaldelivers.com/service/tsipdf/060805.pdf>, for proper procedures in dealing with high voltage circuits.



WARNING – To avoid property damage, personal injury or death, refer to the manufacturer's service information before working on any high voltage equipment. By definition high voltage circuits and components contain voltage levels that may cause equipment damage, electrical shock and/or electrocution if handled incorrectly.

Only a trained technician may perform service inside high voltage components. If you work around or maintain high voltage circuits, please seek high voltage training.



WARNING – To avoid property damage, personal injury or death, circuits must be checked using a voltmeter for the presence of both dc and ac voltages. A voltmeter set to dc will not indicate the presence of an ac voltage when connected to an ac circuit! Contacting an unknown ac or dc voltage may cause equipment damage, electrical shock and/or electrocution.

Only a trained technician may perform service inside high voltage components. If you work around or maintain high voltage circuits, please seek high voltage training.



WARNING – To avoid personal injury or death, permit only trained responsible and capable persons to operate or maintain the equipment. Carelessly operating or neglecting maintenance despite the safe design of any vehicle and its high voltage equipment may result in personal injury or death.

The danger of injury through electrical shock is possible whenever electrical power is present. Most fatal injuries result from high-voltage exposure; however, people can sustain severe injuries from low voltage power if it has a high current flow.

