

**Cool  
Zone**  
Automotive

**Auto Air<sup>®</sup>**  
Gloucester Limited

Version 20

# Air-conditioning Tools & Consumables Catalogue

**Technical Help:**  
0843 330 4097

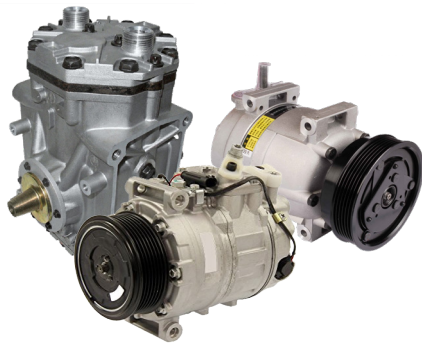
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# The Knowledge Behind the Product

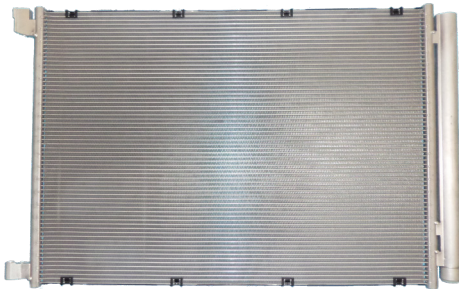
We also offer a comprehensive range of replacement AC components such as...



OE & Pattern Compressors



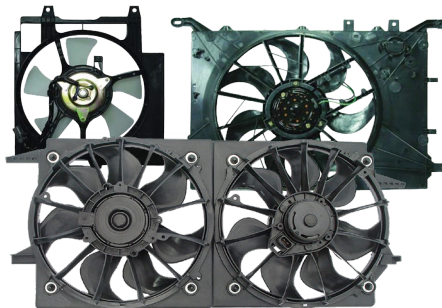
Driers & Accumulators



Condensers



Pressure Switches



Cooling Fans



Blower Motors, Fans  
& Resistors



Expansion Valves



Evaporators

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# R134a Oils



# Elke

All of our Pag oils are double end capped. This is a process that stabilises chemicals in the lubricant to improve the tolerance to high temperature.

This also helps prevent reactions that create acid within the air-conditioning system, making Pag oil tolerant to moisture.

## Pag 46 R134a Oils

Part No	Description	R134a	Qty
41-1020	Elke® Pag 46 ND8 Oil		250ml
41-1020A	Elke® Pag 46 ND8 Oil		1ltr
41-1026	Elke® Pag 46 ND8 Oil		5ltr
41-1035	Elke® Pag 46 Oil With Dye		250ml
41-1020B	Elke® Pag 46 Oil With Dye		1ltr

## Pag 46 Oils

## Pag 100 R134a Oils

Part No	R134a	R134a	Qty
41-1022	Elke® Pag 100 Oil		250ml
41-1022A	Elke® Pag 100 Oil		1ltr
41-1036	Elke® Pag 100 Oil With Dye		250ml
41-1022B	Elke® Pag 100 Oil With Dye		1ltr

## Pag 100 Oils

## Pag 125 R134a Oils

Part No	Description	R134a	Qty
41-1042	Elke® Pag 125 (Blue) Oil		250ml
41-1043	Elke® Pag 125 (Blue) Oil		1ltr

## Pag 125 Oils

## Pag 150 R134a Oils

Part No	Description	R134a	Qty
41-1021	Elke® Pag 150 Oil		250ml
41-1021A	Elke® Pag 150 Oil		1ltr
41-1034	Elke® Pag 150 Oil With Dye		250ml
41-1033	Elke® Pag 150 Oil With Dye		1ltr

## Pag 150 Oils

## PAO 68 R134a Universal Oils

Part No	Description	R134a	Qty
41-1037	Elke® PAO 68 RL897 Oil		250ml
41-1068	Elke® PAO 68 RL897 Oil		1ltr
41-1070	Elke® PAO 68 RL897 Oil		5ltr
41-1069	Elke® PAO 68 Oil With Dye		250ml
41-1068A	Elke® PAO 68 Oil With Dye		1ltr

## PAO 68 Oils

## Ester R134a Universal Oils

Part No	Description	R134a	Qty
41-1030	Elke® POE 100 Ester Oil		250ml
41-1031	Elke® POE 100 Ester Oil		1ltr
41-1032	Elke® POE 100 Ester Oil With Dye		1ltr

When converting an R12 system to R134a use 50ml of Ester oil & add to the vehicles existing oil.

This will stop the deterioration of seals and protect them in the system.

(Replaces 41-0000A in previous catalogues)

## Ester Oils

**It is imperative that the correct oil for Hybrid/Electric vehicles is used. Most Hybrid/Electric vehicles use high voltage compressors rather than the conventional belt driven pulley type and if the wrong oil is used there is a risk that the oil can conduct and pass this high voltage onto the engine/body causing a harmful/fatal shock to the user.**

## Hybrid R134a Oils

Part No	Description	Hybrid	R134a	Qty
41-1024	Elke® POE 80 MA68EV Oil ND11 SP11			250ml
42-0020	Snow Leopard® POE MRL85 Universal Oil			1ltr

## Hybrid Oils

## Hybrid R134a One shot Oil Syringe Kit

Part No	Description	Hybrid	R134a
42-0017	Elke® One Shot Oil Syringe.		
	1 x 60ml oil syringe. R134a & Hybrid. Requires 42-0014		
42-0014	Hose With Check Valve & Quick Coupler.		
	R134a		



# HFO1234yf Oils



# Elke

## HFO1234yf Oils

Part No	Description	HFO1234yf	Qty	
41-1025	Elke® Pag 46 Oil Approved oil for HFO1234yf systems. ND12 compatible.		250ml	Pag 46 Oil
41-1038	Elke® Pag 100 Oil Approved oil for HFO1234yf systems. For use on some Valeo systems.		250ml	Pag 100 Oil
41-1051	Elke® PSD1 Oil GM only approved oil for HFO1234yf systems. Compatible for XTS A/C Delco Systems. Recommended for mechanical compressors (belt). More stable than other oils in the yf (higher pressured) system. BACKWARDS COMPATABLE.		250ml	PSD1 Oil
41-1053	Elke® ND12 Oil Denso approved for HFO1234yf systems. Compatible for ATS A/C systems. Recommended for mechanical compressors (belt). More stable than other oils in the yf (higher pressured) system. BACKWARDS COMPATIBLE.		250ml	ND12 Oil

## HFO1234yf & Electric/Hybrid Oils

Part No	Description	HFO1234yf	Hybrid	Qty	
41-1052	Elke® SP-A2 Oil Sanden approved for HFO1234yf systems. Compatible with Hybrid compressors HVCC, Mahle & Sanden where SP-A2 is recommended.			250ml	Hybrid Oils
41-1029	Elke® POE ISO 80 Viscosity Oil HFO1234yf & Hybrid Compatible with Denso ND10, ND11, HCC PVE, Panasonic AE-10, Sanden SE-10Y.			250ml	Hybrid Oils

## CO<sub>2</sub> Pag Oils

Part No	Description	CO <sub>2</sub>
41-1072	Elke® R744 Pag 46 Oil 250ml	
41-1073	Elke® R744 Pag 46 Oil 1ltr	

Pag 46 lubricant.  
For use  
with **R744 CO<sub>2</sub>**  
non Hybrid  
systems.



250ml



1ltr

## Universal\* HFO1234yf Oils

Part No	Description	R134a	HFO1234yf	Hybrid
42-0021	Elke® *Universal Pag Oil 250ml			
42-0021a	Elke® *Universal Pag <u>Oil + Dye</u> 250ml			
42-0022	Elke® *Universal Pag Oil 1ltr			
42-0022A	Elke® *Universal Pag <u>Oil + Dye</u> 1ltr			

Universal Pag  
lubricant for use  
in **R134a** &  
**HFO1234yf** systems.  
Can also be used in  
\*Sanden only  
electric compressors  
fitted in  
**Hybrid** vehicles.



250ml



1ltr

## Universal\* HFO1234yf Oils

Part No	Description	R134a	HFO1234yf	Hybrid
42-0020A	Snow Leopard® Universal POE MRL85 Oil 250ml			
42-0020B	Snow Leopard® Universal POE MRL85 <u>Oil &amp; Dye</u> 250ml			
42-0020	Snow Leopard® Universal POE MRL85 Oil 1ltr			

Universal Ester based  
lubricant for use  
in **R134a** &  
**HFO1234yf** systems.  
Can also be used in  
\*all electric compressors  
fitted in **Hybrid** vehicles.  
Conforms to MRL 85.

