e-advantage

Is that Compressor Really Cooked?

fter hose leaks, the compressor accounts for the highest rate of failure of any A/C component. The reasons are many, including inadequate voltage to the clutch coil, loss of refrigerant charge, and contamination.

We also see compressors returned that are fully functional—and therefore not warrantable. Before you pull the compressor from the vehicle, take these four steps to confirm that it really is a goner:

- **1.** Is the compressor rotation smooth?
- **2.** Is the coil receiving more than 11.5 volts?
- **3.** Is the coil resistance between 2.8 and 4.4 ohms?
- **4.** Is the compressor capable of producing 350 psig or more?

If you can't produce 350 psig, take the extra step to find out why. The compressor may still be fully functional, but the system may have a low refrigerant charge because of a leak that needs repair, or a high-side blockage that limits refrigerant flow to the compressor.

Testing and properly diagnosing a compressor takes time. But the process is far more efficient while it's still on the vehicle.

Fluid Special Ends September 1

Stock up on A/C system flush and PAG oil by taking advantage of our discount pricing until September 1. Talk to your Red Dot representative or go online to order.

Flush Special

Any time you open an A/C system is a good time to flush it out, which means this time of year shops can always use more flush compound.

CLASSIC FLUIDI NE IMAGENETICALITATIONE IMAGENETICALITATIONE

Take advantage of our special on 79R4650 1-gallon bottle of flush

compound: \$25 a gallon. It's a great item to sell with receiver-driers, compressors, evaporators, and any type of service equipment or accessories.

PAG Oil

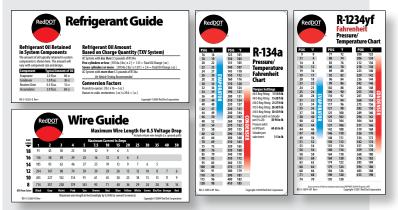
Now's the time to stock up on 8-oz SP15 PAG Compressor Oil at \$ 6.75 each. Order part 79R4580.

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Shop Reference Red Dot Pocket Guides

Get your Red Dot Pocket Guides, our handy laminated reference cards for A/C technicians. There are four in all:

- **Refrigerant Guide** for managing A/C oil and refrigerant charge amounts (RD-5-12561-0P)
- Wiring Guide for determining the voltage drop for different lengths and gauges of wire (RD-5-12560-0P)
- R-134a Pressure/Temperature Chart (RD-5-13053-0P)
- R-1234yf Pressure/Temperature Chart (RD-5-13074-0P)



Talk to your Red Dot representative to order, or visit **www.RedDotCorp.com/resources/reference-files** to view and print your own.

COOL APPLICATIONS Orchard Vehicles Push A/C to Extremes

When you think of extreme offroad conditions, an almond grove hardly comes to mind. But it should, says Mike Oddo of NVB Equipment in Fresno, Calif.

"In Central California, almond season runs from July through October," Mike

says. "It's 100-plus degrees almost every day." Tree shakers, nut sweepers, shuttle trucks, and other specialized vehicles make the iob more 24v models, it produces 17,700 Btu of cooling from a compact package. Combined with a R-9720 remotemount condenser, it's a tough, reliable, high-performance system that's easy to install and maintain.

The R-2300 can be mounted on the



The JackRunner's tight, low-slung cab demands a compact, durable, high-performance HVAC system.

efficient during workdays that last 16 hours or more.

Most equipment have enclosed cabs, but they're small. Vehicles in almond groves, olive groves, and other orchard operations are built low to the ground to reduce the risk of knocking off tree limbs.

The tight interiors make orchard equipment a real challenge, Mike explains. And then you factor in the branches, bumps, ditches, gopher holes, and big impacts over a hot day that can run two shifts or longer.

"The R-2300 ductable heater-A/C unit is a great solution for orchard vehicles," he says. Available in 12v and floor, ceiling, or under the dash. Optional air outlets are available so the air can be ducted wherever it's required. As an installer, these are important options to have.

The R-9720 mounts on any horizontal surface or can be hung below a roof or floor panel. It opens up on a piano hinge without requiring tools, making it easy to access the coils. "If you have blow dust out of there two or three times a day," Mike says, "you want that job to be as easy as possible."

Got a cool Red Dot application? Let us know: Give your Red Dot representative a call and tell us more.

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