Hybrid and Electric A/C Systems

Global Parts Distributors, LLC

TECH TIP

#79

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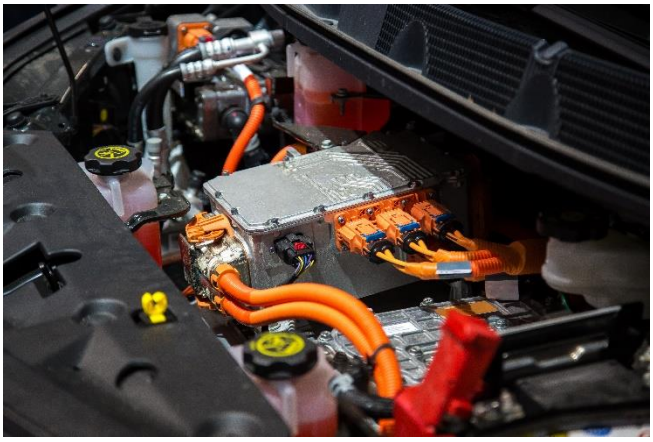
Hybrid and electric A/C system can generally be identified by a bright orange cord. It is important to follow hybrid/electric service protocols and disconnect all electrical components prior to service.



Hybrid and electric systems are easily identified by a bright orange cord.

Hybrid and Electric Automotive A/C Service Precautions:

- Do not use PAG oil. Hybrid and electric compressors require a non-conductive oil with high dielectric properties. Always refer to the manufacturer's specifications for proper oil requirement. PAG oil is hygroscopic, which means it attracts moisture. Using PAG oil in a hybrid or electric system will damage the compressor and interrelated components. Refer to gpd Tech Tip #132 "What happens if you use PAG oil in a Hybrid Compressor".
- Do not use the same charging equipment for hybrid and electric vehicles and traditional combustion engine vehicles. Using the same charging equipment increases the risk of cross-contaminating oil types.
- Take caution with dyes. Most dyes on the market are not compatible with hybrid systems.
- Do not flush without referring to the manufacturer's specifications. Some hybrid electric vehicles cannot be flushed.

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R1234yf Hybrid Oil

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R134a Hybrid Oil