

ACCESSORIES	463
CHARGING ADAPTERS	473
CHARGING HOSES	472
CHARGING MANIFOLDS	475
CHEMICALS AND LUBRICANTS	.464-468
CLUTCH PLATE TOOLS	480
CLUTCH PULLEY PULLERS	480
COMPRESSOR GUARD	476
DIPSTICKS	465
FLUSHES AND COMPONENTS	464
GAUGES	72
ICE ³²	468
LEAK DETECTORS	. 467-470
LUBRICANT ENHANCER (ICE ³²)	468
LUBRICANTS/OILS	. 465-466
MASTERCOOL PRODUCTS	469

MASTERCOOL HOSE CRIMPER	368
OIL TYPES - CHART	228
OIL INJECTORS	474
ROBINAIR RECYCLING FILTER	470
SERVICE ADAPTER KITS	474
SERVICE COUPLERS	475
SERVICE EQUIPMENT	470
SERVICE TOOL SETS	481
SHRADER VALVES AND TOOLS 47	7-478
SYSTEM GUARD	476
THERMOMETERS	464
TRACERLINE PRODUCTS	467
VALVE CORE AND TOOLS477	'- 478
VACUUM PUMPS	479
VACUMM FITTINGS, OIL	479

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.



8729 R134a Recharge Kit Screw on design with hose and quick coupler. Built in safety check valve.



8730 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



8782 **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



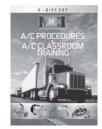
8930 **Orifice Tube Extractor Kit** Easily removes damaged orifice tubes in Ford & GM vehicles.



8990 A/C Service Tape 30 Ft. Roll



8890B A/C Service Manual Covers service procedures for R12 / R134a



1000-DVD

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

DVD Features Theory & Operation

- Trouble Shooting
- Component Function
- · System Diagnosis Service procedures

Accessories

Thermometers



8723
Dial Thermometer
1 3/8" Face with Range: -40° to 160°F



8724 - 1 ³/₄" Face **8725 -** 1" Face

Dial Thermometer with Range: 0° to 220°F



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



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



Dual Temp Infrared w/Contact Thermometer 7/8" Digital Display, attery 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



8808
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

PREMIUM SOLVENT-BASED

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

Johnsen'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



TOOLS-SERVICE ITEM

Chemicals and Lubricants

R134a/R12 POLYOL ESTER OIL

Johnsen's Synthetic Polyol 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. Johnsen'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 Viscosity@40°C(cSt):100 Pour Point: -22°F

Flash Point: 491°F

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



R134a PAG OIL

Johnsen's 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.

T/CCI ISO 100 PAG OIL

82018 oz.

8202 12 oz.

8203 Quart

8204 Gallon

8237 14 oz

FORD 10PA SELTEC TM ISO 46 PAG OIL

8207 8 oz. 8225 Quart 8226 Gallon SANDEN ISO 100 PAG OIL

8206 8 oz. 8227 Quart 8228 Gallon GMC ISO 150 PAG OIL

8208 8 oz. 8229 Quart 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

Castrol wrong

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.

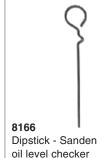
8219 8 oz.



DIPSTICKS



Dipstick - T/CCI/York Style -oil level checker



Chemicals and Lubricants (continued)

SANDEN R134a PAG SP15 OIL



8248 8.45 oz.

Used when servicing Sanden Compressors in systems that are charged with 134a. For use with SD 508, 510, 709, 5H14, 7H15 Compressors. (SP15 replaces SP20)

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.

PAG OIL CHARGE



8209 4 oz. PAG 150

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

POLYOL ESTER OIL CHARGE OIL



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.

Lube and Seal R134a Leak Stop



8217 7 oz. Aerosol

A/C Lube and Seal

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



8218 4 oz.

Johnsen's Leak Stop - Detects and helps to seal most common leaks in R134a A/C systems.

Big Blu™ 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-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.

8476 8 oz.

A/C Dye Cartridges

Prefilled and disposable



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
- Enhancing glasses
- Underhood labels



8458 OPTIMAX Jr™

Mini flashlight reveals leaks, Compatible with <u>all</u> leak dyes, Ultra compact, lightweight, LED bulb, batteries included

Stick Capsules

Tracer Stick Capsules

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.	