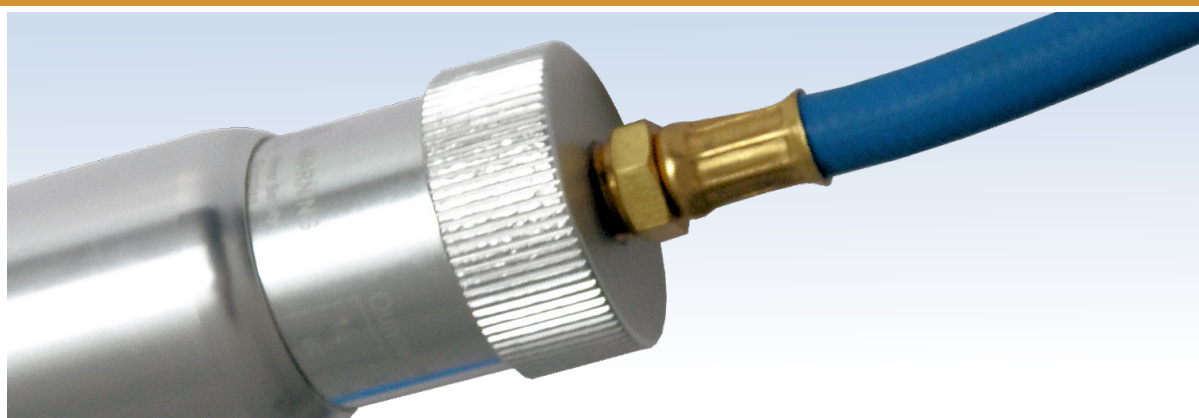


250ml





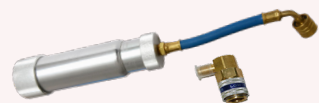


1ltr

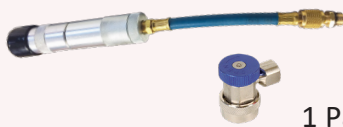
# Oil Injector Range



## Oil Injectors R134a (Cartridge Refills Are Not Required)


Part No	Description	R134a	Qty
41-1139	Plastic Oil/Dye Injector Plastic Injector and hose assembly with budget low side <b>R134a</b> snap connector. Approx 60ml capacity.		 1 Pack
41-1138	Hand Turn Oil/Dye Injector Metal Hand Turn Injector and hose assembly with low side <b>R134a</b> snap connector. Approx 30ml capacity.		 1 Pack
41-1135	Hand Turn Oil/Dye Injector Metal Hand Turn Injector with 1/2 ACME hose connection. Approx 60ml capacity.		 1 Pack
41-1136	Hand Turn Oil/Dye Injector Metal Hand Turn Injector with 1/4 hose connection. Approx 60ml capacity.		 1 Pack
41-1161	Hand Turn Large Oil/Dye Injector Metal Hand Turn Injector and hose assembly with low side <b>R134a</b> snap connector. Approx 60ml capacity.		 1 Pack

## Oil Injectors HFO1234yf (Cartridge Refills Are Not Required)


Part No	Description	HFO1234yf	Qty
41-1160	Hand Turn Oil/Dye Injector Metal Hand Turn Injector and hose assembly with low side <b>HFO1234yf</b> snap connector. Approx 30ml capacity		 1 Pack




## Spot-Gun® Pag Oils

Part No	Description	R134a	Qty
41-140283	Pag 46 Spot-Gun® Oil Cartridge R134a		 250ml
41-140284	Pag 100 Spot-Gun® Oil Cartridge R134a		
41-140285	Pag 150 Spot-Gun® Oil Cartridge R134a		


## Spot-Gun® Electric/Hybrid R134a Oils

Part No	Hybrid	Hybrid	R134a	Qty
41-40139	Spot-Gun® Oil Cartridge Hybrid & R134a			 120ml
For use with Spot-Gun® applicator 41-0102				




## Spot Gun® HFO1234yf Oil

Part No	Description	HFO1234yf	Qty
41-40140	Spot-Gun® Pag 46 Oil Cartridge HFO1234yf		 250ml
For use with Spot-Gun® applicator 41-0102			

## Spot-Gun® UV Dye

Part No	Description	Hybrid	HFO1234yf	R134a	Qty
41-40138	Spot-Gun® UV Dye Cartridge				 250ml
For use with Spot-Gun® applicator 41-0102					


## Spot-Gun® Applicator and Hoses

Part No	Description	Qty
41-0102	Spot-Gun® Applicator	 1 unit
	Strong and robust applicator for use with UV Dye/Oil Cartridges. Requires Spot-Gun® Hose.	
41-0101	Spot-Gun® Hose	 1 unit
	R134a	
41-0101A	Spot-Gun® Hose	 1 unit
	R1234yf	



# Recovery Machine Oils & UV Dyes



## Oil-in-a-Bag & Dye-in-a-Bag

Part No	Description	Qty
41-2013	PAG 46 Oil <b>R134a</b>	 500ml *Meets SAE J2297/J2298
41-2014	PAG 100 Oil <b>R134a</b>	
41-2026	PAG 125 Oil <b>R134a</b>	
41-2027	PAG 150 Oil <b>R134a</b>	
41-2033	PAO 68 Universal Oil <b>R134a</b>	
41-2034	PAO 68 Universal Oil With Dye <b>R134a</b>	
41-2028	POE 100 Oil <b>Hybrid &amp; R134a</b>	
41-2015	Yellow Brilliant UV Dye Hybrid <b>R134a &amp; HFO1234yf*</b>	
41-2016	Red Brilliant UV Dye <b>Hybrid &amp; R134a *</b>	
41-2035	Blue Brilliant UV Dye <b>Hybrid &amp; HFO1234yf *</b>	

## Oil-in-a-Bag & Dye-in-a-Bag Adaptors

Part No	Description	Qty
41-2025	Special Plastic Adaptor  with quick coupler for Oil-in-a-Bag/Dye-in-a-Bag system. White and yellow straight connectors	 1 Set
41-2025A	Special Plastic Adaptor  with quick coupler for Oil-in-a-Bag/Dye-in-a-Bag system. White and yellow 90° connectors	 1 Set

## Pressurised Pag Oil & Dyes for Waeco® Machines

Part No	Description	Qty
41-1044	Pag 46 Oil Pressurised Canister. <b>R134a</b>	 500ml
41-1045	Pag 100 Oil Pressurised Canister. <b>R134a</b>	
41-1046	Pag 150 Oil Pressurised Canister. <b>R134a</b>	
41-1047	Pag 46 Oil Pressurised Canister. <b>HFO1234yf</b>	
41-1048	Tracer UV Dye Additive <b>R134a</b>	

# Recovery Machine Oils & UV Dyes



Snow Leopard® technical lubricants are made for the alternating hot and cold environments of an AC system. Formulated from selected synthesised oils, refined with special additives to meet and exceed the needs of your compressor, Snow Leopard® oils have the power and performance to lubricate and protect your compressor and to optimise the environment/performance of any AC&R system.


## Snow Leopard® Machine Oil Concertinas

Part No	Description	HFO1234yf	R134a	Qty
41-2041	PAG46 Oil Concertina Nozzle Blue			
41-2042	PAG46 Oil Concertina B/fly Orange			
41-2043	PAG100 Oil Concertina Nozzle Blue			
41-2044	PAG100 Oil Concertina B/fly Orange			
41-2045	MRL85 Hybrid Oil Concertina Nozzle Blue			
41-2046	MRL85 Hybrid Oil Concertina B/fly Orange			

\* Convert your old machine standard bottles to the modern concertina system by using one of the above part numbers plus an adaptor 41-2036 or 41-2037

260ml

## Glo-leak® Machine UV Dye Concertinas

Part No	Description	Hybrid	HFO1234yf	R134a	Qty
41-2039	UV Glo-leak® Dye For A/C machines. Yellow nozzle version. Hybrid systems. HFO1234yf & R134a				
41-2040	UV Glo-leak® Dye For A/C machines. Orange B/fly version. Hybrid systems. HFO1234yf & R134a				

\* Convert your old machine standard bottles to the modern concertina system by using the 41-2039 above plus an adaptor 41-2038

125ml

## Snow Leopard® (For Converting Your Older Machine to Concertina System)

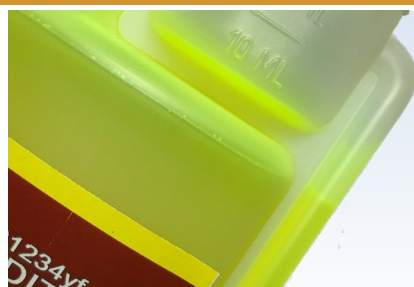
Part No	Description	Qty
41-2036	Oil Adaptor • Orange Butterfly version. • Female connector.	
41-2037	Oil Adaptor • Blue (for oil) Bayonet Nozzle version. • Female connector.	
41-2038	Oil Adaptor • Yellow (for Glo-Leak®) Bayonet Nozzle version. • Female connector.	

1 Unit

1 Unit

1 Unit

# UV Dyes



Our solvent free fluorescent dyes are visible with any UV lamp.

This allows for quick and accurate location of any refrigerant gas leaks.

Compatible with PAG, Ester and Mineral oils.



## UV Dye

Part No	Description	R134a	Qty
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42-0000A	Elke® Economy UV Eco-dye		
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33 shot (based on using 7.5ml per 1.5kg of gas).

**R134a only**

Solvent free.

Meets SAE J2297 and SAE J2298



250ml

42-0000B	Elke® Economy UV Eco-dye		
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132 shot (based on using 7.5ml per 1.5kg of gas).

**R134a only**

Solvent free.

Meets SAE J2297 and SAE J2298.



1ltr

## UV Dye

Part No	Description	HFO1234yf	R134a	Qty
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42-0007	Elke® UV Dye			
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33 shot (based on using 7.5ml per 1.5kg of gas).

**HFO1234yf & R134a**

Solvent free.

Meets SAE J2297 and SAE J2298.



250ml

42-0008	Elke® UV Dye			
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46 shot (based on using 7.5ml per 1.5kg of gas)

**HFO1234yf & R134a**

Solvent free.

Meets SAE J2297 and SAE J2298.



350ml

## UV Dye Universal

Part No	Description	Hybrid	HFO1234yf	R134a	Qty
42-0018	Elke® Universal UV Dye				

33 shot.  
Standard and Hybrid systems.  
Specially formulated to mix  
with the latest refrigerant HFO1234yf & R134a  
Meets SAE J2297 and SAE J2298



250ml

42-0019	Elke® Universal UV Dye
---------	------------------------

132 shot.  
Standard and Hybrid systems.  
Specially formulated to mix  
with the latest refrigerant HFO1234yf & R134a  
Meets SAE J2297 and SAE J2298



1ltr

## UV Dye Electric/Hybrid

Part No	Description	Hybrid	HFO1234yf	R134a	Qty
42-0000	UV Glo-Leak® Dye				

33 shot (based on using 7.5ml per 1.5kg of gas).  
Specially formulated to mix with the latest refrigerant.  
Hybrid systems with HFO1234yf & R134a



250ml

42-0010	Elke® UV Dye
---------	--------------

33 shot (based on using 7.5ml per 1.5kg of gas).  
Specially formulated to mix with the latest refrigerant.  
Hybrid systems with HFO1234yf & R134a

Meets SAE J2297 and SAE J2298.



