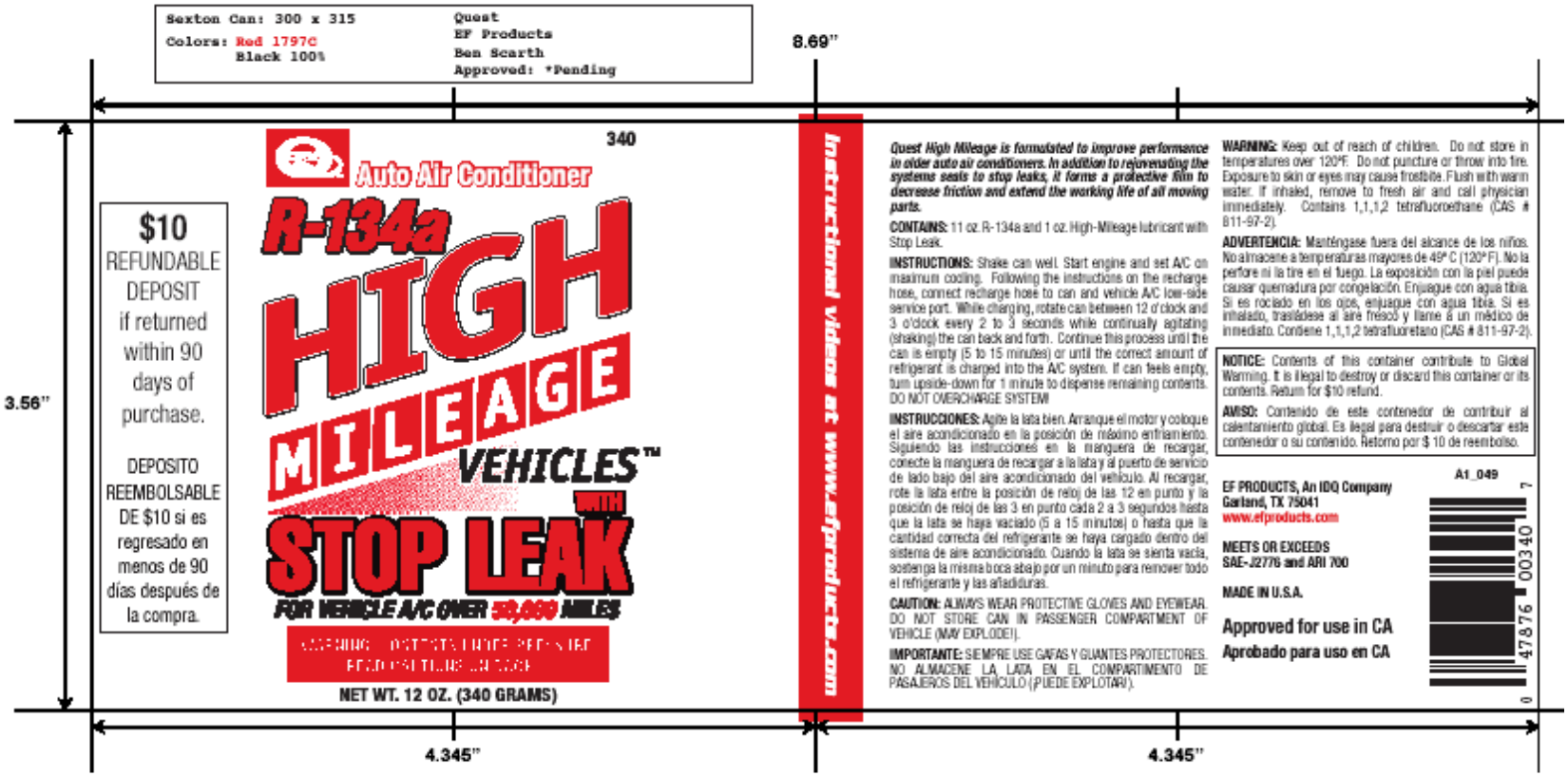
Appendix E

Examples of Labeling and Education Materials

1. Example of a New Label on Small Container

EF Products SKU # 340: Quest 134a High Mileage Refrigerant w/Stop Leak

(not printed to correct dimensional scale)



