

## Care and Repair Tips for Your Customer's Air Conditioning and Engine Cooling Systems

A guide for professional service and repair for automotive technicians on mobile A/C and engine cooling systems.

LANSDALE, PA (PRWEB) March 6, 2004 --April is National Car Care Month and the beginning of the air conditioning season in many parts of the country. Are your customerÂ $\Box$ s A/C and engine cooling systems up to the long hot summer challenge?

## Air Conditioning System

If the system is operating properly there is no need to have the system serviced. The refrigerant doesn $\hat{A} \Box$ t need to be cleaned or  $\hat{A} \Box$ refreshed $\hat{A} \Box$  and vehicle and A/C system manufacturers do not recommend the addition of other chemicals or so-called performance enhancing additives to the system. When in doubt about using another type of refrigerant or chemical additive, consult the vehicle  $\hat{A} \Box$ s service manual.

Anything other than the OEM recommended chemicals may void vehicle or parts warranties or cause a part to fail.

When repairs are needed, be well informed in advance. Every technician and mechanic performing A/C repairs is required by the U.S. Federal Clean Air Act of 1990 to have passed a certification test.

To reduce environmental damage from refrigerants, the U.S. Environmental Protection Agency has listed several refrigerants as acceptable for use in mobile air conditioning systems. However, only two are tested and approved by all vehicle manufacturers for use in their mobile A/C systems.



Vehicles made before 1994 most likely contain CFC-12 (R-12), a chemical that has been phased out of production because it depletes the stratospheric ozone layer that protects the earth against harmful ultraviolet radiation. Newer vehicles, after 1994, use HFC-134a (R-134a), which is less damaging to the atmosphere.

Older air conditioning systems can be switched over  $\hat{A} \Box \hat{A} \Box$  retrofitted $\hat{A} \Box \hat{A} \Box$  to the newer chemical, but the change may be expensive and may require replacing components in addition to installing the new refrigerant. Although retrofitting is not required by law in the U.S. and the availability and use of R-12 is still permitted if the system is in good condition, a retrofit may prove worthwhile if expensive repairs are needed on an older vehicle.

All vehicle manufacturers and the Mobile Air Conditioning Society offer detailed technical information to service professionals on how to properly diagnose, repair and recycle refrigerants to minimize emissions and improve air conditioning performance.

Informed consumers can help reduce atmospheric pollution while keeping their cool during the hot summer months.

## **Engine Cooling System**

When the A/C is operated, there is additional load placed upon the engine and engine cooling system. To prevent overheating the engine during operation of the A/C system, the engine cooling system fan(s) must be properly operating and coolant level must be correct.

If the coolant level is low it should be replenished. However, the days of just adding some green coolant are over. Today, the coolant is chemically different for many vehicles. Keeping a cooling system in chemical balance requires the proper coolant. The wrong coolant could result in costly coolant system and engine repairs.

Today there are many different colored coolants to help identify what  $\hat{A} \Box s$  in the system. And not only is the proper coolant required, but also the proper mixture of coolant and water.

To achieve long-life engine coolant chemical stability, follow the vehicle manufacturer recommended service procedures.

Founded in 1981, the Mobile Air Conditioning Society (MACS) is the leading non-profit trade association for the mobile air conditioning, heating and engine cooling system segment of the automotive aftermarket. MACS represents 1600 members in North America and 47 countries around the world, and provides information and services to more than 60,000 industry shops, suppliers and technicians. The Society serves the industry through informational tools, self-paced educational materials, leader-led training clinics, advocacy and other member services. Since 1991, MACS has assisted more than 600,000 technicians to comply with 1990 Clean Air Act requirements for certification in refrigerant recovery and recycling to protect the environment. To learn more about MACS Worldwide and the upcoming 25th annual Convention and Trade Show, Â□Now is the TimeÂ□ to be held February 1-3, 2005 at the Las Vegas Hilton, visit our website at <a href="https://www.macsw.org">www.macsw.org</a>



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