250ml

## UV Dye CO<sub>2</sub>

Part No	Description	CO <sub>2</sub>	Qty
41-1074	Elke® CO <sub>2</sub> UV Dye		

33 shot (based on using 7.5ml per 1.5kg of gas).  
Specially formulated to mix with R744 CO<sub>2</sub> refrigerant.  
For use in Non-Hybrid systems



250ml


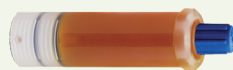
# UV Dye Injector Range



## Hand Turn UV Dye Injectors (Cartridge Refills Are Not Required)

Part No	Description	R134a	Qty
41-0051	Hand Turn UV Dye Injector & Dye Kit Metal Hand Turn Injector and hose assembly with R134a snap connection, UV dye and engine bay stickers. 60ml injector capacity.		1 Kit
41-1138	Hand Turn UV Dye/Oil Injector Metal Hand Turn Injector and hose assembly With low side R134a snap connector. Approx 30ml capacity.		1Pack
41-1161	Hand Turn UV Dye/Oil Injector Metal Hand Turn Injector and hose assembly with low side R134a snap connector. Approx 60ml capacity.		1 Pack
41-1135	Hand Turn UV Dye/Oil Injector Metal Hand Turn Injector with 1/2 ACME hose connection. Approx 60ml capacity.		1 Pack
41-1136	Hand Turn UV Dye/Oil Injector Metal Hand Turn Injector with 1/4 hose connection. Approx 60ml capacity.		1 Pack
Part No	Description	HFO1234yf	Qty
41-1160	Hand Turn UV Dye/Oil Injector Metal Hand Turn Injector and hose assembly with low side HFO1234yf snap connector. Approx 30ml capacity.		1 Pack

## UV Dye Twister Injector Kit (Cartridge Refills Required)

Part No	Description	R134a	Qty
41-0050	Twister Dye injector & Dye Kit. Twister Injector and hose assembly with R134a snap connection and fluorescent dye.		1 Kit
41-0049	Replacement Twister Dye Cartridge. 25 Applications. R134a		1 Cartridge

## UV Concertina Kit and Accessories

Part No	Description	R134a	Qty
42-0005	Glo-leak® UV Concertina Injection Dye Kit Approx 10 shots. Contains injector system, hose, coupler and a 60ml concertina bottle of dye.		1 Kit
42-0004	Glo-leak® UV Concertina Dye Refill Approx 10 shots. (For use with 42-0005 above)		60ml

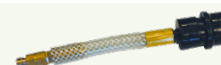


## One shot UV Syringe Kits

Part No	Description	R134a	Qty
42-0011	Elke® One Shot Dye Syringes		
	Pack of 12 x 7.5ml UV additive. (Requires 42-0014 hose with check valve and combined quick coupler sold separately to be injected). R134a		 1 Pack
42-0014	Hose with Check Valve and Quick Coupler		
	For use with 7.5ml syringes. R134a		 1 unit

Part No	Description	Hybrid	R134a	Qty
42-0012	Elke® One Shot Dye Syringes			
	Pack of 12 x 7.5ml UV additive. (Requires 42-0014 hose with check valve and combined quick coupler sold separately to be injected). Hybrid & R134a			 1 Pack
42-0014	Hose with Check Valve and Quick Coupler			
	For use with 7.5ml syringes. Hybrid & R134a			 1 unit

Part No	Description	HFO1234yf	Qty
42-0013	Elke® One Shot Dye Syringes		
	Pack of 12 x 7.5ml UV additive. (Requires 42-0014B hose with check valve and combined quick coupler sold separately to be injected) . HFO1234yf		 1 Pack
42-0014B	Hose with Check Valve and Quick Coupler		
	For use with 7.5ml syringes. HFO1234yf		 1 unit





# UV Dye Kits

## UV Dye Kits

Part No	Description	R134a	Qty
41-0115	60ml Hand Turn Injector UV Dye Kit Kit contains 12v 60W UV lamp, Hand turn injector, UV glasses (41-0008), Injector hose R134a, 250ml UV dye additive (42-0000A) and UV dye remover 400ml (41-0053).		
			1 kit

## UV Dye Kits

Part No	Description	R134a	Qty
42-0100A	Plastic Junior Spot-Gun® UV Dye Kit Contains a battery powered UV light, UV glasses, Plastic Spot-Gun applicator, Spot-Gun hose, Spot-Gun UV dye cartridge and leak detection dye stickers. Meets SAEJ2297		
			1 Kit
42-0101	Junior Spot-Gun® UV Dye Refill Cartridges (With Tabs) Pack of 4 (Will only fit the plastic junior Spot-Gun 42-0100A). Meets SAEJ2297		
			30ml x4

Part No	Description	Hybrid	R134a	Qty
41-0100	Spot-Gun® UV Dye Kit			
	<p>Kit contains 12v 60W UV lamp, UV glasses (41-0008), Spot-Gun® applicator, Injector hose R134a, Spot-Gun® UV dye cartridge and UV dye remover 400ml (41-0053).</p> 			1 Kit
41-40138	Spot-Gun® UV Dye Cartridge Refill			
	<p>Refill for 41-0100. Hybrid, HFO1234yf &amp; R134a</p> 			1 Cartridge

Part No	Description	HFO1234yf	R134a	Qty
42-0102	Elke® Rechargeable UV Lamp Kit			
	<p>Kit contains rechargeable lamp (41-0037B), UV protective glasses (41-0008), 250ml UV additive(42-0000A) and UV additive remover spray 400ml (41-0053A).</p> 			1 Kit

# UV Lamps & Torch Kits

UV Lamps & Torch Kits					
Part No	Description	Battery	Part No	Description	Rechargeable
41-0037	Chrome Look UV Torch		41-0037B	UV Torch	
					
Detects and locates refrigerant leaks. Includes UV glasses (41-0008).			Detects and locates refrigerant leaks. Includes UV glasses (41-0008).		
Part No	Description	Battery	Part No	Description	Battery
41-10044	UV Led Torch		41-0080	Led UV Lamp	
					
Flexible. Supplied with UV glasses. Glasses also available separately (41-0008).			Invictalux® UV400 leak tracer torch with 13 UVA LED's. UV glasses included.		
Part No	Description	Battery	Part No	Description	12V
41-0081	LED UV Torch		41-0023A	100w UV Lamp	
					
UV Torch with 12 UVA LED's. UV glasses included. Glasses also available separately (41-0008).			Fixed head with UV glasses and Carry case. Glasses also available separately (41-0008).		

# Leak Detection Consumables

## PPE Consumables and UV Spares

Part No

41-0074



F-Gas Approved Gloves & Eye Protection Goggles.  
Required for working with automotive refrigerants.  
Goggles are indirectly vented.  
EN 388/374 F-gas Approved.

Part No

41-0074A



Size 10 Work Gloves & Eye Protection Goggles.

Part No

41-0061L



Large Size 8.5-9  
Midnight/Microflex  
Gloves.

Part No

41-0061XL



Extra Large Size 9.5/10  
Midnight/Microflex  
Gloves.

Part No

41-0008



Replacement Yellow  
UV Protective Safety  
Glasses.

Part No

41-0053



UV Dye Cleaner.  
Pump action environmentally  
safe & effective way of removing  
UV dye once a leak has been  
located and repaired.

Part No

41-0053A



UV Dye Cleaner.  
Pressurised can. 400ml.

Part No

41-0024



Replacement Bulb.  
For the Piranha® 12v UV 41-0023.

Part No


41-0009




Replacement UV Glass.  
For Piranha® 12v UV 41-0023.

# Refrigerant Sniffers

Refrigerant Sniffers					
Part No	Description	R134a	Part No	Description	HFO1234YF R134a
41-0005	Tekmate® Leak Sniffer/Detector		41-0103	Elke® Leak Sniffer/Detector	




Electronic. Tests **R134a**.  
Battery Powered.  
Batteries included.  
(Spare tips available 41-0005A)



Tests **HFO1234YF, R134a, R12, R404a, R407c, R-410a, R22** etc..  
Warm up time 45s  
(Spare tip sensor available 41-0103A)  
(Spare tip sensor cover available 41-0103B)

Part No	Description	R134a
41-0060	Mastercool® 2 in 1 Sniffer with <u>Built in UV Light</u>	



This revolutionary new design allows the user to perform Electronic and UV Leak Detection all with one tool. The “INSPECTOR” offers six levels of sensitivity (15 levels of detection) with a tri-colored LED indicator. This allows the “INSPECTOR” to pin-point leaks as small as 1/10 oz (3 grams). 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.

# Refrigerant Sniffers

Part No	Description	HFO1234yf	R134a
41-0117	Elke® Leak Sniffer/Detector		



Electronic.  
Tests **HFO1234YF**, **R134a**.  
Will also detect **Hydrogen**  
Warm up time 5s.

Part No	Description	HFO1234yf	R134a
41-0110	Mastercool® Leak Sniffer/Detector		



The Mastercool® Intellasense battery powered leak detector employs a new metal oxide gas sensor for the detection of chlorofluorocarbon gasses and blends. This sensor is characterised by high sensitivity and a fast response. The detector boasts a progressive LCD with vertical bars corresponding to the magnitude of the detected leak. A powerful microprocessor automatically selects the best operating conditions for the sensor. This ensures optimum performance and is monitored throughout the life of the sensor.  
Detects all refrigerants (CFC's, HCFC's, & HFC's).  
Battery life approx 60 hours continuous use.

Part No	Description	CO <sub>2</sub>	R134a
41-0118	Elke® Leak Sniffer/Detector		



Electronic. Min sensitivity 6g/yr  
Tests **R744** **CO<sub>2</sub>** refrigerant.  
Warm up time 45s.

