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# Accessories



3-In-1 Can Tap Valve Use on: R12, R134a and Oil Charge Cans



R134a Can Tap Valve Screw on design. Gasket assures leak proof operation. Built in safety check valve. Full grip valve handle.



R134a Can Tap Valve Side tap design pierces the can and locks-on with one quick motion.



R134a Recharge Kit Screw on design with hose and quick coupler. Built in safety check valve.



Handi-Cut A/C Hose Cutter Makes quick clean cuts. Cuts R12, R134a, barrier and non-barrier hoses up to 1 1/2" OD. 8731 - Replacement Blade



A/C Ratchet Reversible 9/16",1/2" Hex, and 1/4", 3/16" Square.



**Coil Fin Comb** Cleans and straightens evaporator and condenser coils. Six sided head for 6, 8, 10, 12, 14, and 15 fins per inch applications.



Safety Goggles A must for work with refrigerants and flushing agents. Quality goggles with specially designed vents



**UV Safety Goggles** These are a must for protection against ultraviolet light when using UV light for leak detection.



8781 Refrigerant Hose Gasket Valve Gasket 1/4" 10 per pack



Refrigerant Hose Depressor Valve Depressor 1/4" 10 per pack





8783 Refrigerant Hose Depressor & Gasket 1/4" Valve Depressor and Gasket

3 each per pack



8990 A/C Service Tape 30 Ft. Roll



8930 **Orifice Tube Extractor Kit** Easily removes damaged orifice tubes in Ford & GM vehicles.



A/C Service Manual Covers service procedures for R12 / R134a



1000-DVD

A/C Procedures & Classroom Training DVD - two-disc set

### **DVD Features**

- Trouble Shooting
- Theory & Operation • Component Function
- · System Diagnosis Service procedures

# OOLS-SERVICE ITEM

# Accessories

# **Thermometers**



8723 Dial Thermometer

1 3/8" Face with range: -40° to 160°F



**8724 -** 1 <sup>3</sup>/<sub>4</sub>" Face **8725 -** 1 <sup>3</sup>/<sub>4</sub>" Face

Dial Thermometer with range: 0° to 220°F



**8726 Digital Thermometer**1" Dial Size, Battery Operated, range: -58° to 320°F



Digital Thermometer
.75" Digital Display, Battery Operated, range: -58° to 571°F



Infrared Thermometer w/Target Laser 7/s" Digital Display, Battery Operated, range: -4° to 932°F, 8:1 ratio

8775

**Dual Temp Infrared w/Contact Thermo.** 7/8" Digital Display, Battery Operated, range: -76° to 1400°F, 30:1 ratio

# Flushing Components



8805 - System Flush Kit Includes flush gun, hose, canister, and canister adapter. Uses shop air to propel flush solvent through each component.

8807 - Flush Kit with quart of flush solvent



8806
Replacement Flush Probe w/Tip

8809 Replacement Rubber - Tip Only



Flush Capturing Unit
Unit gives technician the
opportunity to analyze flush debris
as it is being removed.
Collects flush material for reuse or
disposal.



Flush Kit - R12/R134a systems with all oil types Contains: gun, hose, 1 gallon of flush solvent, and complete instructions. Adapts to use with all quick coupler types!

# A/C Flushes

Castrol's A/C Flush is an effective flushing solution that removes debris and sludge from A/C components. The solvency action of Castrol's A/C flush dissolves deposits, is compatible with R12/R134a A/C systems and contains no CFC's. With Castrol's A/C flush, flushing has never been more economical and convenient.

Castrol's lubricant based flush is designed for use with both closed loop flushing machines and pressurized flush guns.

**Lubricant Based Flush** 

**8811A** ...... Gallon **8812A** ...... Quart



# Retro Kits

### R134a PROFESSIONAL RETRO KITS

Castrol's Professional Retro Kits include application specific o-rings, seals, gaskets and lubricant necessary to convert most pickups, vans, and light-medium-heavy duty trucks from R12 to R134a refrigerant. All kits also include OEM approved service ports, SAE retrofit label and retrofitting instructions.

> WHILE SUPPLY LASTS Limited Availablity

8104 8100

CCI York / Tecumseh Ford Products

Sanden / Seltec / ICE Universal Vehicles

8106 GM A6 / R4 / DA6 **GM Vehicles** 



### RETROFIT ASSORTMENT

# R134a Steel RetroFit Starter Assortment

Complete steel fitting assortment, including retrofit labels, schrader cores and port eliminator caps.



