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# **JK V8 HEMI® BUILDER KIT**

## **Manual to Automatic Transmission Conversion**

### **Installation Guide**

5.7L & 6.1L HEMI  
2007 - 2009 JK



These instructions are written for all 2007-2009 Jeep JK (LHD) converting from a six speed manual to the 5-45 Automatic Transmission used behind 5.7 and 6.1L V8 HEMI's. There are two basic components to the swap, the physical part changes which are listed in the Mopar Bill Of Materials (BOM) and must be installed according to the factory service manual. The second part of the conversion involves the wiring. There is one wire on the body side of the headlamp to dash harness that must be re-assigned by changing the location in two connectors and one wire that must be added. AEV Part #31001027AA consists of one wire with the proper terminals and seals already installed.

To Re-assign the backup lamp wire from the manual transmission to the automatic:

- Locate C100 (34way/Black) at the rear of the engine compartment. Separate the connector and remove the white terminal lock from the female side of C100. Locate the GR/WT wire on the body side of C100 cavity 29. Change C100, cavity 29 to C100, cavity 21.
- The other end of this GR/WT wire is located under the TIPM in connector C1 (50 way/Grey), cavity 7, move it to C1 cavity 10.

To install AEV Part #31001027AA:

- Locate C100 (34way/Black) at the rear of the engine compartment. Separate the connector and remove the white terminal lock from the female side of C100. Insert the side of AEV Part #31001027AA with the large cable seal into cavity 25 of C100. Reinstall the white terminal lock.
- Route the wire through the existing convolute across the firewall and over to the TIPM. Insert the other side of AEV Part #31001027AA into cavity 26 of TIPM C2 (26 way/Blue).



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## COMMENTS OR QUESTIONS?

### **American Expedition Vehicles**

Phone: 406.251.2100

Email: [tech@aev-conversions.com](mailto:tech@aev-conversions.com)

Website: <http://www.aev-conversions.com>