Part No	Description	Hydrogen
41-0077	Elke® Hydrogen Detector	



Electronic.  
Tests **Hydrogen** gas only. Used with Nitrotrace® or any other Nitrogen/Hydrogen testing equipment

# Refrigerant Identifiers

Part No	Description	R134a
41-0062	Mini Refrigerant Identifier	

- Portable design.
- Pass/Fail -95% pure
- **R134a** sample hoses
- 12v battery connections
- LED display
- Moulded ABS case
- Weight 800 grams
- SAE J2771 pending

Reliable portable instrument for verifying the quality of **R134a** refrigerants in automotive systems. Easy to understand 'Pass or Fail' indication system that tests if the refrigerant is above or below 95% purity.



Part No	Description
41-0109	Santech® MT3700 Pressure Transducer Tester

- Portable design
- Battery powered
- Moulded ABS case
- LED display

This tester can be placed in-line between the transducer and wiring harness connector. The unit has ECM mode which reads the voltage and manual mode that can change input signals for vehicle operations like A/C, fan clutch or cooling fan operations. It can be used on any transducer using a three wire sensor with a 5V power and reference signal return to the ECM. The kit includes dedicated Chrysler, Ford and GM connectors; and one set of universal leads.



## Refrigerant Identifiers

Part No	Description	HFO1234yf	R134, R12, R22, HC & AIR
41-0062A	Mini Refrigerant Identifier		

- Easy to use with 'PASS' or 'FAIL' LED indication
- 'FAULT' and 'EXCESS AIR' LEDs
- Step by step LED indications of the gas sampling process
- Compact and lightweight design
- Rugged construction and housing
- Hand-held and extremely portable

The new, low cost Mini ID Refrigerant Identifier helps verify the presence and quality of **HFO1234yf** refrigerant in vehicle air conditioning systems thus preventing possible contamination and damage to service and recovery equipment.

The Mini ID delivers fast and accurate refrigerant analysing. It is self contained, compact and comes in an extremely portable and rugged ABS case and is very simple to use.



### Technical Specifications

- Weight: 8.0 lb
- Power requirements: 12-15VDC, Optional battery pack (Internal)
- Output: Digital display and LEDs
- Refrigerant: **HFO1234yf**, R12, **R134a**, R22, HC and Air
- Display: 128 x 64 Pixel Graphing
- Resolution: 0.1%
- Operating humidity: 0-95% RH non-condensing
- Operating temperature: 40°F to 130°F
- Warranty: 1 yr.
- Approvals: SAE J1771, CE, UL

Compact and lightweight design

Rugged and tough design

Hand-Held and extremely portable



Easy to use 'PASS' or 'FAIL' result indication

'FAULT' & 'EXCESS AIR' indication

Simple gas Indication while Sampling

# Refrigerant Identifiers & Thermometers

## Refrigerant Identifiers

Part No	Description	HFO1234yf	R134a, R12, R22, HC & AIR
41-0040A	Ultima ID® Refrigerant Identifier		

- Built-in printer.
- Exceptionally portable.
- Car battery clips.
- Identifies EPA S.N.A.P. approved blends on large digital display.
- Versatile and easy-to-use.

### Technical Specifications

- Display: 128 x 64 pixel  
Graphing resolution: 1%
- Operating humidity:  
0-95% RH non-condensing
- Operating temperature  
4-54°C
- Weight: 3.65 kg.
- Power requirements:  
12-15V DC
- Output: Digital display and LED's.
- Refrigerant: **HFO1234yf**, R12, **R134a**, R22, HC and EPA S.N.A.P. approved blends



After years of research and development, Neutronics® have taken refrigerant identification to the next level and set the standard for performance, accuracy and portability.

This new Refrigerant Identifier is the most advanced A/C service tool on the market. It's smarter, faster and more portable than any refrigerant identifier you've ever used.

Innovative and ergonomic - Neutronics® unique design and special capabilities deliver the features and benefits today's professional A/C technicians want.

With exclusive "Blend ID" software - the Neutronics Ultima ID® uses infrared (NDIR) technology to determine the weight concentrations of **HFO1234yf**, R12, **R134a**, R22, hydrocarbons and air. It also features exclusive "Blend ID" analytical software, which quickly and accurately indicates the presence of EPA S.N.A.P. approved blend refrigerants.

## Mastercool® Infrared Thermometer

Part No	Description
41-9701	IR801 Digital Thermometer

Infrared.  
50/+550°C.  
Accuracy  
+/-2%.



## Digital Thermometer

Part No	Description
41-9700	Digital Thermometer

With wired  
probe  
-30/+50°C.  
DC 1.5v



## Digital Pencil Thermometer

Part No	Description
41-9702	Digital Pencil Thermometer

-50/+300°C.  
Accuracy +/- 1°C  
Auto off after  
40mins of no  
operation.



## Smart Test Gauge

Part No	Description	R134a
41-3008A	Smart Test Gauge	

An ideal tester to investigate the quantity of refrigerant gas inside the system. (Use with 41-1060C Coupler)



## Diagnostic Sight Glass

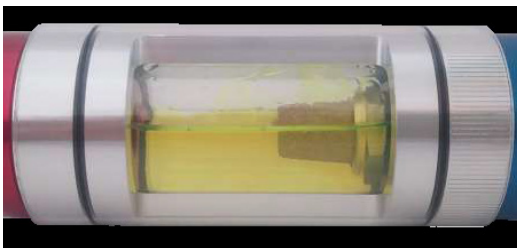
Part No	Description
41-0107	Elke® <b>R134a</b> Diagnostic Sight Glass Kit
41-0107A	Elke® <b>HFO1234yf</b> Diagnostic Sight Glass Kit

Ideal to help perform a diagnosis of the system and verify impurities such as humidity, presence of leak-stop, gas and contaminated lubricant.

Kit includes  
1x Sight Glass®,  
2x HP & 1x LP coupler,  
1x red and 1x blue  
40cm hoses and  
carry case.



**CLEAN SYSTEM**



**PRESENCE OF UV  
ADDITIVE**



**PRESENCE OF  
IMPURITIES/DEBRIS**



**PRESENCE OF  
HUMIDITY**

# Compressor Diagnostics

## Valtest® Diagnostic Tool

Part No	Description
41-1997	Valtest® 371 Clutch-less Compressor Diagnostic Tool

Effectively diagnose the new generation of electronically controlled A/C Compressors. A must have for any A/C technician.



### Product details:

- Helps diagnose failing A/C systems with electronically controlled compressors.
- Performs a quick and easy to understand analysis of the compressors operation.
- Measures the strength of the electronic control unit signal.
- Measures the functionality of the control valve by determining whether there is a short circuit or open circuit.
- Identifies whether the failure is in the ECU or the compressor.

### Installation:

- Connect the charging station manometers to perform compressor pressure measurements.
- Disconnect the compressor from the ECU.
- Connect the compressor to the Valtest® unit.
- Connect the output of the ECU to the Valtest® unit.

### Tests:

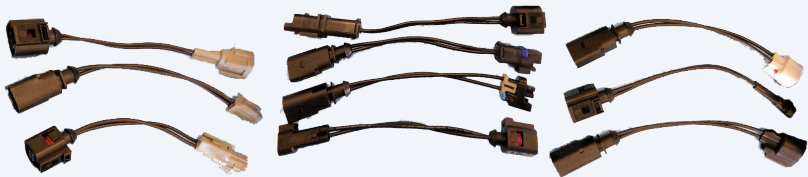
- Turn on the Valtest® and verify the condition of the valve. A short circuit or open circuit will be detected.
- Start the vehicle. Turn on the air-conditioning and then the Valtest® unit.
- Reduce and increase the signal with the + and - controls to verify the pressure value.

### Test Results:

- If OC/LO is displayed on the Valtest then the valve must be replaced.
- If the compressor works normally there is a fault in the Electronic Control Unit (ECU).
- If the compressor does not work you need to verify the state of the valve & replace it.
- If the compressor still does not work it will need to be replaced.

Part No	Description
41-1995	Valtest® 371 Extras Pack

Valtest® 371 Adaptor kit. Provides extra plugs and Connector looms for compressors.



## Cooltest® A/C Diagnostic Tool

Part No	Description
41-1996	Cooltest® 711 Digital Fault Detector for Vehicle A/C Systems



### Cool Test® 711 Product details:

- Saves time troubleshooting vehicle A/C systems.
- Simple to use, does not require extensive training.
- Working Pressure – 30/450 PSI
- Accurate to +/- 1 PSI
- Working temperature 60c
- Displays both low and high pressure reading
- Maximum Pressure 1000 PSI

### Instructions for connecting to A/C system:

1. Close both valves (Red & Blue) and connect hose to the ports on the coolest A/C Diagnostic Tool.
2. Connect electrical cables to the positive and negative terminals on the vehicle battery, being careful of correct connection.
3. Attach temperature sensor to central air outlet inside the vehicle.

### Accurately diagnoses the following conditions:

#### With Compressor off:

- Refrigerant leakage
- Lack of refrigerant in system

#### With Compressor on:

- Low compression or no compression
- Clogged expansion valve
- Electric cooling fan not working
- Refrigerant overcharge
- Condenser panel dirty
- Clogged receiver drier
- Low system pressure

### Checking for gas leakage using a vacuum pump:

- A. Connect the coolest® A/C Diagnostic Tool to the vehicle.
- B. Connect third hose to the central port of the cool test A/C Diagnostic tool and the other end of the vacuum pump.
- C. Wait until the two pressure indicators show 10 PSI. Close the red and blue valves and observe.

# Recycle Guards

## Airsept Recycle Guard®

Part No	Description
41-0016	Recycle Guard®

A/C system sealants and stop-leak products can disable and seriously damage expensive A/C service equipment.