5557 5555 5556 5563

# Chemicals and Lubricants

# R134a/R12 POLYOL ESTER OIL

Castrol Synthetic Polvol Ester Lubricant (POE) is specifically formulated for mobile a/c systems. It's unique chemistry allows it to be used in either R12 or R134a systems. For use in factory fill or retrofit applications. Castrol's POE is approved by automotive compressor OEM's and is formulated with a proprietary additive package that requires no different handling, safety or disposal precautions than conventional mineral oil. It is compatible with R12 and R134a refrigerant, Neoprene and HNBR o'rings, and XH5, XH7 and XH9 desiccant. Ester oil is fully miscible with conventional refrigerant oils.

Specifications: ISO Grade: 100

Viscosity@100°F(SUS):500 8201 .....8 oz. Viscosity@40°C(cSt):100 **8202** .....12 oz. Pour Point: -22°F 8203 ..... Quart Flash Point: 491°F 8204 ..... Gallon

Ester Oil - Use when retrofitting system from R12 to R134a and residual amounts of mineral oil are left in the system.



# **JOLS-SERVICE ITEMS**

# Chemicals and Lubricants (continued)

# R134a PAG OIL

Castrol Polyalkylene Glycol Lubricant (PAG) is specifically formulated for R134a mobile a/c systems. PAG oils are more abrasive to the skin than that of Mineral or Ester oils. Special requirements are needed when handling this product. It is compatible with R134a refrigerant only, Neoprene, HNBR, Buna N o'rings, and XH7 and XH9 desiccant. PAG oils and refrigerants are hydroscopic relative to mineral or ester oils and their exposure to air should be minimized in order to avoid excessive water absorption.

Three different viscosity grades of polyalkylene glycol lubricants formulated for R134a A/C systems are available, They meet or exceed OEM specifications.



FORD 10PA SELTEC TM ISO 46 PAG OIL

**8207** ..... 8 oz. **8225** ..... Quart **8226** ..... Gallon

SANDEN GMC
ISO 100 PAG OIL ISO 150 PAG OIL

 8206 ...... 8 oz.
 8208 ..... 8 oz.

 8227 ..... Quart
 8229 ..... Quart

 8228 ..... Gallon
 8230 ..... Gallon

# **R12 REFRIGERANT MINERAL OIL**

A premium quality wax-free, non-foaming compressor oil for all air conditioning systems using *R12* refrigerant ONLY. It is compatible with NBR, Buna N and Buna o'rings and XH5, XH7 and XH9 desiccant.

Specifications: ISO Grade: 100

Viscosity@100°F(SUS): 525 Viscosity@40°C(cSt): 110 Pour Point: -10°F

Flash Point: 360°F



**8240** ..... Quart **8241** ..... Gallon

# **UNIVERSAL A/C LUBRICANT**

Castrol Universal A/C Lubricant is a high quality synthetic lubricant designed for use in all mobile air conditioning systems. It can be used in a/c systems using R12 or R-134a refrigerant.

**8219** ..... 8 oz.



# SW SERIES POLYOL Synthetic Ester Oil



GRADE VISCOSITY

8220	SW20	Thermoking / Carrier Applications
8221	SW22	Recovery / Recycling Equipment Applications
8222	SW32	R12/R22/R502/R114/ MP39/MP66/HP62 Applications
8223	SW68	R12/R22/R502/R114/ MP39/MP66 Applications

# SANDEN R134a PAG SP15 OIL



8166
Dipstick - Sanden
oil level checker

**8248** ..... 8.45 oz.

Compressors. (SP15 replaces SP20)

Used when servicing Sanden Compressors in systems that are charged with 134a. For use with SD 508, 510, 709, 5H14, 7H15

ROSS AIR WORKS WWW.ROSSAIRWORKS.COM 800-290-9798

# Chemicals and Lubricants (continued)

# **VALEO R134a PAG OIL ISO VG 46**



8250A ......354cc

Used when servicing Zexel Compressors in systems that are charged with R134a. For use with DKS 15, 16, 17, 26 compressors.

# **VACUUM PUMP OIL**



8255 ..... Gallon 8256 ..... Quart 8257 ..... 12 oz.

Promotes internal sealing for good vacuum and absorbs unwanted vapor from evacuated units. Regular oil changes promote longer vacuum pump life.

# **POLYOL ESTER OIL** CHARGE



**8210** ..... 4 oz. 8212 ..... 12 oz.

A quick and easy way to add premium lubricant to an A/C system without having to discharge the refrigerant.

# **PAG OIL CHARGE**



8209 ..... 4 oz. PAG 46 (high viscosity) 8215 ..... 4 oz. PAG 150 (low viscosity)

A quick and easy way to add premium lubricant to an A/C system without having to discharge the refrigerant.

# Lube and Seal

# R134a Stop Leak



8217 ..... 9 oz. Aerosol

Premium mineral lubricant specially formulated for use with all A/C systems. Lubricates and seals parts such as o'rings, fittings, compressor shaft seals, and gaskets to assure a safe reliable seal.



8218 ..... 4 oz.

