

Re: Certification for Lear Corporation  
TPM Low Frequency Initiator  
FCC ID: KOBHL05TPM  
IC: 3521A-HL05TPM

## Block Circuit Diagram

### TPMS Functions

The TPM Low Frequency Initiator (LFI), when commanded via the control bus, transmits a modulated command signal to a nearby TPM Wheel Electronic sensor module. The LFI consists of a combination voltage regulator, microprocessor, control bus transceiver, LF driver IC, and integral LF ferrite loopstick antenna. The 125 KHz RF is generated by the microcontroller IC, stabilized by a ceramic resonator. The microcontroller is also responsible for monitoring proper operation of the LF driver IC, interpreting commands on the control bus, and providing command feedback via the control bus. The primary purpose of the LFI is to cause a nearby WE to transmit pressure, temperature and status information upon receipt of the LF command modulated on 125kHz.

