2004 and newer Toyota and Lexus Hybrid models are equipped with High-Voltage Three-Phase Alternating Current Air Conditioning Compressors, which have specific safety and service requirements.

Electrically-driven A/C systems safety precautions, system operation, component replacement, service instructions, and unique system features and requirements are published in model-specific Repair Manuals that can be accessed through the Toyota Technical Information System (TIS) (www.techinfo.toyota.com).

Collision Repair Professionals should be aware of the following system characteristics:

- Orange colored High-Voltage wiring is connected to electrically-driven A/C compressors (see photo below).
- Electrically-driven A/C compressors have no drive belt.
- Electrically-driven A/C compressors require special ND-11 lubricating oil.
- Underhood A/C system decal specifies use of ND-11 oil (see decal/label below).
- Use ONLY ND-11 lubricating oil because of its electrical insulating characteristics.
- Avoid oil cross-contamination during evacuation and refrigerant charging by using hoses designated for ND-11.
- Cross-contamination and the use of incorrect lubricating oil can set Diagnostic Trouble Codes (DTC), and cause damage to the electrically-driven compressor.