DYES



All-In-One Dye for Non-A/C Applications

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

8477 8oz.

EZ-Ject 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.



Universal UV Dve for A/C Applications

8478 8oz. (squeeze bottle)



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 32 Lubricant Enhancer and 1 oz. of R134a)



8302

8 oz. bottle, non-aerosol (ICE 32 Lubricant Enhancer)



8303

1.5 oz. bottle, non-aerosol (ICE 32 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

3 Cans

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



8310

Toolbox Demo Kit

Kit Includes: 3.0 oz ICE32 (8301)

	0.0 02 10 L02 (000 1) 0 Oans
0	1.5 oz ICE32 (8303) 6 Bottles
0	Aerosol Injector Kit (8304) 1
0	Manual Injector (8305) 1
0	Clear Safety Goggles 1
0	Clipboard 1
0	Consumer Brochures 2 Packs
0	ICE32 Aerosol Video 1
	ICE32 Installation Forms 2 Pkgs
0	Plastic Tool Box 1
0	Uei Digital Thermometer 1
	Under Hood Stickers 2 Sheets
	Window Decals 2

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
- Dve Cleaner
- R12 Adapter
- 10 Service Info. Labels

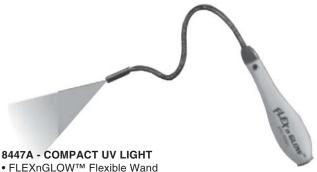
Uses #8470 dye cartridges.

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



Mastercool Injector Only Universal Dyes see page 467

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
- 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



0/10

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 (sold empty).

Robinair Filters



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



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

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



(R134a) Digital Manifold Set A plastic molded case includes a manifold with

a set of 3 -72" hoses and a set of manual couplers.

SPECIFICATIONS

- Pressure Display: PSI, IN-Hg, BAR, MPa and kg/cm² (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)

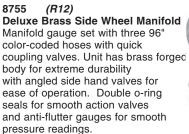
Deluxe Aluminum 4-Way Manifold Manifold gauge set with three 72" color-coded hoses with quick coupling valves. Four-way manifold gauges give you more control over air conditioning service. Four ball valves control refrigerant flow, vacuum and access to the system high and low sides with only a quarter 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.



8754A (R134a)

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.





8756A (R12/R134a) Dual Brass Manifold Set Manifold gauge has three 96" nylon hoses, standard couplers, tank adapter, and 2 1/2" silicone anti-flutter

gauges.



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.

R134a Conversion Kit Converts R12 manifold set to R134a.

Replacement Compound Gauges

2 1/2" Diameter



8760R12 High Side Pressure Gauge (Red)

8761R12

Low Side Pressure Gauge (Blue)





8764 R134a High Side Pressure Gauge (Red)

8765 R134a

Low Side Pressure Gauge (Blue)

3 1/8" Diameter



8766R134a 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

Charging Adapters& Seals



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

8868 1/4" FFL x 13mm



8874 **Charging Hose Seals** For use with R134a Charging Hoses with 1/2" ACME Fittings. Fits onto Manifold end of hose. (for red/blue and yellow hoses) Box of 10



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



8891 Service Port -**GM High Side** 1/4" x 3/16" Female



Service Port - 90° **GM High Side**

1/4" x 3/16" Female 8893

1/4" x 1/4" Female

Charging Adapters (continued)



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



8897 **Charging Adapter** Ford 1/8" High Side Adapter



Charging Adapter GM 6" Flexible 1/4" x 3/16"



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



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



8903 **Adapter Fitting** 1/2" ACME-M x 1/2" ACME-M union



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)	8782
• 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



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
- \bullet GM 1991 & later service adapter \bullet $^{1/4"}$ x $^{3/16"}$ GM flex
- 1/4" x 1/8" Ford flex
- Misc. gaskets, valve cores, depressors



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.