Castrol's stop leak detects and helps to seal most common leaks in R134a A/C systems.

# Big Blue™ Leak Finder





8473 ..... 16 oz. Spray Bottle 8474 ····· 1 Gallon Refill

# Micro Leak Detector Spray Coating

The only bubble/foam indicator capable of detecting freon (gas) leakage down to 0.65 oz. per year.

# Leak Detectors, Dyes and Accessories

# TRACERLINE- Leak Detection



### EZ-Ject™ Leak Detection Kit

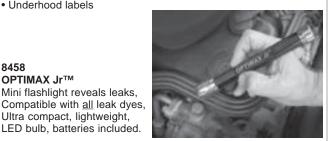
Kit includes:

- Inspection lamp
- Dye injection gun w/R134a hose/coupler w/R12 adapter/fitting
- Dye cartridge universal for all a/c systems
- Dye for all oil-based fluids(1 oz. bottle)
- Leak dye coolant/auto body (1 oz. bottle)
- Plastic case

**OPTIMAX** Jr™

8458

- · Enhancing glasses
- Underhood labels





### EZ-Shot™ Leak Detection Kit

Kit includes:

- Inspection lamp
- Dye injection gun, hoses, couplers for R-12/R134a systems
- Dye cartridge (8oz.) universal for all a/c systems
- Dye cleaner spray bottle (8oz.)
- Plastic case



EZ-Shot™ Injector Used to inject dye cartridges.

8475 ..... 4 oz. 8476 ..... 8 oz.

A/C Dye Cartridges Prefilled and disposable

# Stick Capsules

Ultra compact, lightweight,

Tracer stick is injected into the A/C system through the low pressure valve. The A/C system is then operated to thoroughly circulate the dye in the system. When the refrigerant escapes from the system, it will leave a residual amount of dye at the point of leakage. The ultraviolet light will then locate the point of leakage revealed by a bright fluorescent glow.



# Low Side Small Capsules For 1-2.9 lbs. Refrigerant Systems

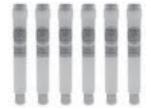
8460	Ester R134a	.03 oz. Capsule	Qty 6 ea.
8460EA	Ester R134a	.03 oz. Capsule	Qty 1 ea.
8461	PAG R134a	.03 oz. Capsule	Qty 6 ea.
8461EA	PAG R134a	.03 oz. Capsule	Qty 1 ea.

# Low Side Large Capsules For 3-4.9 lbs. Refrigerant Systems

8463	Ester R134a	.5 oz. Capsule	Qty 6 ea.	
8463EA	Ester R134a	.5 oz. Capsule	Qty 1 ea.	
8464	PAG R134a	.5 oz. Capsule	Qty 6 ea.	

### **Tracer Stick Capsules**

Disposable capsules come pre-filled with a pre-measured dose of dye suited to the type and amount of refrigerant/lubricant in a system (use multiple capsules for larger systems).



**EZ-Ject Multi-Dose Dye Cartridges** 

8466	Ester R134a	.5 oz. Cartridge	Qty 6 ea.
8467	PAG R134a	.5 oz. Cartridge	Qty 6 ea.
8468	Mineral Oils	.5 oz. Cartridge	Qty 6 ea.

8477 ..... 8oz.

### All-In-One Dye

For gasoline, diesel engine oils, fuel; a/trans., power steering, hydraulic and lubrication fluids.



# A/C Lubricant Enhancer



Typical truck installation (one evaporator) use 1.5 oz. with sleeper unit use 2 oz. (recommended)

- Cold Air Faster
- Reduces Interior Humidity
- Extends Compressor Life
- Increases Heat Transfer Efficiencies
- · Works Year-Round



8301

3.0 oz. Aerosol Can (2 oz. of *ICE* <sup>32</sup> Lubricant Enhancer and 1 oz. of R134a)



8302

8 oz. bottle, non-aerosol (*ICE* <sup>32</sup> Lubricant Enhancer)



8303

1.5 oz. bottle, non-aerosol (*ICE* <sup>32</sup> Lubricant Enhancer)



8304

Aerosol Can Installation Kit Kit includes: Can Tap, Fittings, Gauge, Injector Hose, Instructions



8305

Manual Injector Kit
Fast, Easy and Simple!
Connect injector to the low side
service port of the A/C system.

Uses #8302 or #8303 bottles.