The Recycle Guard® traps sealant, dye and other contaminants as they leave the HVAC system, preventing service equipment damage.

- Traps stop-leak and seal swelling sealants
- Maintains refrigerant flow
- Easy drain and replaceable filters for long life



41-0016A  
Replacement  
filter for 41-0016



## Airsept Recycle Guard®

Part No	Description
41-0120	Dual Automatic Recycle Guard®

A/C system sealants and stop-leak products can disable and seriously damage expensive A/C service equipment.

The Recycle Guard traps sealant, dye and other contaminants as they leave the HVAC system, preventing service equipment damage. The unit automatically switches from recover to recharge, allowing use of fully automatic A/C machines.

- No technician input required - switches automatically from recover to recharge.
- One unit recovers from both High and Low sides simultaneously.
- Traps Metal shavings, desiccant particles and other harmful debris that you will rarely know in advance is contained in a vehicles system.
- Maintains refrigerant flow.



## Neutronics® Sealant Detector

Part No	Description
41-0017	Neutronics Quick Detect®

The Quick Detect® is designed to detect the presence of harmful Type II sealants at the high side service port of the A/C system.

The Quick Detect® uses disposable cartridges in conjunction with flow measurement to determine the presence of active sealant.

Quick Detect® is designed to mimic an A/C leak. If sealant is present in the system, it will quickly solidify in the disposable test cartridge and cause the flow meter to show "no flow".



41-0017A  
Replacement  
tips for 41-0017



## CPS® A/C System Performance Inspector

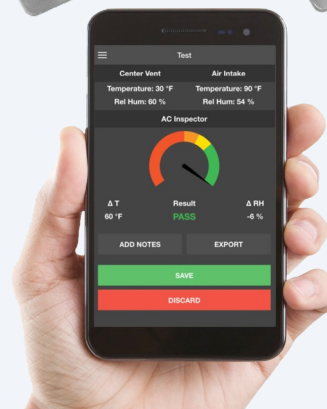
Part No	Description
41-1994	CPS® Car Smart A/C Inspector

The CarSmart A/C Inspector from CPS® Products Inc. is designed to provide quick and easy non-invasive A/C system performance analysis.

Simply attach the red clip outside to the front of the grill near the condenser and the blue clip to the centre cabin vent inside and you are ready to go.

In two minutes the CarSmart A/C Inspector (TACI100) compares outside humidity and temperature of the air from the A/C vent to determine whether the A/C system is operating within original equipment manufacturer specifications.

The information can be displayed on any smart phone through a CPS Link.



\*\*\*\*Phone not included\*\*\*\*

# Flushing Kits

## Flushing Kits

Part No	Description
41-50014	Flushing Kit with Adaptors

### Kit includes:

- 1 x flushing canister and gun.  
(Also available separately 41-50014A).
- 1 x container for used flush.
- 1 x storage box.
- 1 x yellow flex hose.
- 2 x flushing adaptors  
(Also available separately 41-1005).
- Requires flushing fluid (sold separately).



Part No	Description
41-50020	Nitrogen Flushing Kit

### Kit includes:

- 1 x flush canister and gun.  
(Also available separately 41-50014A).
- 1 x yellow flex hose.
- 1 x nitrogen cylinder.  
(Also available separately 41-50019).
- 1 x pressure regulator for 1ltr cylinder.
- 1 x self contained storage cage.



# Flushing Equipment & Fluids

## Flushing Equipment & Fluids

Part No	Description	Part No	Description
41-50015A	Flushing Fluid 1ltr Flammable	41-50015	Flushing Fluid Non-Flammable



Evaporates very fast. Removes all oil residuals, rust, damp and waste. For all systems.



Removes all oil residuals, rust, damp and waste. For all systems.

Part No	Description	Part No	Description
41-50018	Flushing Fluid 5ltr flammable	41-50014A	Flush Canister with Gun



Evaporates very fast. Removes all oil residuals, rust, damp and waste. For all systems.



See 41-50014 & 41-50020 for full kits. Flush canister is designed to be connected to an air-line and filled with flushing fluid. Flushing fluid available separately.

Part No	Description	Part No	Description
41-50017	Flush Spray	41-50016	Flush Gun



Perfect for flushing small refrigerant systems. Canister is able to maintain a pressure of 6 bar. 600ml. (41-0016 flush gun also required)



With re-usable hose and adaptor. (Use with flush 41-50017).

Part No	Description	Part No	Description
41-50019	Replacement Nitrogen Cylinder	41-50013	Flush/OFN Leak Gauge Adaptor



(Use with 41-50020)



Spare adaptor for use with 50014A & 44-93025A/C/B. Thread 1/4MF x 1/4 NPT

41-1005	Flush Adaptor Clamps
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Approx 4 adaptor plates and 2 bungs per unit.

# Anti Bacterial Equipment

## Anti-Bacterial Sprays

Part No

42-140502B



### Elke® Anti-Bacterial Spray

Removes harmful bacteria and bad smells. Foam is designed to be sprayed in behind the pollen filter while the blower motor is activated and vents opened. 50ml.

Part No

42-140502A



### Elke® Anti-Bacterial Spray

Removes harmful bacteria and bad smells. Foam is designed to be sprayed in behind the pollen filter while the blower motor is activated and vents opened. 400ml.

Part No

42-140502



### Airco Breeze® Pro

(The original) Anti-bacterial spray. Neutral odour. Supplied with a tube to reach into the evaporator chamber and sanitise the vehicle interior by removing harmful bacteria and bad smells. Approximately 3 applications. 250ml.

## Anti-Bacterial Bombs

Part No

42-140505



### Anti-Bacterial Bomb

Lavender Fragrance. One shot application. The can is designed to be left in a foot-well while the air-conditioning is running to cleanse and eliminate bacterial odours. 200ml.

Part No

42-140505V



### Anti-Bacterial Bomb

Vanilla Fragrance. One shot application. The can is designed to be left in a foot-well while the air-conditioning is running to cleanse and eliminate bacterial odours. 200ml.

Part No

42-140505P



### Anti-Bacterial Bomb

Pine Fragrance. One shot application. The can is designed to be left in a foot-well while the air-conditioning is running to cleanse and eliminate bacterial odours. 200ml.

Part No

42-140505S



### Anti-Bacterial Bomb

Mint Fragrance. One shot application. The can is designed to be left in a foot-well while the air-conditioning is running to cleanse and eliminate bacterial odours. 200ml.

## Sanitising Machines

Part No	Description	Part No	Description
41-0111	Elke® Nephos Sanitising Machine	41-0083	Ultrasonic Ozone Machine



- Ultrasonic technology assures an effective and totally safe treatment.
- A major advantage of this system is that the generated fine mist spray particles do not settle on surfaces.
- Please see below for the available refills.



- Eliminates bad odours from interior surfaces.
- Quickly kills bacteria, mould, spores and parasites.
- Maintenance free/consumables free.
- Approx 15-30 minutes required to service car/commercial.
- Size 205x175x150. Weight 2kg. Atomised Liquid about 120ml/h.

### **WARNING:**

Do not run when people and pets are present.

## Sanitising Machine Refills

Part No	Part No	Part No
41-0112	41-0113	41-0114



### Lavender Fragrance.

Box of 24 30ml refreshing liquids to be used with Elke® Nephos machines.



### White Musk Fragrance.

Box of 24 30ml refreshing liquids to be used with Elke® Nephos® machines.



### Pine Fragrance.

Box of 24 30ml refreshing liquids to be used with Elke® Nephos machines.

# Leak Stop & Detection

## Leak Stop & Leak Detection Fluids

Part No	Description	R134a
41-0002	Airco Seal Pro® Air Con Sealer	

Permanently stops micro leaks in both metal and elastomeric parts in automotive A/C systems.



Great for medium to large vehicles and prevents future leaks developing. Stops small leaks in R134a systems. 1 can treats 1 car.

Part No	Description	R134a
41-0002A	Elke® Air Con Sealer	
41-0002B	Elke® Air Con Sealer	HFO1234yf

Stops small leaks (micro leaks approx 3 weeks from charge to discharge) in A/C systems. 1 can treats 1 car. Permanently stops micro leaks in both metal and elastomeric parts in automotive A/C systems.



Part No	Description	R134a
41-2031	Leak Stop Syringe	



Single use. Includes leak stop. 30ml. R134a (Use with part no. 42-0014 below).

Part No	Description	HFO1234yf
42-0015	Leak Stop Syringe	



Single Use. Includes leak stop. 30ml. HFO1234yf (Use with part no. 42-0014 below).

42-0014	Hose
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Includes check valve and R134a quick coupler.

42-0014B	
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Includes check valve and HFO1234yf quick coupler.

Part No	Description
41-1117	Elke® Bubble Leak Locator

Assists in finding leaks by visibly bubbling. For use on all pressurised A/C systems. 1ltr



Part No	Description
41-1118	Elke® Leak Locator Foam Spray

Assists in finding leaks on all pressurised A/C systems. 400ml



## Performance Enhancers

Part No	Description
41-2009	Acidity Test Kit

The Acidity test is suitable for all lubricants in refrigeration systems. Kit contains two tests.



### How to Use:

1. Fill one of the two containers (containing the activator) with 10ml of oil.
2. Use the pipette to slowly add 0.5ml of determiner at a time while shaking contents.
3. Shake until solution becomes purple.
4. Results:
  - Low if 0.5ml added.
  - Average if 1ml added.
  - High if 1.5ml and above.
5. Replacement of oil and flush required if 5.0 and above.

Part No	Description	HFO1234yf	R134a
41-2006	Cool-Shot® Vehicle Air-Con Enhancer		



Contains 1x 30ml cartridge and flex adaptor for R134a systems. Compatible with all R134a & HFO1234yf A/C systems.