8743 Oil Injector - R134a 8744 Oil Injector - R12

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



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



ACME T-Fitting w/o Schrader



8850 High Side Coupler - red 8851 Low Side Coupler - blue 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.







8870 5 guides & 5 o-rings 8871 5 guides & 5 o-rings 8872 10 o-rings 8873 10 o-rings



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



Adapter Coupler R134a 1/4" Flare (7/16"-20) x 1/2" ACME



8912R.. OE ROBINAIR Style 8913 High Side Coupler - red 8913R.. OE ROBINAIR Style Service Couplers for R134a New, smaller design for tight quarters.

Springlock Tools and Couplers



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")



R12/R134a Ford Spring Lock **O-Ring Kit** Garter springs & O-Rings for all

size couplers used on 1981 to present Fords.

475 © 2009 MEI Corporation

8983 #12 (3/4")

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





877610 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



8830

Complete Kit

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

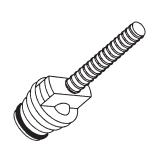


Extractor tool easily removes screen from the suction side



The suction screen prevents debris from entering the compressor

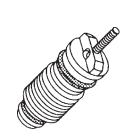
Schrader Valves & Tools



8914 GM High Flow Large Bore Valve Core 10 per box



8915R12/R134a Replacement Valve Core Standard 1/4" Service port 10 per box



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



8918R134a Valve Core Removal Tool



8919R12/R134a Universal Schrader Core Remover



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



8922R134a
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

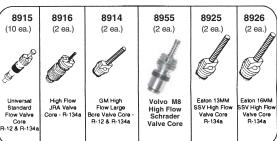


8927 R134a Heavy Duty Core Removal Tool

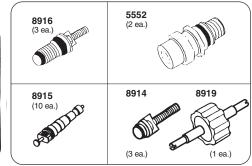


8936 Low Side - R134a 8937 High Side - R134a Octagon Service Port Socket Specially designed thin wall sockets for eight sided retrofit adapter.





8938 R12/R134a Schrader Valve Core Kit



8978 R134a Valve Core Repair Assortment Kit

477

10 per box

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.



8934R134a

Valve Core Remover/Installer

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

478

- 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 1/4"-M x 3/16"-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

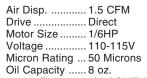
- Valve Assembly
- Eaton R134a low side valve core remover/ installer
- Eaton R134a high side valve core remover/installer
- R134a high side 16mm connector
- R134a low side 13mm connector

Vacuum Pumps

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

8709A

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



Intake Fitting 1/2" ACME (R134a); 1/4" Flare (R12)



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



Intake Fitting 1/2" ACME (R134a); 1/4" Flare (R12)

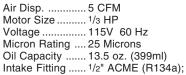


Air Disp. 1.3 CFM

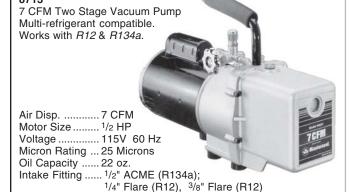
Air Operated - Requires 4.5 cfm/90 psi shop air



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







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.



1/4" SAE

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



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

1/4" SAE 1/4" SAE 8722 Vacuum Pump Fitting -1/2" ACME "T" Style Retro-Adapter to convert R12 pumps to R134a

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



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.

Clutch Pulley Pullers



8196 **Universal Clutch Pulley Puller Kits** Kit contains:

- Rotor and bearing pilot
- Universal puller body
- Universal puller arbor
- · Universal remover jaws

8197

Universal Pulley Puller Kits

- Kit contains:
- Puller arbor Pulley removal jaws
- · Set of thumb screws and washers
- GM pulley removal pilot
- GM pulley hub removal pilotGM puller body

Compressor/Clutch Turning Tool



Compressor/Clutch Turning Tool

Allows for the application of force to the hub, to rotate compressor.

TOOLS-SERVICE ITEMS

Service Tool Sets



8175 CCI/Tecumseh Seal Set 8177 Ford FS6 Seal Set 8178 Sanden 508/510 Seal Set 8179 Zexel Diesel Kiki Seal Set



8181

Master Seal Service Tool Set

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



8183

Sanden Compressor Clutch Tool Kit

(Essential tools only for removing and installing clutches)



8185

Zexel Seal and Clutch Tool Set

Services standard Diesel Kiki compressor models: DKS12 and DKS15.

Includes tool box and instructions.



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.