











This Dorman Lunch and Learn will cover all the components of the R1234yf air conditioning system along with step by step instructions of how to test, recover, evacuate, recharge and add oil/dye to the system. We will have a R1234yr machine connected to a vehicle and provide you with the dos and don'ts when performing system service and repair. At over \$50.00 a pound you don't want to guess but rather test and get the job done right the first time. Today's vehicles are more involved so it's important to use a proper diagnostic approach.



























A/C Machine R1234yf



R1234yf is the new refrigerant that is used in many new vehicles with more to come. The new SAE standard for the R1234yf machine has a built in Identifier to make sure that only the correct refrigerant is recovered from the correct vehicle. A vehicle VIN maybe required to make sure that the machine is attached to the correct vehicle.

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Toyota Compressor Flow Sensor

This Hall Effect sensor fails when it reads over 3.7 volts. That will prevent the A/C amplifier sending a request to PCM to turn the compressor clutch on.



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Dorman Products Part # 926-818







A/C System Diagnostic App - Mantooth

There are two wireless pressure transducers and a wired temp probe for each transducer (Low & High side) connected. The system is designed to provide the technician with a quick assessment of refrigeration loop performance while documenting it. For example; Complaint A/C not working properly, and the performance numbers look good, you can bet the problem area is the firewall back.





Expansion Valve System Pressure Diagnostics		
Low-Pressure Gauge	High-Pressure Gauge	Action Required
IN RANGE	IN RANGE	NONE - A/C is working properly
LOW	LOW	Add Refrigerant
LOW	HIGH	Possible blockage of the expansion valve or orifice tube
HIGH	LOW	Possibly faulty compressor
HIGH	HIGH	System is overcharged - Recover refrigerant
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