8306 Start Up Kit

Kit includes: All Season consumer brochures sm. (25/pk), Counter Display, Pocket Brochure, Poster, Window Decal



8310

**Toolbox Demo Kit** 



Tit morado.
<ul> <li>3.0 oz ICE32 (8301)</li></ul>
• 1.5 oz ICE32 (8303) 6 Bottles
<ul> <li>Aerosol Injector Kit (8304) 1</li> </ul>
<ul> <li>Manual Injector (8305)</li></ul>
Clear Safety Goggles 1
<ul> <li>Clipboard 1</li> </ul>
Consumer Brochures 2 Packs
<ul> <li>ICE32 Aerosol Video</li></ul>
<ul> <li>ICE32 Installation Forms 2 Pkgs</li> </ul>
<ul> <li>Plastic Tool Box</li> </ul>
<ul> <li>Uei Digital Thermometer 1</li> </ul>
• Under Hood Stickers 2 Sheets
<ul><li>Window Decals</li></ul>

# Leak Detectors, Dyes and Accessories

# Mastercool™ UV Leak Locator Kits



# 8445A - UV LEAK LOCATOR KIT

- FLEXnGLOW™ Compact Kit Design
- Brilliant 12V/50 Watt UV Light
- Compact Professional Dye Injector
- 10 Applications (R12/R134a universal concentrated dye)
- UV Enhancing Safety Glasses
- Dye Cleaner
- R12 Adapter
- 10 Service Info. Labels

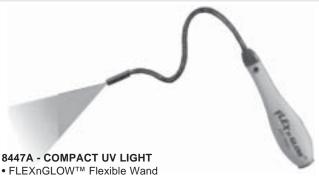
Uses #8470 dye cartridges.



# 8446 - UV LEAK LOCATOR KIT

- FLEXnGLOW™ Light
- R12 Adapter
- 10 Applications (universal concentrated dye)
- 10 Service Info. Labels
- Includes UV Enhancing Safety Glasses
- Mini Dye Injector with Hose/Low Side, R134a Coupler Uses #8470 dye cartridges.

# Mastercool™ UV Compact Light



- Quad UV Light 4 bulbs
- Bright LED Technology
- Rugged Ergonomic Grip
- Includes UV Enhancing Safety Glasses

# Mastercool™ Replacement Dyes



8470 ..... 10 application dye ONLY FITS: 8445A & 8446 injectors. 12 c.c. bottle R12/R134a Dye Cartridge

8471 ..... 25 application dye ONLY FITS: 8445 & 8457 injectors. 25 c.c. bottle R12/R134a Dye Cartridge

# Mastercool™ Cartridge Type Dye Injector



### Dye Injector (Cartridge Type)

Adding dye is fast and easy, simply connect the injector to the low side of the A/C System and twist the handle to the next application line. Replaceable cartridges provide 25 applications of dye that is compatible with R12/22/502 and R134a Systems. The injector hose comes complete with an R134a coupler and a drip free control valve for 1/4 flare systems.

Uses #8471 dye cartridges.

# Leak Detectors, Dyes and Accessories

# Mastercool™ Electronic Leak Detectors



### 8770A

### **Electronic Leak Detector**

An Accurate And Reliable Solution To Electronic Leak Detection

- 3 levels of sensitivity (5 levels of detection)
- · Visual leak level indicator
- Detects leaks as small as 1/4 ounce (7gr) per year
- · Custom molded carrying case

8773 .... Replacement Sensor Tip

### THE INSPECTOR

This new design allows the user to perform electronic and UV leak detection all with one tool. The ultra bright UV light is built into the end of the probe allowing easy access into tight areas. Incorporating both electronic and UV technology into one unit insures that even the toughest leaks can be found.



### 8771

### 2-In-1 Electronic UV Leak Detector

The INSPECTOR offers:

- 6 levels of sensitivity (15 levels of detection)
- Ultra Bright UV/Blue LEDLight
- UV Safety Glasses
- Tri-Colored visual leak level indicator
- Mute function

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- Detects leaks as small as 1/10 ounce (3gr) per year
- Custom molded carring case

8772 .... Replacement LED Bulb 8773 .... Replacement Sensor Tip

# Service Equipment

# Robinair Filters



Quick Change Recycling Filter Flare type for older Robinair Models: 17700A, 34430, 34450, 34700 series



8708 Spin-On Recycling Filter Drier for Robinair Model: 34134K-2K., 17700-2K, 34234, 34300-2K, 34700 thru 34900 series

### 8418

### Portable Recycler - Includes 30 lb. DOT Tank

Recovers and removes moisture, oil and debris from refrigerant. New Recovery System offers a State of the Art 1/2 hp Oil-less Compressor with a built-in High Volume Cooling Fan for fast recovery. Color-coded Sight Gauge identifies when Filter Dryer replacement is needed. Complete A/C Recovery System Unit with built in Oil Separator and Filter Dryer, 30 lb. DOT Tank and Cable, 72" Yellow and Blue Hoses, R134a Low Side Coupler and Oil Purge Bottle

### 8705

R134a 30 lb. Recovery Refrigerant Tank

# Service Equipment (continued)

### 8414 (R134a) Portable Electronic **Charging Stations**

A lightweight, durable, steel frame cart that contains all the necessary tools to quickly and conveniently charge the A/C system. No need for different sized charging cylinders with Mastercool's rugged die cast electronic scale. Simply place the refrigerant cylinder on the scale and charge.



