Description of Operation

SmartKey (also referred to as keyFob)
The keyfob is a handheld wireless device that the customer carries in order to access the vehicle LF and UHF frequencies The keyFob is a coin cell battery powered device which is user replaceable (CR2032). The keyfob also has a non-accessible rechargeable battery which is used when high current sourcing is necessary for certain key functions. The keyfob has buttons to be used as remote keyless entry into the vehicle communication with the RFA in the vehicle through LF and UHF. The buttons include: lock, unlock, trunk release, lights, alarm, and front hood. The RFA is a base station unit containing the driver circuits that are connected to LF antennas at the vehicle for the passive entry/start functions. These LF transmission functions are activated by switches built into the outside door handles and at the trunk, and by an engine push start switch on the instrument panel. The RFA receives RF responses from the programmed keyfobs for the passive and RKE functions. The RFA is responsible for decrypting the secure encoded messages from the keyfobs.