- Produces colder air, faster! Especially effective with older A/C systems.
- Reduces vent temperatures 3°C - 9°C.
- Reduces CO2 emissions and extends the life of the AC system.
- Up to 5°C hotter when air conditioner is in heat-pump mode.

# Manifold Gauges & Kits

## Manifold Gauges & Kits

Part No	Description	R134a
41-3007	Mastercool® 2-way Manifold Gauge Set	

Kit includes 2 way manifold gauge, 1.8m F1/4 yellow, red and blue charge hoses. high and low **R134a** couplers included.



Part No	Description	R134a
41-3007A	Elke® 2-Way Manifold Gauge Set	

Kit includes 2 way manifold gauge. 1.8m F1/4 yellow, red & blue charge hoses. High & low **R134a** couplers. Tech spec on gauge: 3x 1/4 SAE. Gauge diameter 80mm. Refrigerant range: R22, **R134a**, R404a & R407c. Plastic carry case.



Part No	Description	R134a
41-3007B	Elke® 4-Way Manifold Gauge Set	

Kit includes 4 way manifold gauge. 1.8m F1/4 yellow, red & blue charge hoses. High and low **R134a** couplers. Tech spec on gauge: 4x 1/4 SAE. Gauge diameter 80mm. Refrigerant range: R22, **R134a**, R404a & R407c. Plastic carry case.



Part No	Description	HFO1234yf
41-1064	Elke® 4-Way Manifold Gauge Set	

Kit includes 4 way manifold. 1.8m yellow, red & blue charge hose. High and low **HFO1234yf** couplers included. Plastic carry case.



Part No	Description	HFO1234yf	R134a
41-1063	Elke® 4-Way Manifold Gauge		

4 way gauges only.  
**HFO1234yf** and **R134a**.



## Recovery Units & Vacuum Pumps

Part No	Description	R134a	Part No	Description	R134a
48-0001B	Elke® Recovery Unit		48-0001	Mastercool® Recovery Unit	



Oil-less, air-cooled, piston recovery unit for **R134a** refrigerant.  
Supplied with oil separator.  
Size 400 x 250 x 360.  
Weight 13.5kg. 240V.  
(Spare filter available 41-0087)



Automatic low pressure cut out. Compatible with all refrigerants CFC's, HCFC's and HFC's.  
Purging function. Oil-less.  
complete with refrigerant hoses.  
Fully automatic with liquid and vapour recovery.  
Polyethylene housing with carry handle. 240V.

Part No	Description	HFO1234yf	Part No	Description	HFO1234yf
48-0006A	Elke® Recovery Unit		48-0006	CPS® TRS21E Recovery Unit	



Oil-less **R134a** & **HFO1234yf** refrigerant recovery unit. Piston. Air-cooled.  
Removable filter. Yellow hose supplied.  
Category 1,2 and 3 refrigerants supported.  
Size 400 x 250 x 360.  
Weight 13.5kg.  
240V  
(Spare filter available 41-0087)



Ignition Proof. For use on refrigerant systems utilizing Class A1, R32, **R1234yf** and R1234ze.  
Maintenance free oil-less compressor. Permanently lubricated and sealed main bearings. Improved piston seal design for less leakage and deeper vacuums. High pressure cut-off switch with LED indicator. Cleanable mesh inlet filter. Fastest recovery rates in its class. Ignition proof ON-OFF switch. Sealed start relay. 240/220V 9.8 ft. (3m) power cord. Meets ANSI 12:12.01. CE, TUV listed.

# Recovery & Vacuum Kits

## Recovery Units & Vacuum Pumps

Part No	Description
48-0001A	Mastercool® Recovery Mate

Speed up the recovery process!  
Remove unwanted moisture and separate oil from recovered refrigerant.  
(Use with any recovery machine).  
High-performance dryer eliminates moisture from refrigerant.  
Extra large sight glass monitors refrigerant flow & changes colour when dryer change is necessary.  
Supplied in a rugged case.



Part No	Description	Part No	Description
48-0002	Mastercool® Vacuum Pump	48-0002A	Elke® Vacuum Pump



3.0cfm. 2 Stage. 15 Microns. 71 l/min.  
Intake fittings 1/4, 3/8 SAE & 1/2 ACME.  
Oil capacity 280ml.  
Size 280 x 122 x 220.  
Weight 7kg



2.5cfm. 2 Stage. 25 Microns. 70 l/min.  
Intake fittings 1/4 Flare  
Oil capacity 280ml.  
Size 280 x 122 x 220.  
Weight 7kg

## Charging and Recovery Equipment & Fluids

Part No	Description	Part No
41-1004	TIF9010A Portable Electronic Scales	41-1135



50kg max. Supplied in a sturdy plastic carry case.  
Ideal for mobile engineers.



Metal Hand Turn Oil/Dye Injector.  
1/2" ACME hose connection.  
60ml capacity.

Part No
41-1136



Metal Hand Turn Oil/Dye Injector.  
1/4" BSP hose connection.  
60ml capacity.

Part No	Part No	Part No	R134a
41-1004A	41-3003	41-1138	



Supplied in a case

Elke® Electronic scales.  
100kg max. Accuracy 0.5%+/-  
of value. Resolution 10g.  
Ideal for mobile engineers.



Heater Blanket.  
For use on A/C bottles, not  
beds!



HD Metal Hand Turn Injector.  
Injects oil/dye with R134a low side  
quick coupler. Approx 30ml capacity

Part No	R134a
41-1139	



Budget Plastic Syringe Dye Injector.  
All-in-one with low side R134a  
plastic coupler. 60ml Capacity.

Part No	Part No	Part No	HFO1234yf
41-3038	41-0004	41-1160	



Recovery Cylinder.  
13ltr capacity,  
1/4" Fitting.  
Max pressure 46.5 bar.  
Weight 8KG.



Universal Vacuum Oil.  
For all brands of vacuum  
pumps. Contains  
inhibitors/conditioners for  
better wear protection. 1ltr



HD Metal Hand Turn Injector.  
Oil/dye with low side HFO1234yf  
quick coupler. Approx 30ml capacity

Part No	R134a
41-1161	



HD Metal Hand Turn Injector.  
Injects oil/dye with low side R134a  
quick coupler. Swivel 45° hose  
connection for hard to reach service  
ports. 60ml capacity.

# OFN & Nitrotrace Kits

## R134a OFN Leak Testing

Part No	Description	R134a
44-93025A	10 Bar OFN Kit (Oxygen Free Nitrogen)	

Kit Includes:

- 10 Bar gauge/pressure regulator (44-93025C)
- Hose to gauge adaptor (41-50013)
- Blue 1/4" SAE charge hose (42-9260)
- Low side snap seal coupler (41-1060C)



## HFO1234yf OFN Leak Testing

Part No	Description	HFO1234yf
44-93025D	10 Bar OFN Kit (Oxygen Free Nitrogen)	

Kit Includes:

- 10 Bar gauge/pressure regulator (44-93025C)
- Hose to gauge adaptor (41-50013)
- Blue 1/4" SAE charge hose (42-9260)
- Low side snap seal coupler (41-1061) and adaptor (41-1065)



Part No	Description	Part No	Description
44-93025C	10 Bar OFN Gauge	44-93025B	50 Bar OFN Gauge

For 5ltr nitrogen cylinders with 1/4" SAE hose connection.



For 5ltr nitrogen cylinders with 1/4" SAE hose connection.



(50 Bar gauge shows 100bar)

Part No	Description	Part No	Description
41-1060	1/4 SAE Low Side Quick Coupler	42-9260	Low Side Charging Hose

Manual with tap. **R134a**

\*For a **HFO1234yf** system you will require a 41-1061 low side coupler and a 41-1065 adaptor.



Blue 1.8m (72")  
F1/4 SAE° x F1/4  
SAE 45°.



## Nitro Trace Leak Testing

Part No	Description
41-0076	Nitro Trace® Gas 1ltr Replacement Cylinder
41-0076A	Nitro Trace® Gas 2.2ltr Replacement Cylinder

Portable Nitro trace® cylinder.

- A mix of nitrogen and hydrogen gas.



41-0076



41-0076A

## Nitro Trace Leak Testing

Part No	Description
41-0078A	Nitro Trace 1ltr Kit

### Kit Includes:

- H2 leak detector  
(also available separately 41-0077).
- High pressure N2 regulator  
(also available separately 44-93025B).
- 90 cm hose with fitting.
- N2 pressure testing gauge.
- 2019> kits include R134a and HFO1234yf coupler.
- Portable 1ltr nitro trace cylinder  
(a mix of nitrogen and hydrogen gas also available separately 41-0076).
- Supplied in a sturdy carry case.



## Nitro Trace Leak Testing

Part No	Description
41-0078B	Nitro Trace 2.2ltr Kit

### Kit Includes:

- H2 leak detector  
(also available separately 41-0077).
- High pressure N2 regulator  
(also available separately 44-93025B).
- 90 cm hose with fitting.
- N2 pressure testing gauge.
- 2019> kits include R134a and HFO1234yf coupler.
- Portable 2.2ltr nitro trace cylinder  
(a mix of nitrogen and hydrogen gas also available separately 41-0076A).
- Supplied in a sturdy carry case.



# R134a Couplers & Hoses

## Snap Couplers & Extensions

Part No	R134a	Part No	R134a	Part No	R134a
41-1060		41-1059		41-1059A	
					
1/4 SAE Low Side Manual Quick Coupler with Tap.		1/4 SAE High Side Manual Quick Coupler with Tap.		M14 Premium Quality High Side Manual Quick Coupler.	
Part No	R134a	Part No	R134a	Part No	R134a
41-1060A		41-1059B		41-1060B	
					
M14 Premium Quality Low Side Manual Quick Coupler.		3/8 SAE High Side Manual Quick Coupler.		3/8 SAE Low Side Manual Quick Coupler.	
Part No	R134a	Part No	R134a	Part No	R134a
41-1059C		41-1060C		41-1060D	
					
M14 Eco High Side Manual Quick Coupler. Includes adaptor (44-AAG1014) M14 x Acme M1/4 SAE.		M14 Eco Low Side Manual Quick Coupler. Includes adaptor (44-AAG1014) M14 x Acme M1/4 SAE.		1/4 Eco Low Side Manual Straight Coupler.	
Part No	R134a	Part No	R134a	Part No	R134a
41-0057		41-0057A		41-0027	
					
Premium High Side Snap Extension. Extra long for BMW Volvo/Ford/Mercedes applications.		Budget Fixed High Side Extension Coupler. Extra long for BMW Volvo/Ford/Mercedes applications.		High Side to Low Side Straight Adaptor. For Renault applications.	

