



# e-advantage



## Keeping the SWAT team cool

*Red Dot and Thermo King of Orlando team up to deliver A/C for a Bradley personnel carrier*

**S**WAT team members at the Seminole County, Fla., sheriff's department may be calm and controlled under pressure, but they didn't always feel cool inside their military surplus Bradley M113A2 armored personnel carrier.

The vehicle is perfect for soft, uneven terrain where the tracks can dig in. But with the central Florida heat and humidity, the officers "would just bake inside," says Charlie Brodnax, director of A/C operations for Thermo King of Orlando. "They might have to spend hours waiting out a suspect. For their safety and comfort, the sheriff's department asked us to install air conditioning."

It was a challenge because the Bradley—which typically seats six—is sealed up tight and plated with armor. The engine is an old 6V53 Detroit Diesel for which compressor brackets didn't exist.

Charlie enlisted Red Dot field sales representative Robb Morrison to help design a robust, rugged A/C system.

"All the A/C system components come straight from the Red Dot catalog," Charlie says. "The only things



The Bradley M113A2 has just enough space between the armor plate and the radiator for a 77R0670 (above). Two R7830s blow cold air where it's needed (right).

we fabricated were the compressor mounting brackets and a special pulley for the camshaft at the rear."

To deliver cold air to the officers inside, Charlie and Robb installed R7830 evaporators near the operator's seat and in the main passenger area.

The hard part was mounting the condenser.

"You can't put anything on the exterior because it can get damaged," Charlie says. "But the Bradley has a massive blower to move fresh air into the engine compartment, and there's just enough space between the outside armor and the radiator to mount a 77R0670 condenser."

At 2-1/4 inches high, it's a tight fit. "We were in there with rulers and bent pieces of paper trying to see which condenser would work best," Robb explains. The result is a strong air flow and BTUs estimated at around 30,000.

"The air is ice-cold and the customer just loves it," Charlie says. "They've contacted us about installing A/C in 14 more of these

vehicles for law enforcement agencies around the state. That's how happy the customer is."

Got a great installation story? A unique vehicle application? Talk to your Red Dot field sales representative and tell us about it.

### New Products

We've added two new products to our catalog of replacement parts for commercial trucks:

#### Kenworth Super-duty Serpentine Condenser (black)

Front-mount condenser for 1995-2007 KW T400, T600 tractors.

- OE Part: K122-125
- Red Dot No: 77R6957 RD-5-12488-OP

WD Price	\$157.08
10% off	\$141.37
15% off	\$133.52
20% off	\$125.66

#### Mack All-Models Compressor

Sanden 7H15 (4883), GH head. direct-mount, Poly-6 clutch (125 mm). Fits all on-road Mack models.

- OE Part: 206RD51M, 20514024
- Red Dot No: 75R81622 RD-5-12330-OP

WD Price	\$155.18
10% off	\$142.77
15% off	\$136.56
20% off	\$130.35

## Tech Support



### Red Dot's Answer Man

Mark Williams is one of the voices at the other end of the Red Dot Tech Line, free phone support when you need help specifying or troubleshooting Red Dot products.

In August, Mark will celebrate his 30th year at Red Dot.

"We established the Red Dot Tech Line so distributors and their customers can tap into the knowledge and experience we have here," says Mark, supervisor of warranty and product support.

He manages the Red Dot Tech Line with Frank Burrow, who has been with Red Dot for almost 14 years.

"Mark and I field questions from WDs, technicians, and end-users alike," says Burrow. "We see this as an important part of product support."

To reach the Red Dot Tech Line, call your customer service representative and he or she will patch you through. If you reach an automated attendant, press **7**.

## EPA Honors Red Dot

**W**e're proud to tell you that Red Dot has received the 2007 Climate Protection Award from the U.S. Environmental Protection Agency. It's the EPA's highest honor for leadership and technical achievement in reducing greenhouse gases. Red Dot vice president Gary Hansen accepted the award on May 1 in Washington, D.C.



