Description of Remote Start Operation

General Description:

User presses the ENG button on the fob followed by the LOCK button on the fob and (ENG + LOCK) and the Fob sends the Engine Start command (shown in blue). The base station is interrogated and confirms the reception of the command (by sending signal shown in yellow), the Fob will then poll the status of the vehicle for up to 20 seconds by sending the signal(s) shown in brown/red and report either success or failure by displaying an icon on the fob LCD indicating why the operation failed. The length of transmission exchange between vehicle and fob can vary based on when the vehicle engine starts. In some cases or models (Diesel engine etc…), the engine can take up to 20 seconds to start. Typical engine starting time is just over 5 seconds. Therefore, the time it takes for the engine to start is what determines how long those transmissions last. This system is a vehicle security system because it controls and reports lock, unlock, and trunk status in addition to engine starting authorization and status. Under engine start failure condition, all vehicle responses shown in green would contain security status information such as lock, alarm, trunk, and engine start authorization status. A typical engine starting scenario is shown below including RF on-time for each transmission.

In summary, the Basestation Module responds with a 21.5 ms transmission only when interrogated by the Fob. There are no other transmissions emanating from the module.

Typical successful operation: