

	GROUP <b>Body Electrical</b>	MODEL <b>All Vehicles</b>
	NUMBER <b>PS443</b>	DATE <b>March 2016</b>
 		
<p align="center"><b>SUBJECT: USE OF AFTERMARKET USB CHARGING CABLES IN USB /12V PORTS</b></p>		

This article provides information regarding the use of USB ports and 12V power outlets to connect/charge mobile phones. Customers may experience issues with their head units that may be related to the use of aftermarket USB charging cables, including;

- Electrical interference and limited or no functionality when attempting to play music, or when charging a device through the USB port
- Excessive static or noise when listening to the audio source
- Malfunctions and screen freeze of the head unit screen
- Slow down of the system response while device is plugged in
- Music will not play from iPhone 5 or 6 with Kia iPod cable and aftermarket adapter
- No or limited functionality when trying to play music from an Apple device

The following three topics are covered in this document:

1. Using phone USB cables to charge and connect devices to play music or for use with features such as Android Auto:
2. Using 12V chargers to charge mobile devices
3. Recommendations for using USB port to play music from iPhone 5 or 6 in older model/year Kia Vehicles.

**1. Using phone USB cables to charge and connect devices to play music or for use with features such as Android Auto:**

- Recommendation is to **always** use the USB charging cable that was provided with the phone or a replacement cable from the phone manufacturer.
- Use of aftermarket USB charging cables is **NOT** recommended.
- Plugging in larger devices, such as iPads and other tablets, is **NOT** recommended as they may draw a higher current when charging (reference PS276) **NOTE: USB devices should always be connected only after turning the engine ON and disconnected prior to turning the engine OFF.**

## 2. Using 12V chargers through the power outlet to charge devices:

- The use of aftermarket 12V charging devices is **NOT** recommended. **Note: use of some 12V socket to USB adapters has been confirmed to cause issues in some vehicles (see page 1).**
- The Recommendation is to **ALWAYS** use the USB charging cable supplied by the phone manufacturer (e.g. Apple, Samsung, etc.) or an approved carrier supplied 12v charging cable (for instance a Verizon branded charger for iPhone products)
- **ONLY** plug in battery equipped electronic devices with reverse current protection or current from the battery may flow into the vehicle's electrical system and cause a system malfunction.
- Any devices plugged in to the 12V charging cable should draw less than 10 amps from the system, when the engine is running.



## 3. Recommendations for using USB port to play music from iPhone 5 or 6 in older MY Kia Vehicles:

- For certain older MY vehicles, Kia offers an accessory OEM iPod cable (P/N: P8620 00000) that is recommended for with some models / head unit platforms. **NOTE: reference TSB General 054 for specific application.**
- Based on testing of some AVN platforms, it is possible to use the official Apple lightning adapter with the Kia OEM iPod cable to obtain functionality in older MY vehicles. However, compatibility is **NOT** guaranteed as those vehicles were designed and manufactured prior to Apple's release of these new phones and Apple continues to release new software for these phones.
- Based on limited testing, use of aftermarket lightning adapters resulted in no, or limited, functionality in the older models and is **NOT** recommended.