BACK PANEL COPY:	BACK PANEL COPY:
Header (Description) -	**Instructions -**
Font Face: Helvetica Neue LT 57 Condensed	Font Face: Helvetica Neue LT 57 Condensed
Font Face Style(s): Bold Oblique	Font Face Style(s): Regular, Bold
Font Size: 6.5 point (at 90% width, 100% height)	Font Size: 6.5 point (at 90% width, 100% height)

2. Example of Educational Brochure Content

Side 1 / Left Panel (folds inside)

Be AWARE... < Stylized / icicles >
and...
Follow these simple steps:

The State of California has determined that R-134a, the refrigerant used in your car's A/C system, causes Global Warming.

Effective January 1, 2010, California law requires all purchasers of small containers of refrigerant marked for deposit and return to pay a $10.00 per container deposit at time of retail purchase and **return all purchased, used containers for recycling within 90 days** to the retailer where purchased for a $10.00 per container refund with valid proof of purchase.

It is illegal to destroy or discard used or unused small refrigerant containers under Section 95360 of the California Code of Regulations.

A/C Recharging is fast & easy!
Helpful tips while recharging:

- Check for and repair leaks before recharging.
  - Using a gauge ensures proper fill levels
- Don't overfill/overcharge the system...too much refrigerant can damage your A/C system
- Check vent temperatures while charging. Cooler air should result as you're adding refrigerant.
- If you have added a can of refrigerant and are not getting cooler air...STOP...see a professional! You may have leaks requiring repairs to the system.

Side 1/ Center Panel (outside back cover)

Be COOL... < Stylized / icicles >
but...
Be RESPONSIBLE!

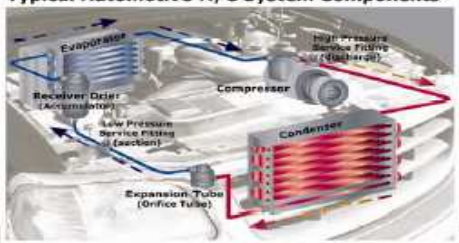
DID YOU KNOW?

- Not long ago, R-134a was designated as a greenhouse gas, meaning it contributes to global warming if released to the atmosphere.

YOU SHOULD KNOW...

- The mobile A/C industry is working on long-term replacements for R-134a. Until then, we join the State of California in the following measures to ensure proper, responsible use:
  - Effective January 1, 2010, on appropriately marked containers, an instant $10 California deposit and return program will begin.
  - Returned, used containers will be recycled to recover remaining refrigerant.
  - In California, It is illegal to destroy or discard used refrigerant cans or their contents.
  - A new, self sealing valve on cans of R-134a will help you avoid accidental discharges of this global warming gas.
  - Better product instructions and education resources will help you do the job properly.
  - An informational website is available for you at www.staycoolcalifornia.com.

Typical Automotive A/C System Components*



*Automotive A/C systems may vary from one application to another. Consult owner's manual for system specific information.

Side 1/ Right Panel (outside front cover)

< Background graphic: Green fields / open road >

The Do-it-Yourself Guide to
Proper A/C System Recharging

Side 2 / Left Panel (inside left) *Side 2/ Center Panel (inside center)* *Side 2/ Right Panel (outside right)*

DO-IT-YOURSELF

1. **ALWAYS WEAR INSULATED GLOVES & SAFETY GLASSES.**
2. **IF SYSTEM REQUIRES RECHARGE MORE THAN ONCE A YEAR,** diagnose and repair leaks **before** adding refrigerant.
3. **READ THE LABEL** and prepare by understanding the instructions.
4. **PREPARE YOUR TOOLS,** as specified on the product label. Lay out the proper charging hose, gauge, safety gear and hand tools in an accessible place.
5. **IF NOT PREASSEMBLED, ATTACH CHARGING HOSE TO REFRIGERANT CAN,** following hose or can instructions.
6. **LOCATE A/C SYSTEM NAMEPLATE** in the engine compartment. **NOTE THE COMPLETE SYSTEM CHARGE VOLUME.** For optimal cooling, **NEVER EXCEED MAX CHARGE.**
7. **LOCATE YOUR VEHICLE'S LOW SIDE A/C SERVICE PORT** and remove the blue or black protective cap. It's a "SNAP"; the charging hose will only fit on the low-side port.