# R134a Couplers & Hoses

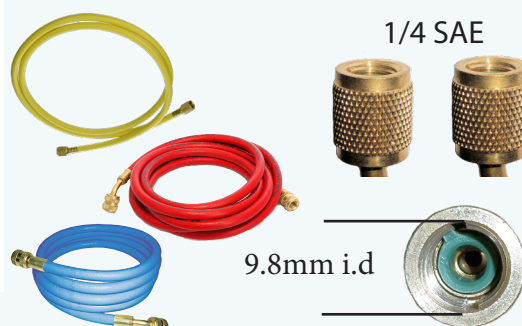
## R134a Hoses

\*\* All diagram measurements are approximate

### F $\frac{1}{4}$ SAE Hoses

R134a

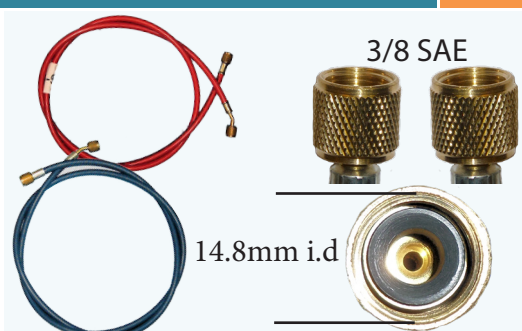
Part No	Size	Description & Hose Colour
42-9196	1.8m	F $\frac{1}{4}$ SAE 180° X F $\frac{1}{4}$ SAE 45°
42-9260	1.8m	F $\frac{1}{4}$ SAE 180° X F $\frac{1}{4}$ SAE 45°
42-9295	1.8m	F $\frac{1}{4}$ SAE 180° X F $\frac{1}{4}$ SAE 45°
42-9196E	3m	F $\frac{1}{4}$ SAE 180° X F $\frac{1}{4}$ SAE 45°
42-9260E	3m	F $\frac{1}{4}$ SAE 180° X F $\frac{1}{4}$ SAE 45°
42-9196A	4m	F $\frac{1}{4}$ SAE 180° X F $\frac{1}{4}$ SAE 45°
42-9260A	4m	F $\frac{1}{4}$ SAE 180° X F $\frac{1}{4}$ SAE 45°



### F $\frac{3}{8}$ SAE Hoses

R134a

Part No	Size	Description & Hose Colour
44-9000	1.8m	F $\frac{3}{8}$ SAE 180° X F $\frac{3}{8}$ SAE 180°
44-9001	1.8m	F $\frac{3}{8}$ SAE 180° X F $\frac{3}{8}$ SAE 180°
44-9000A	3.0m	F $\frac{3}{8}$ SAE 180° X F $\frac{3}{8}$ SAE 45°
44-9001A	3.0m	F $\frac{3}{8}$ SAE 180° X F $\frac{3}{8}$ SAE 45°



### F $\frac{1}{2}$ ACME X M14 Hoses

R134a

Part No	Size	Description & Hose Colour
41-1101	1.8m	F $\frac{1}{2}$ ACME 180° X M14 180°
41-1100	1.8m	F $\frac{1}{2}$ ACME 180° X M14 180°
42-9196B	2.5m	F $\frac{1}{2}$ ACME 180° X M14 180°
42-9260B	2.5m	F $\frac{1}{2}$ ACME 180° X M14 180°
41-1101A	4m	F $\frac{1}{2}$ ACME 180° X M14 180°
41-1100A	4m	F $\frac{1}{2}$ ACME 180° X M14 180°



### $\frac{1}{2}$ ACME X $\frac{1}{2}$ ACME Hose

R134a

Part No	Size	Description & Colour
41-AAG1112	1.8m	F $\frac{1}{2}$ ACME 180°XF $\frac{1}{2}$ ACME 180°



### Hose Extras

Part No
---------

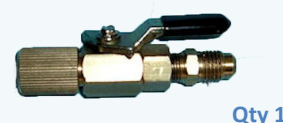
42-AAG1002  
Replacement Rubber O-ring  
For  $\frac{1}{4}$  charging hoses.



44-1020  
 $\frac{1}{4}$  Male- $\frac{1}{4}$  Male Brass  
Adaptor.



42-AAG1001  
 $\frac{1}{4}$  Female -  $\frac{1}{4}$  Male  
Service Shut-Off valve.



# HFO1234YF Couplers & Hoses

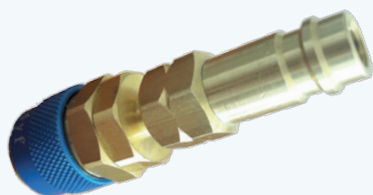
## Snap Couplers & Extensions

\*\* All diagram measurements are approximate

Part No	HFO1234yf	Part No	HFO1234yf	Part No	HFO1234yf
41-1062		41-1061		41-1061A	
					
High Side M12 Quick Coupler. Use 41-1065 to adapt this M12 coupler to 3/4 hose.		Low Side M12 Quick Coupler. Use 41-1065 to adapt this M12 coupler to 3/4 hose.		Budget Low Side M12 Quick Coupler. Use 41-1065 to adapt this M12 coupler to 3/4 hose.	
Part No	HFO1234yf	Part No	HFO1234yf	Part No	HFO1234yf
41-1062A		41-0057B		41-0057C	
					
Budget High Side M12 Quick Coupler. Use 41-1065 to adapt this M12 coupler to 3/4 hose.		Premium High Side Port Extension. Includes M12 adaptor.		Premium Low Side Port Extension. Includes M12 adaptor.	

## Budget Extension Coupler

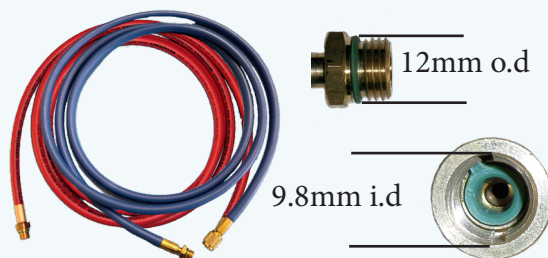
Part No	HFO1234yf
41-0057D	



Budget Low Side Port Extension.

## HFO1234yf Hoses

Part No	Size	Description	HFO1234yf
42-9161	2.5m	HFO1234yf M12 X F 3/4 SAE Hose	
42-9162	2.5m	HFO1234yf M12 X F 3/4 SAE Hose	




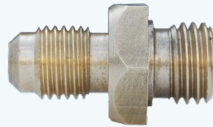
## Budget Extension Coupler

Part No	HFO1234yf
41-0057E	



Budget High Side Port Extension.

## HFO1234yf Hose Adaptors

Part No	Part No
41-1066	41-1065
	
M3/8 SAE X M12x1.5 Adaptor. Connects an M12 female HFO1234yf coupler to a R134a 3/8 female hose.	M1 1/4 SAE X M12x1.5 Adaptor. Connects an M12 female HFO1234yf coupler to a R134a 1/4 female hose.

## CO<sub>2</sub> R744 Snap Couplers & Hoses

Part No	Size		CO <sub>2</sub>	Part No	Size		CO <sub>2</sub>
41-1054	High			42-9198	High		
41-1055	Low			42-9199	Low		

Quick-coupler for CO<sub>2</sub> systems.

Use with CO<sub>2</sub> hoses only.

Hose for CO<sub>2</sub> systems.

Use with CO<sub>2</sub> Couplers only.

## Retro Adaptors

Part No	R134a	Part No	R134a	Part No	R134a
41-1132		41-1130		41-1129	
<p>1/4 High Side Straight Adaptor. For converting R12 to R134a. Can also be used as a bottle adaptor on 1/4 R134a applications.</p>		<p>1/4 Low Side Straight Adaptor. For converting R12 to R134a. Can also be used as a bottle adaptor on 1/4 R134a applications.</p>		<p>1/4 High Side 90° Adaptor. For converting R12 to R134a.</p>	
Part No	R134a	Part No	R134a	Part No	R134a
41-1131		41-1133		41-1134	
<p>1/4 Low Side 90° Adaptor. For converting R12 to R134a</p>		<p>3/16 High Side Adaptor. For converting R12 to R134a. Application mainly for (some) import vehicles.</p>		<p>3/16 High side 90° Adaptor. For Converting R12 to R134a. For application on some import vehicles.</p>	
Part No	R134a	Part No	R134a	Part No	R134a
41-AAG1100		41-AAG1101		41-AAG9987	
<p>High Side M12 x 1.25 Screw-in Charge Port. For Ford, GM and Chrysler.</p>		<p>Jaguar/Ford Low Side Valve/Service Port Adaptor M10 x 1.25.</p>		<p>Jaguar/Rover High Side Valve/Service Port M15 x 1.0. 41-AAG9888</p>	
					
				<p>Jaguar/Rover Low Side Valve/Service Port M13 x 1.0.</p>	

# Gas Bottle Adaptors

## Gas Bottle Adaptors

\*\* All diagram measurements are approximate

Part No	BOC	Part No	R134a	Part No	R134a
---------	-----	---------	-------	---------	-------