- 2-Way Aluminum Block
- 5 CFM 110v / 60Hz



8750 (R134a) Digital Manifold Set A plastic molded case includes a manifold with a set of 3 -72" hoses and a set of manual couplers.

### <u>SPECIFICATIONS</u>

- Pressure Display: PSI, IN-Hg, BAR, MPa and kg/cm<sup>2</sup> (Low Side Range: 0 - 350 PSI) (High Side Range: 0 - 500 PSI)
- Operating Temperature: 16 42°C (60 108°)
- Battery Life: 50 hours • Idle Mode: 400 hours
- Auto Shut-off: 15 minutes

# Charging Manifolds

### (R134a)

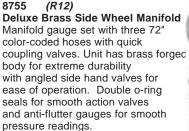
Deluxe Aluminum 4-Way Manifold Manifold gauge set with three 72" color-coded hoses with quick coupling valves. Four-way manifold gauges give you more control over air conditioning service. Four ball valves control refrigerant flow, vacuum and access to the system high and low sides with only a quarter turn. Four-way manifolds attach to service tools and the A/C system once. After that, control everything with a simple quarter turn of the valves.





### 8754 **Deluxe Brass Side Wheel Manifold**

Manifold gauge has three 72" R134a color coded hoses with quick coupling valves. Silicone dampened anti-flutter gauges, extruded aluminum manifold body with easy access hand valves attached to free floating piston valves for smooth and trouble free operation.





(R12/R134a) Dual Brass Manifold Set Manifold gauge has three 72" nylon hoses, standard couplers, tank adapter, and 2 1/2" silicone anti-flutter gauges.



800-290-9798

# R134a Conversion Kit Converts R12 manifold set to R134a.



8416A Accu-Charge Electronic Refrigerant Scale

Features include 15 minute auto-off function, memory function saves last weight when unit shuts off, 176 pound capacity, 60 hour performance on one 9V alkaline battery, compact 9"x9" platform, carrying case, extra large LCD display and reliable membrane keypad switches.

# Replacement Compound Gauges

2 1/2" Diameter



8760 .....R12 High Side Pressure Gauge (Red)

8761 .....R12

Low Side Pressure Gauge (Blue)





8764 ......R134a High Side Pressure Gauge (Red)

8765 ......R134a

Low Side Pressure Gauge (Blue)





8766 ......R134a High Side Pressure Gauge (Red)

8767 .....R134a

Low Side Pressure Gauge (Blue)

# Replacement Charging Hoses with Quick Seal Fittings



**R12** Length 8793 Blue 8794 Red Yellow 8795



# **Charging Hose Sets**



96" Charging Hose Set - R134a 14mm x 1/2" ACME

96" Charging Hose Set - *R12*1/4" Standard hoses with Quick Seal fittings

# **Charging Adapters**



8867 Manual Control Valve 1/4" FFL x 1/4" MFL

8868

Manual Control Valve 1/4"FFL x 13mm



8880 - 14MM Female x 16MM Quick Disconnect (blue - low side) 8881 - 14MM Female x 13MM Quick Disconnect (red - high side)

90° Manual Shut Off Valve - R134a

Includes high/low side quick connector, 7" barrier-type hose and termination shutoff valve to prevent the release of refrigerant trapped in the charging hose.



Manual Shut-Off Ball Valve 1/4" x 1/4" Swivel Ball less hose

(continued)

# Charging Adapters (continued)

GM High Side Service Port

1/4" x 3/16" Female



90° GM High Side Service Port 1/4" x 3/16" Female





8896 **Charging Adapter** 6" Flexible 1/4" x 1/4"



**Charging Adapter** Ford 1/8" High Side Adapter



Access Service Valve 1/2" ACME-M x 1/8" MPT



8900 Schrader Adapter Fitting For installation in drier pressure ports. 3/8" x 7/16"



8904 ...... 1/4" x 1/4" **8905** ....... 1/4" x 3/16"

### Straight Manual Shut Off Valve

1/4" turn ball valve controls the flow of refrigerant. Anti-Blowback fitting automatically shuts off high side charging hose when disconnected from system; no refrigerant loss or finger burns.



8906 Fits All Adapter Kit

Top quality adapters used to hook up to high side of vehicle AC systems for service. Five different adapters, three flexible and two 90°, are included to give full coverage.



**8907** ......... 1/4" x 1/4" 8908 ...... 1/4" x 3/16"

### 90° Manual Shut Off Valve - R12

Manual control valve controls the flow of refrigerant, meeting EPA requirements to contain R12. Attaches to charging hose end.