2. CIRCUIT DIAGRAMS

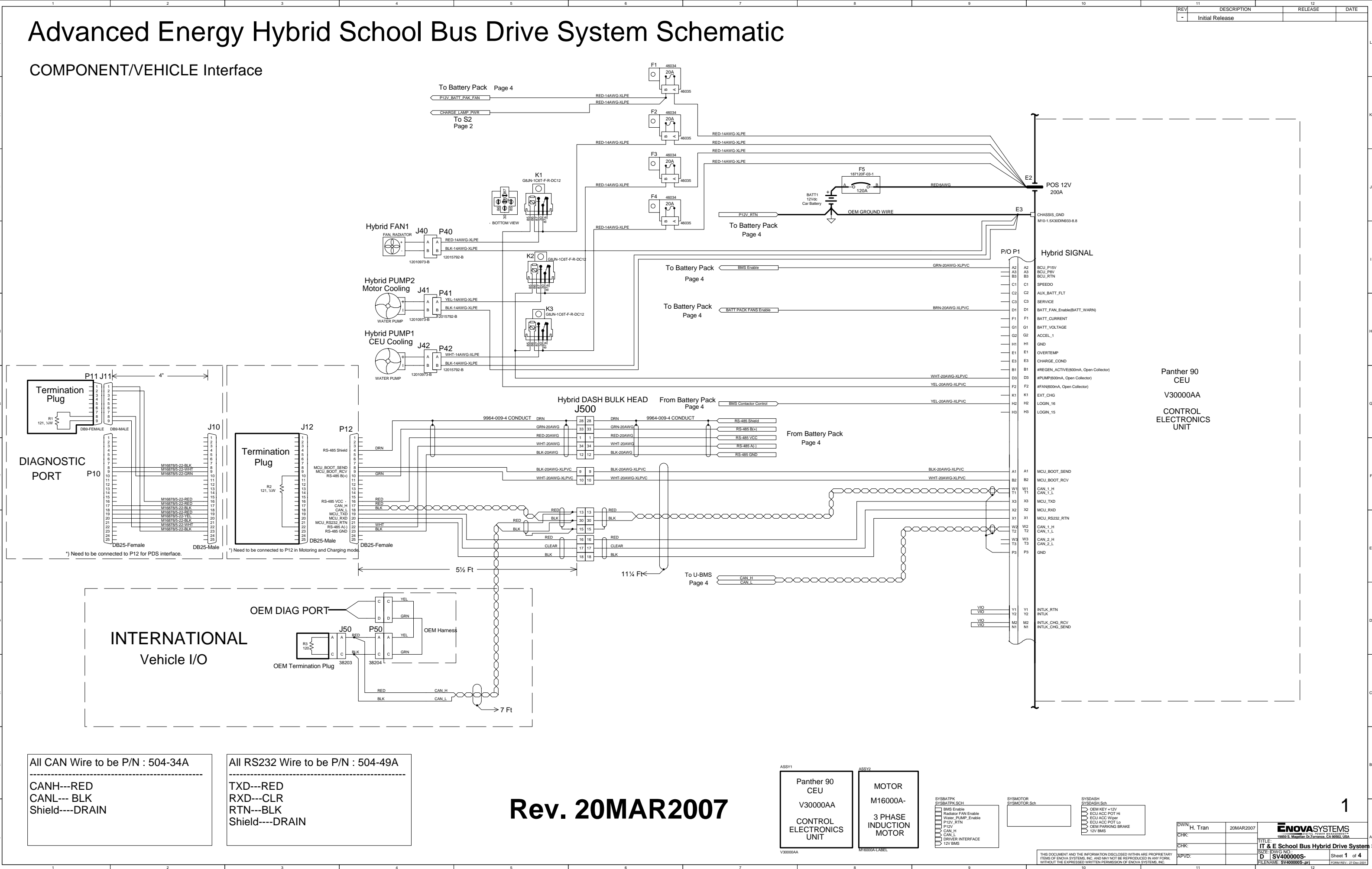
NOTICE

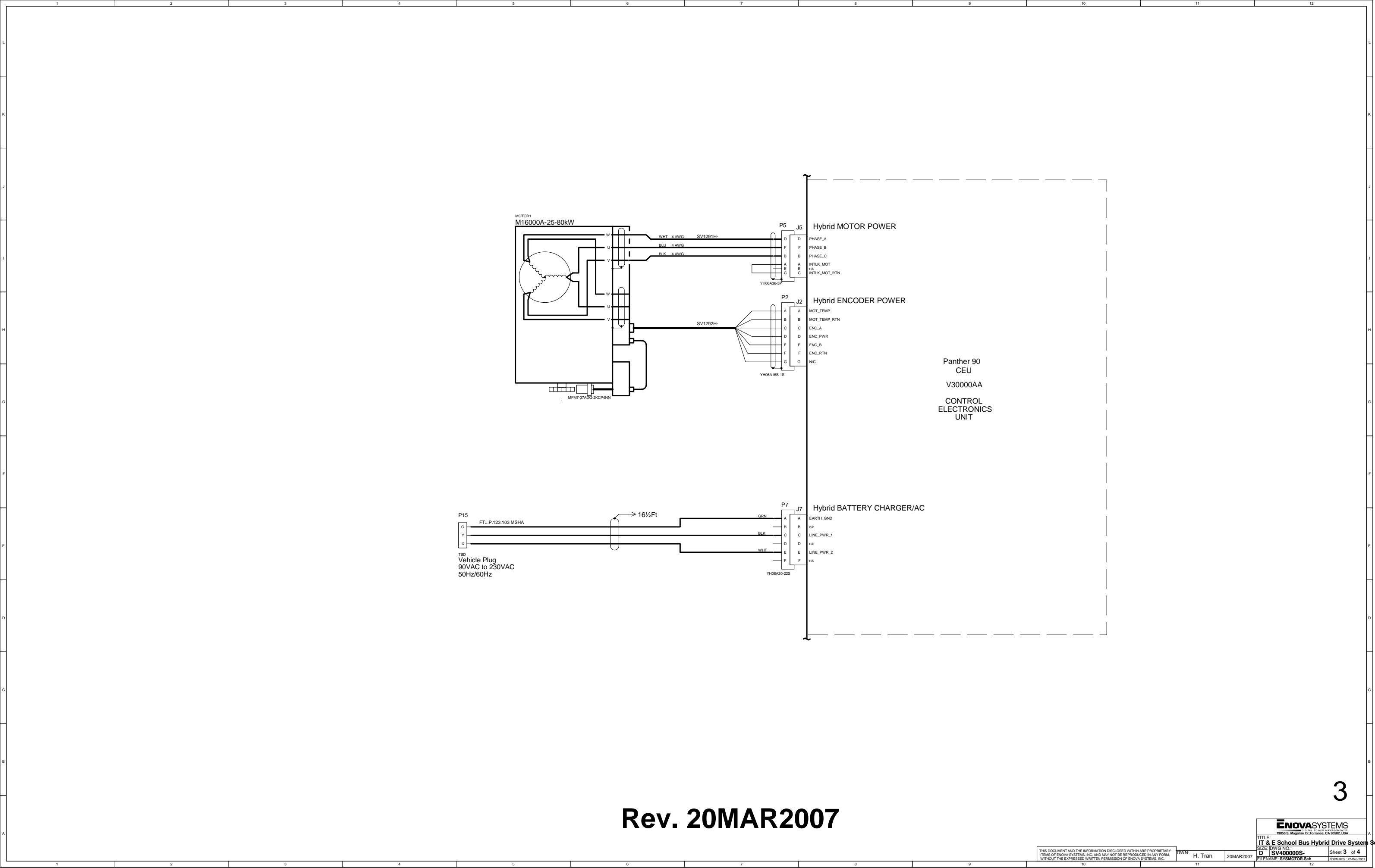
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Additional information on this system can be obtained by visiting: <http://www.enovasystems.com>