STEP-BY-STEP GUIDE FOR A/C RECHARGE

8. **START THE ENGINE,** turn on the A/C to maximum cooling, the fan switch to high and the temperature dial to full blue. Set the engine to approximately 1500 RPM.
9. **ATTACH QUICK CONNECTOR TO LOW-SIDE PORT** by pulling back connecting ring or snapping into place. Check to assure it is securely locked.
10. **DIAGNOSE A/C SYSTEM BEFORE ADDING REFRIGERANT** using a charging hose with a gauge, an electronic meter or manifold gauge set. Compare gauge reading to the chart below. If pressure reading is below chart range, you may add refrigerant.

    NOTE: Pressure can only be taken when compressor is running. Determine by looking at the center of compressor pulley:
    - If rotating, it's on.
    - If it will not engage, add a can of R-134a.
    - If compressor still won't cycle on, seek professional service advice.

Air Conditioner needs to be set on MAX COOL and compressor must be engaged (cycled on - clutch turning) in order to take an accurate pressure reading with the gauge.

11. **ADD REFRIGERANT** by opening dispensing valve or pulling the trigger, as shown in the charging device's instructions.

DO-IT-RIGHT

12. **WHILE CHARGING, HOLD CAN UPRIGHT, AGITATING FREQUENTLY USING A "12 O'CLOCK TO 3 O'CLOCK MOTION".** It takes 5 to 15 minutes to dispense a can of refrigerant. Check pressure gauge every minute, per instructions. Agitate the can!
13. **REPEAT STEPS 11 & 12 AS NEEDED,** until correct pressure is reached or can is empty. **NOTE:** When can feels empty, turn upside down for 1-minute to remove entire contents.
14. **A PROPERLY CHARGED A/C SYSTEM** will not only read at the correct gauge pressure but air exiting all interior vents should be the same approximate cooled temperature. For optimal cooling, DO NOT OVERCHARGE!

Ambient temperature refers to the outside air temperature surrounding the vehicle. The chart shows the desired range for the low-pressure side of the A/C system at each 5° increment. If the pressure is outside of the range (over or under), service may be required.

If Ambient Temperature is: (Temperatura de Ambiente)	Low Side Gauge Should Read: (Manometro de Lado Inferior)
65°F (18°C)	25-35 psi (172-241 kPa)
70°F (21°C)	35-40 psi (241-276 kPa)
75°F (24°C)	35-45 psi (241-310 kPa)
80°F (27°C)	40-50 psi (276-345 kPa)
85°F (29°C)	45-55 psi (310-379 kPa)
90°F (32°C)	45-55 psi (310-379 kPa)
95°F (35°C)	50-55 psi (345-379 kPa)
100°F (38°C)	50-55 psi (345-379 kPa)
105°F (41°C)	50-55 psi (345-379 kPa)
110°F (43°C)	50-55 psi (345-379 kPa)

15. **REMOVE QUICK CONNECT FROM LOW-SIDE PORT** by pulling connector ring back and straight up from service port. Replace protective cap on Low-Side Port.
16. **REMOVE EMPTY CAN FROM CHARGING HOSE** unless permanently attached.
17. **RETURN ALL USED CONTAINERS TO THE PLACE OF PURCHASE FOR RECYCLING & REFUND OF YOUR DEPOSIT .**

3. Example of Information Placard

NOTICE

Contents of this container, R-134a, contribute to Global Warming.

It is your responsibility to understand proper re-charging techniques before servicing your vehicle's air conditioner. Resources available to you include:

- Product Label Instructions
- Your Store Sales Associate
- "The Do-it-Yourself Guide to Proper A/C System Recharging" brochure
- On the Web: www.staycoolcalifornia.com

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NOTICIA (en Espanol)