**Quick Seal Fitting Adapter** Anti-blow back fitting for charging hoses.

8910	1/4" MFL x 1/4" FFL
8911	1/4" MFL x 3/16" FFL
8909	1/2" ACME x 1/2" ACME
8784	Replacement Seal

# Service Adapter Kits and A/C Service Repair Kit



### 8883

# Deluxe A/C Service Repair Kit

Replacement gaskets, depressors, and o-rings for charging hoses and adapters.

Kit Includes:	Part#
• 1/4" Gasket (10 pcs)	8781
• 1/4" Depressor (10 pcs)	
O-Ring for 8913 (10 pcs)	8870
• O-Ring for 8912 (10 pcs)	8871
• Gasket for R134a hose (10 pcs)	8875
• O-Ring for R134a hose (10 pcs)	8876
Gasket for 8909 (10 pcs)	
• Gasket for R12 Shut-off valve (10 pcs)	8882



### 8884

# Universal A/C Adapter Set

Kit Includes:

- 1/4" x 1/4" shut-off
- 1/4" x 3/16" shut-off
- GM 1991 & later service adapter
- 1/4" x 3/16" GM flex
- 1/4" x 1/8" Ford flex
- Ford quick disconnect
- GM & Ford quick disconnect
- GM Large Bore quick disconnect



### 8885

# Safety A/C Adapter Set

Kit Includes:

- 1/4" x 1/4" shut-off
- 1/4" x 3/16" shut-off
- GM 1991 & later service adapter
- 1/4" x 3/16" GM flex
- 1/4" x 1/8" Ford flex
- · Misc. gaskets, valve cores, depressors



### 8886

# Popular A/C Adapter Set

Kit Includes:

- 1/4" x 1/4" shut-off
- 1/4" x 3/16" shut-off
- GM 1991 & later service adapter
- 1/4" x 1/8" 90° shut-off (Ford high side)
- 1/4" x 3/16" shut-off
- Ford quick disconnect
- GM Large Bore quick disconnect

# Oil Injectors



**8737** ...... Oil Injector - R12 **8738** ...... Oil Injector - R134a

Can be used with charging stations or manifold gauge sets to measure and dispense up to 2 ounces of oil.



**8739** ....... Oil Injector - R12 **8740** ..... Oil Injector - R134a

Installs on the low side of the manifold to pull refrigeration oil into the system while under vacuum.



**8741** ....... Syringe Oil Injector - R134a **8742** ...... Syringe Oil Injector - R12

Use to add refrigeration oil to fully charged A/C systems-the fittings connect to the low side access port.

Fill the barrel with the amount of oil needed (levels are clearly marked), connect to the port and press the plunger. A check valve prevents any backflow of refrigerant. Also can be used to inject fluorescent dye.



**8744** ....... Oil Injector - R12 **8743** ...... Oil Injector - R134a

Add oil by allowing vacuum to pull it in after evacuation process or use refrigerant to push it in using the recharge process, measures and dispenses up to 2 ounces of oil.

# R134a Service Couplers



8720

Vacuum Pump Fitting - Retro-Adapter to convert *R12* pumps to *R134a* 



8721

Retro-Adapter 1/4" Female x 1/2" ACME to convert *R12* Pumps to *R134a* 



8722

"T" Style Retro-Adapter to convert *R12* Pumps to *R134a* 



8745

ACME T-Fitting w/o Schrader



8851 .... Low Side Coupler - blue 8850 .... High Side Coupler - red Unique swivel design enables user to access all service ports even in the

tightest applications



8869

R134a Conversion Kit to converts R12 manifold set to R134a.



**Coupler Repair Components** 





**8870** .... 5 guides & 5 o-rings **8871** .... 5 guides & 5 o-rings

**8872** .... 10 o-rings **8873** .... 10 o-rings



**8912** .... Low Side Coupler - blue **8913** .... High Side Coupler - red Compact Service Couplers for *R134a*. New, smaller design for tight quarters.



8894 Straight Adapter, R134a (low side) 13 mm x 1/2" ACME Female



**8895** Adapter Coupler, R134a

1/4" Flare (7/16"-20) x 1/2" ACME

# Springlock Tools and Couplers



8160

Spring Lock Disconnect Tool Set includes four sizes: 3/8", 1/2", 5/8", and 3/4".



Individual Disconnect Tools

8161 .... #6 8162 .... #8 8163 .... #10 8164 .... #12



Springlock Coupling Repair Kits Nylon Construction.

8980 .... #6 (3/8") 8981 .... #8 (1/2") 8982 .... #10 (5/8") 8983 .... #12 (3/4")



8985 R12/R134a Ford Spring Lock O-Ring Kit

Garter springs & O-Rings for all size couplers used on 1981 to present Fords.