The Climate Protection Award recognizes our research and commercialization of low-global warming potential (GWP) refrigerants in future HVAC systems.

"Knowing that 134a will eventually be phased out, we started researching alternatives that would be environmentally friendly and deliver the performance, value, and reliability you need in commercial vehicles and equipment," Gary says.

Red Dot introduced the first off-road A/C system to use HFC152a, a refrigerant commonly known as an aerosol propellant. Our work with 152a showed it can reduce refrigerant greenhouse gas emissions by 93% to 98% compared to systems using 134. It also can be used in commercial vehicles and heavy equipment without significant design changes or compromised performance.

"Today, we continue to work on solutions that use 152a as well as other next-generation refrigerants," says Gary. "It's better to be at the forefront with research that influences policy instead of having to react it."

## Red Dot FAQ: Where can I find more detailed technical documentation and service manuals?

Go to [reddotcorp.com](http://reddotcorp.com), click on "products" and then "off-the-shelf units" or "replacement parts." Clicking on our catalog cover opens our online reference area, which includes the entire contents of our 2007 All-Makes Parts catalog, our service training manual, exploded product views, wiring schematics, and other technical documentation. This information is also available on CD. Ask your Red Dot representative for a copy.



## Customer Service: Contact Us

### AFTERMARKET SERVICE

**Bill Jewell – 206-574-6566**  
[BillJewell@reddotcorp.com](mailto:BillJewell@reddotcorp.com)

**Craig Alexandre – 1-866-366-3811**  
6:30am - 3:15pm Monday - Friday  
[CraigAlexandre@reddotcorp.com](mailto:CraigAlexandre@reddotcorp.com)

**Cindy Campbell – 1-888-846-7556**  
7:30am - 4:15pm Monday - Friday  
[CindyCampbell@reddotcorp.com](mailto:CindyCampbell@reddotcorp.com)

**Wendy Coore – 1-800-364-2696**  
7:00am - 3:45pm Monday - Friday  
[WendyCoore@reddotcorp.com](mailto:WendyCoore@reddotcorp.com)

**Judy Paty – 1-800-364-2716**  
6:30am - 3:15pm Monday - Friday  
[JudyPaty@reddotcorp.com](mailto:JudyPaty@reddotcorp.com)

**Adrienne Saunders – 1-800-364-2708**  
7:45am - 4:30pm Monday - Friday  
[AdrienneSaunders@reddotcorp.com](mailto:AdrienneSaunders@reddotcorp.com)

All times are in the Pacific Time Zone

### WARRANTY & PRODUCT SUPPORT

**Frank Burrow**  
**206-394-3501; 206-849-8816 (cell)**  
8 am–5 pm, Monday–Friday  
[FrankBurrow@reddotcorp.com](mailto:FrankBurrow@reddotcorp.com)

**Mark Williams**  
**206-575-3840 x3339; 206-979-3763 (cell)**  
6:30 am–4:15pm, Monday–Thursday  
6:30am–10:30am, Friday  
[MarkWilliams@reddotcorp.com](mailto:MarkWilliams@reddotcorp.com)

**Colleen Bowman, 206-575-3840, x3631**  
6:30am–5:15pm, Monday - Thursday  
[ColleenBowman@reddotcorp.com](mailto:ColleenBowman@reddotcorp.com)

**Ann Channer, 206-575-3840, x3632**  
6:30am–5:15pm, Monday–Thursday  
[AnnChanner@reddotcorp.com](mailto:AnnChanner@reddotcorp.com)

**Laurel Sundlie, 206-575-3840, x3635**  
6:30am–5:15pm, Monday–Thursday  
[LaurelSundlie@reddotcorp.com](mailto:LaurelSundlie@reddotcorp.com)

**Mary Wolfe, 206-575-3840, x3633**  
6:30 am–5:15 pm, Monday–Thursday  
[MaryWolfe@reddotcorp.com](mailto:MaryWolfe@reddotcorp.com)