Automotive Vibration Control and Enhancement

for Electric Vehicles

From mimicking an idle feel, throttles and high-speed gear shifts to providing a superior driving experience with premium vibration indicators, this technology is shifting the future of the electric vehicle (EV) experience.

Parker Lord partnered with GHSP, a leading global Tier 1 supplier of electromechanical systems, to bring our Automotive Vibration Control and Enhancement (AVCE) technology into the automotive market. AVCE technology is an all-in-one solution that eliminates vibration in real time, generates global vibration haptic indicators and creates EV vibration enhacements.

Our AVCE technology can also be integrated with acoustic enhancement technology for an immersive experience for the EV driver. With the market moving toward acoustic enhancement technology, the AVCE has potential in not only passenger vehicles, but in commercial e-mobility as well.

Applications:

- Automotive cabin vibration control, including offset of imbalanced engine and masking of road noise or switching events
- Steering column vibration control
- Combustion engine emulation in EVs
- 3D haptic vibration vehicle feedback and experiences and experiences

Key Benefits and Capabilities:

- Customizable vibration profiles, variant options, unique vehicle signatures, mounting footprints
- Specific targeting using force/ frequency modulation
- Scalable system using one to multiple Force Generators
- Highest efficiency (high force, low weight, low power)
- Minimum part count

Circular Force Generator

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