# System Guard

# Protect your work with tamper resistant SYSTEM GUARD

- Insures the service dealer that the customer will come back to him for service
- Assure the service dealer that his shop was the last one to work on the system
- Tamper evident seal protects your work
- Reduce unnecessary warranty work
- · Prevent risk of cross-contamination





8776 .....10 Vehicle Kit (Aeroquip Style)



Slide over charge port cap



Heat with heat gun



System is protected

# Compressor Guard

# Prevent compressor loss with A/C COMPRESSOR GUARD

- A suction side screen safely removes debris before it harms a compressor
- · Quick and easy installation
- Maintains OE configuration
- · No hose cutting means no additional leak points
- · Screen available in a variety of sizes



### Complete Kit

8830

Includes 3 extractors, 2 mandrel installers, sizing gauge, 4 ea. of three different screen sizes.

# Replacement Screens

8835 ............ 5 Pack "A" Screens .510 O.D. 8836 ........... 5 Pack "B" Screens .552 O.D. 8837 .......... 5 Pack "C" Screens .595 O.D.



Special insertion tool seats the screen securely in the suction side



Extractor tool easily removes screen from the suction side



The suction screen prevents debris from entering the compressor

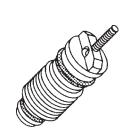
# Schrader Valves & Tools



8914 GM High Flow Large Bore Valve Core 10 per box



**8915** .......R12/R134a **Replacement Valve Core** Standard <sup>1</sup>/<sub>4</sub>" Service port 10 per box



**8916** .........R134a Hi-Flow JRA M6 Valve Core *10 per box* 



8917 ....... R12
Valve Core Removal Tool

8918 ...... R134a
Valve Core Removal Tool



**8919** .......R12/R134a **Universal** Schrader Core Remover



8921 ....... R12
Schrader Valve Rethreading Tool
Cleans and Deburs O.E.
Schrader Ports



8922 .......R134a
Service Port Reamer Tool
Eliminates burrs which nick and
cut coupler o'rings causing them
to leak.



8924 .......R12 Schrader Tool with storage for extra cores, includes 6 cores.



**8925 Eaton M8**13mm SSV High Flow High Side 10 per box



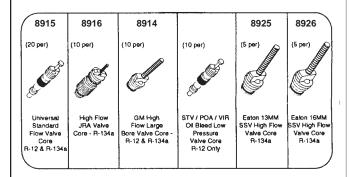
8926 Eaton M10 16mm SSVHigh Flow Low Side 10 per box



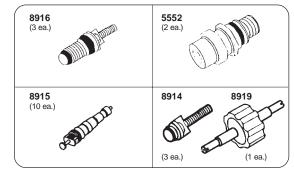
8927 ...... R134a Heavy Duty Core Removal Tool



8936 .......Low Side - R134a 8937 .......High Side - R134a Octagon Service Port Socket Specially designed thin wall sockets for eight sided retrofit adapter.



8938 R12/R134a - Schrader Valve Core Kit



8978 R134a - Valve Core Repair Assortment Kit

# Valve Core Service Tools

### These durable and versatile tools perform three time saving service tasks:

- 1. Removal and replacement of service valve cores without losing system charge.
- 2. Temporary removal of valve cores for quicker, more complete recovery, evacuation, and recharge.
- 3. Calculation of superheat with excellent accuracy by reading refrigerant temperature & pressure from the same location in the system.



### 8931

### Valve Core Remover/Installer

Sturdy ball valve design controls refrigerant flow with 1/4 turn of the valve. Lever position also gives visual indication of whether valve is opened or closed.



### 8932

### Valve Core Remover/Installer with Access Port

Temporary removal of service valve core eliminates the restriction it creates and provides full flow of refrigerant and vacuum during recovery, evacuation, and recharge saving valuable service time.



### 8933

### **Superheat Determination Set**

Special Valve core remover/installer adapter allows replacement of damaged or faulty service valve cores without discharging the system. Valve replacement no longer requires time consuming refrigerant recovery. Calculation of superheat with excellent accuracy by reading refrigerant temperature and pressure from the same location in the system.



