



SAE J1772™ Update for IWC PHEV WG

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Document Status

◦ **SAE J1772™ UPDATE
FOR IWC PHEV WG**

J1772™ Revision Plan

- Revision to include:
 - Normative
 - Editorial corrections
 - Technical corrections
 - EVSE compatibility test (new Appendix)
 - Informative
 - Charging configurations and ratings definitions
 - Illustration of Combo coupler
 - Reference to PLC communications for DC charge control

J1772™ Revision Plan

- Document went to formatting October 24
- Once formatting is complete, the document and comments will begin a 28 day Motor Vehicle Council (MVC) ballot

DC Fast Charge
Standardization

◦ **SAE J1772™ UPDATE
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SAE J1772 DC Status

- Workgroup meetings began 9/9 to begin revising J1772 to include DC
- Workgroup meeting approximately every 2 weeks
- State and sequence diagrams moved from J2847/2 to J1772
- In addition to DC, additional Control Pilot clarifications are proposed including specified transitions for unexpected EVSE or vehicle responses

SAE J1772 DC Status

- Ballot targeted for 1Q2012 in addition to the following documents:
 - J2847/2 - Communication Between Plug-in Vehicles and Off-Board DC Chargers
 - J2931/4 - PLC Communication for Plug-in Electric Vehicles
 - J2953 - Plug-In Electric Vehicle (PEV) Interoperability with Electric Vehicle Supply Equipment (EVSE)

Combo Type 1 Design Status

- SAE is coordinating efforts to tool Combo 1 charge couplers
- REMA and Korea Electric Terminal (KET) are the suppliers involved in the effort.
 - REMA
 - Design includes vehicle inlet lock feature and rear wire dress options
 - Audi/VW, BMW, Ford, GM, Honda, Toyota and TARDEC participating
 - Vehicle inlet and connector available January 2012
 - KET
 - Design is based on a GM design without modifications.
 - Design includes vehicle inlet lock feature but GM is not offering the lock design to others therefore this option does not include vehicle inlet lock feature.
 - Vehicle inlets are available, connectors available December
 - KET design will be submitted for standard interface related UL2251 testing

Combo Type 1 Design Status



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Other Items

- **SAE J1772™ UPDATE
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North American EVSE Product Safety Standard Harmonization Effort

- ANSI Electric Vehicle Standards Panel (EVSP) identified the fact that Canada and Mexico currently do not have product safety standards similar to UL 2231, 2251 & 2594
- Workgroups were formed to create harmonized standards using the UL documents as the baseline
- Draft harmonized standards are to be available in January

China Update

- AC draft standard includes two incompatible methods for AC charging
- One is similar to SAE/IEC the other is unique and requires CAN communications
- Latest information is that the next draft will only have a single AC standard that is similar to SAE/IEC
 - How the latest draft will vary from SAE/IEC is unclear