Advanced Energy Hybrid School Bus Drive System Schematic

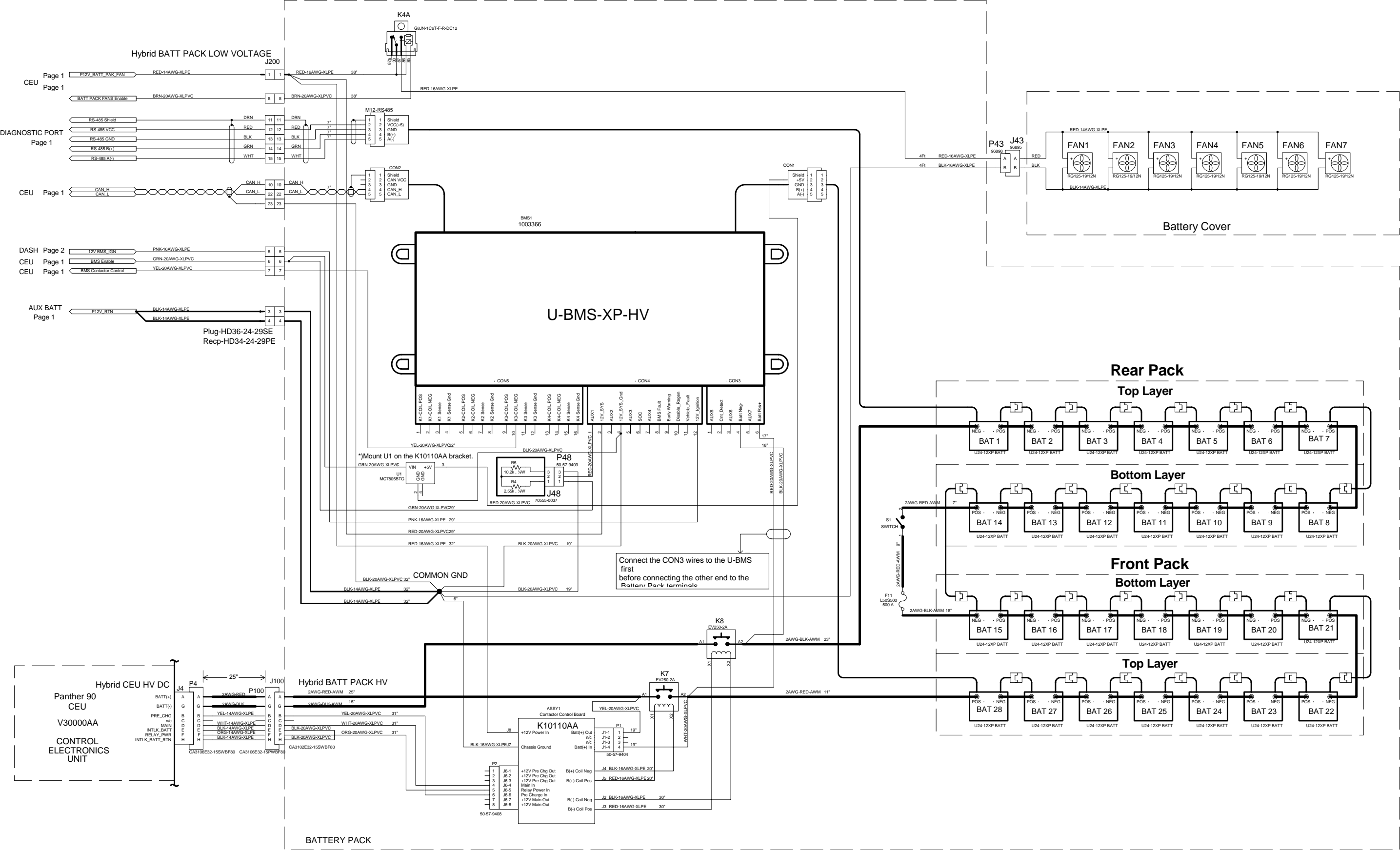
COMPONENT/VEHICLE Interface





Rev. 20MAR2007

Typical Multiple Battery Boxes & U-BMS Interface Configuration & High Voltage Distribution.



Rev. 20MAR2007