Includes special R134a service port adapters



### 8935

# GM Large Bore Valve Core Remover/Installer Includes 1/4" x 3/16" adapter and 1/4" x 1/8" adapter.

# Valve Core Service Tool Kits



### 8950 ......R12/R134a Universal Master Kit

- Valve Assembly
- R134a high side 16mm connector
- R134a low side 13mm connector
- 1/4" FL swivel connector
- Standard valve core remover/installer assembly
- GM large bore valve core remover/installer assembly
- JRA R134a valve core remover/installer
- Eaton R134a low side valve core remover/ installer
- Eaton R134a high side valve core remover/ installer
- Adapter <sup>1</sup>/<sub>4</sub>"-M x <sup>3</sup>/<sub>16</sub>"-F high side GM/Ford
- Adapter 1/4"-M x 1/8"-F high side Ford



# 8951 ...... R134a

# Standard & JRA (M6) Valve Core Kit

- Valve Assembly
- Standard R134a valve core remover/ installer assembly
- R134a high side 16mm connector
- R134a low side 13mm connector



# **8952** ...... R134a

# Eaton (M8 & M10) Valve Core Kit

- Valve Assembly
- Eaton R134a low side valve core remover/ installer
- Eaton R134a high side valve core remover/installer
- R134a high side 16mm connector
- R134a low side 13mm connector

# Vacuum Pumps

PART#	No. of Stages	Free Air Displacement	Ultimate Vacuum	Pump Speed	Motor	Elec. Specs.	Weight
8709	2	1.5 cfm	50 microns	1/6 hp	3450 rpm	110V/60 hz	12 lbs.
8710	1	2 cfm	70 microns	1/3 hp	1725 rpm	110V/60 hz	28 lbs.
8711		1.3 cfm	Air Operated - Requires 4.5cfm/90psi shop air				
8712	2	5 cfm	25 microns	1/3 hp	1725 rpm	110V/60 hz	32 lbs.
8713	2	7.5 cfm	25 microns	1/2 hp	1725 rpm	110V/60 hz	34 lbs.

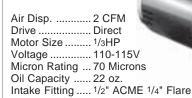
1.5 CFM Two Stage Vacuum Pump Multi-refrigerant compatible. Works with R12 & R134a.

Air Disp. ..... 1.5 CFM Drive ..... Direct Motor Size ...... 1/6HP Voltage ..... 110-115V Micron Rating ... 50 Microns Oil Capacity ..... 8 oz.

Intake Fitting ..... 1/2" ACME 1/4" Flare



2 CFM Single Stage Vacuum Pump Multi-refrigerant compatible. Works with R12 & R134a.





### 8712

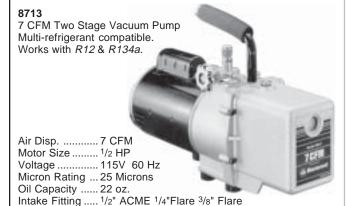
5 CFM Two Stage Vacuum Pump Multi-refrigerant compatible. Works with R12 & R134a.





Air Operated Light Duty Vacuum Pump Air Disp. ..... 1.3 CFM

Air Operated - Requires 4.5 cfm/90 psi shop air



8255 ...... Gallon 8256 ......Quart 8257 ......12 oz.

# Vacuum Pump Oil

Promotes internal sealing for good vacuum and absorbs unwanted vapor from evacuated units. Regular oil changes promote longer vacuum pump life.





8720 Vacuum Pump Fitting - Retro-Adapter to convert R12 pumps to R134a



Vacuum Pump Fitting - Retro-Adapter to convert R12 pumps to R134a



800-290-9798

# Clutch Plate Removal Tools



8940 SANDEN 505/507/508/510/575 708/709



8941 GM A6/R4



8942 FORD FS6 Chrysler C171/A590



8943 GM DA6/HR6/V5



**Clutch Remover Kit** Includes 8940/8941/8942/8943

• Universal remover jaws



# 8195

### Deluxe Hub Puller/Installer Kit

- Kit contains a complete offering of A/C compressor clutch hub pullers and installers for GM, Ford, Chrysler and Imports.
- Includes a compressor identification chart and comes in a custom molded case.



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# TOO! S-SERVICE ITEM

# Service Tool Sets



8181

### **Master Seal Service Tool Set**

Includes the tools necessary to service seals on all GM, Nippondenso, York, Tecumseh, and Sanden compressors.



### 8185

### Zexel Seal and Clutch Tool Set

Services standard Diesel Kiki compressor models: DKS12 and DKS15. Includes tool box and instructions.



### 8186

# Master Sanden Compressor Tool Service Set

All specialized tools necessary to service seal, clutch and clutch veering on Sanden 505, 507, 510 and 575 compressors.



### 8187

# Ford FS-6 Nippondenso Compressor Tool Set

Contains all the specialized tools required to service Nippondenso Compressors.



### 8188

# **Master Clutch Service Tool Set**

For Servicing Clutches on: GM A6, R4, DA6, R4, V5, Ford FS6, Chrysler C171, and Sanden Compressors.



8174 ..... GM DA6 Carbon Seal Set

8175 ..... CCI/Tecumseh Seal Set

8176 ...... GM A6, R4, and late DA6/HR6 Seal Set

8177 ..... Ford FS6 Seal Set

8178 ...... Sanden 508/510 Seal Set

8179 ······Zexel Diesel Kiki Seal Set

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