

Engineer

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PHEV Conversion Kit User Guide

For 2005 - 2010 Escape Hybrid



- Installation by a trained specialist is strongly recommended
- High Voltage (HV), Direct Current (DC) Warning: Traction battery packs, motors, chargers, and other HV sources could cause serious injury or death if proper precautions are not taken while working on or around them. Establish a safe working perimeter around the vehicle or HV and maintain safe working conditions within the perimeter.
- Please note anyone attempting to install this conversion kit and modify a vehicle is doing so at their own discretion and risk.
- Warrantee: In performing some of these modifications it is possible, though unlikely, to void the vehicle's manufacturer warranty. Please check with your original vehicle manufacturer / dealer for confirmation
- This is a patent pending technology.

1. Form the wiring together so that the cover fits over the assembly and reattach the two 13 mm nuts. Leave the cover loose at the plug end at this time.
2. Remove the black foam spacer behind the seats and cut a 1"x1" slot in the bottom corner nearest the hybrid pack. Route the PHEV wire in the slot created.
3. Pull the driver's side seat bottom forward and tilt the seatback forward to expose the control wiring plug C4227A on the opposite side of the hybrid pack.
4. Find the wire in position #19, Light Green with a yellow stripe for pre 2008 models or Grey with a Yellow strip on 2008 or later models. Splice the Green 12VDC ignition signal wire from the PHEV dashboard switch assembly into the wire using an automotive wire splicer.
5. Connect the Brown wire from the PHEV dashboard switch wire assembly to the vehicle body ground.
6. Run the phone cable from the PHEV dashboard switch to the driver's side of the hybrid battery pack under the plastic channels near the door.
7. Feed the PHEV HV wire and phone cable next to the battery pack and up near the cooling channel for the hybrid pack on the driver's side.
8. Move the Enginer Power Pack onto the rear deck area and secure to the Escape hybrid pack.
9. Connect the HV wires black to black and red to red in the PHEV pack and plug the phone cable into the DC/DC converter next to the LED light.
10. Connect the USB cable from the Enginer display to the BMS box.
11. Connect the 110V AC plug to the side of the Enginer box.



Photo 1 Installing the Enginer Box

This is an example of the detailed instruction guide for installation.

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