41-1014



21mm i.d

BOC Gas Bottle Adaptor  
1/4" Male to 3/4" female.  
Supplied with fibre washer

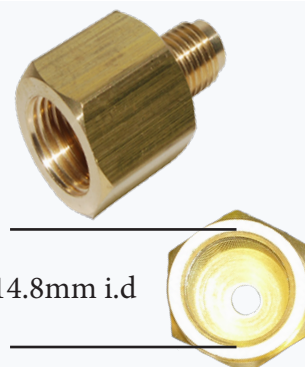
41-1027



9.8mm i.d

Gas Bottle Adaptor  
3/8" male to 1/4" female SAE

41-1028

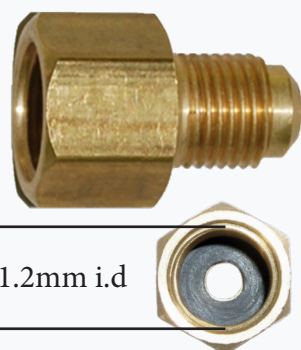


14.8mm i.d

Gas Bottle Adaptor  
1/4" male to 3/8" female SAE

Part No	R134a
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44-AAG1013



11.2mm i.d

Gas Bottle Adaptor  
1/4" male to 1/2" female ACME

Part No	R134a
---------	-------

44-AAG1012



9.8mm i.d

Gas Bottle Adaptor  
1/2" Male ACME to 1/4" female

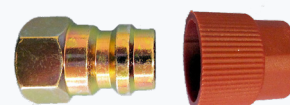
Part No	R134a
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41-1130



Low Side Bottle Adaptor  
Female 1/4"

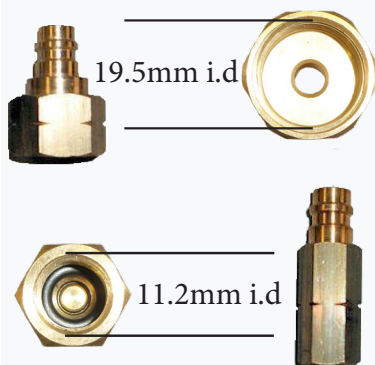
41-1132



High Side Bottle Adaptor  
Female 1/4"

Part No	HFO1234yf
---------	-----------

44-3017



19.5mm i.d

11.2mm i.d

Low Side Bottle Adaptors.  
For DuPont and Honeywell gas  
bottles (LH Thread)

Part No	HFO1234yf
---------	-----------

44-3018



19.5mm i.d

11.2mm i.d

High Side Bottle Adaptors.  
For DuPont and Honeywell gas  
bottles (LH Thread)

Part No	HFO1234yf
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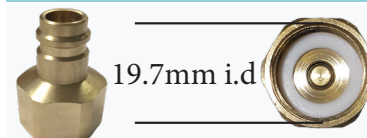
44-3019



19.7mm i.d

Low Side Bottle Adaptor  
DuPont & Honeywell (LH Thread)  
Fits gas bottles from July 2015

44-3020



19.7mm i.d













High Side Bottle Adaptor  
DuPont & Honeywell (LH Thread)  
Fits gas bottles from July 2015

# Valve Cores & Valve Core Kits










## Valve Core Kits

Part No	Description	HFO1234yf	R134a
41-1009A	76 Piece Valve Core Kit (Parts also sold individually)		

 <p><b>41-1019</b> Length 19mm Diameter 5.12mm (standard for many applications)</p> <p>Qty 20</p>	 <p><b>41-5383A</b> M8 Neoprene seal. Length 21.5mm Diameter 7.8mm</p> <p>Qty 10</p>	 <p><b>41-5383</b> JRA import M6. Length 20mm Diameter 7.0mm</p> <p>Qty 5</p>	 <p><b>41-5384</b> Length 18.7mm Diameter 6.0mm (GM, porsche. Gold with black band)</p> <p>Qty 5</p>
 <p><b>41-5385</b> Length 21.8mm Diameter 8.0mm (black band)</p> <p>Qty 5</p>	 <p><b>41-5386</b> Length 22.1mm Diameter 9.8mm</p> <p>Qty 5</p>	 <p><b>HFO1234yf</b> <b>41-5387</b> Length 18.35mm Diameter 5.1mm (Renault)</p> <p>Qty 5</p>	 <p><b>HFO1234yf</b> <b>41-5388</b> Length 27.15mm Diameter 7.8mm (BMW, Mini, Rover, Mercedes, Audi, VW.)</p> <p>Qty 5</p>
 <p><b>HFO1234yf</b> <b>41-5389</b> Length 18.5mm Diameter 6.5mm (Kia, Hyundai. Gold with black band)</p> <p>Qty 5</p>	 <p><b>HFO1234yf</b> <b>41-5390</b> Length 19.0mm Diameter 5.12mm (Standard Schrader)</p> <p>Qty 5</p>	 <p><b>HFO1234yf</b> <b>41-5391</b> Length 21.8mm Diameter 8.0mm (Dark red band)</p> <p>Qty 3</p>	 <p><b>HFO1234yf</b> <b>41-5392</b> Length 22.1mm Diameter 9.8mm (2 Dark red bands)</p> <p>Qty 3</p>

Part No	Description	R134a
41-1009	51 Piece Valve Core Kit (Parts also sold individually)	

 <p><b>41-1019</b> Length 19mm Diameter 5.12mm (standard for many applications)</p> <p>Qty 20</p>	 <p><b>41-5383A</b> M8 Neoprene seal. Length 21.5mm Diameter 7.8mm</p> <p>Qty 10</p>	 <p><b>41-5383</b> JRA import M6. Length 20mm Diameter 7.0mm</p> <p>Qty 5</p>	 <p><b>41-5384</b> Length 18.7mm Diameter 6.0mm (GM, porsche. Gold with black band)</p> <p>Qty 5</p>	 <p><b>41-5385</b> Length 21.8mm Diameter 8.0mm (black band)</p> <p>Qty 5</p>	 <p><b>41-5386</b> Length 22.1mm Diameter 9.8mm</p> <p>Qty 5</p>
<p><b>41-AAG1182</b> Schrader valve core removal tool</p>  <p>Qty 1</p>					

# Maintenance Kit

*Elke*




















Professional maintenance kit contains, 1x Universal o-ring kit (43-aag0357), Double o-ring kit (43-0358a), Valve core kit (inc valves, caps and tools), Springlock garter set and tools.

Part No	Description
43-AAG0357A	4 Tray, 604 Piece Professional Maintenance Kit (Parts also sold individually)

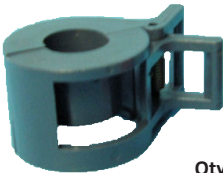


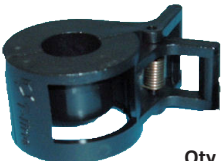

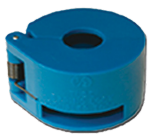






Tray 1							
<b>41-1000</b>  11.21mm o.d 7.65mm i.d 1.78mm Thick <b>Qty 15</b>	<b>41-1002</b>  17.5mm o.d 14.0mm i.d 1.78mm Thick <b>Qty 15</b>	<b>41-1001</b>  14.38mm o.d 10.82mm i.d 1.78mm Thick <b>Qty 15</b>	<b>41-1003</b>  20.73mm o.d 17.17mm i.d 1.78mm Thick <b>Qty 15</b>	<b>41-1201</b>  15.3mm o.d 10.3mm i.d 2.5mm Thick <b>Qty 15</b>	<b>41-1202</b>  9.14mm o.d 6.34mm i.d 1.4mm Thick <b>Qty 15</b>	<b>41-1203</b>  12.86mm o.d 9.3mm i.d 1.78mm Thick <b>Qty 15</b>	<b>41-1204</b>  7.95mm o.d 4.89mm i.d 1.53mm Thick <b>Qty 15</b>
<b>41-1205</b>  27.0mm o.d 20.4mm i.d 3.5mm Thick <b>Qty 15</b>	<b>41-1206</b>  18.3mm o.d 13.3mm i.d 2.5mm Thick <b>Qty 15</b>	<b>41-1207</b>  25.0mm o.d 20.0mm i.d 2.5mm Thick <b>Qty 15</b>	<b>41-1208</b>  11.8mm o.d 7.8mm i.d 2.0mm Thick <b>Qty 15</b>	<b>41-1209</b>  7.5mm o.d 4.5mm i.d 1.5mm Thick <b>Qty 15</b>	<b>41-1210</b>  11.92mm o.d 8.92mm i.d 1.5mm Thick <b>Qty 15</b>	<b>41-1211</b>  10.36mm o.d 6.8mm i.d 1.78mm Thick <b>Qty 15</b>	<b>41-1212</b>  22.0mm o.d 15.0mm i.d 3.5mm Thick <b>Qty 15</b>
<b>41-1213</b>  14.0mm o.d 9.0mm i.d 2.5mm Thick <b>Qty 15</b>	<b>41-1214</b>  10.9mm o.d 7.5mm i.d 1.7mm Thick <b>Qty 15</b>	<b>41-1215</b>  11.3mm o.d 6.3mm i.d 2.5mm Thick <b>Qty 15</b>	<b>41-1216</b>  10.5mm o.d 6.5mm i.d 2.0mm Thick <b>Qty 15</b>	<b>41-1217</b>  10.8mm o.d 7.5mm i.d 1.65mm Thick <b>Qty 15</b>	<b>41-1218</b>  23.0mm o.d 19.0mm i.d 2.0mm Thick <b>Qty 15</b>	<b>41-1219</b>  23.8mm o.d 18.5mm i.d 2.65mm Thick <b>Qty 15</b>	<b>41-1220</b>  20.7mm o.d 16.7mm i.d 2.0mm Thick <b>Qty 15</b>
<b>41-1221</b>  7.96mm o.d 4.4mm i.d 1.78mm Thick <b>Qty 15</b>	<b>41-1211</b>  10.36mm o.d 6.8mm i.d 1.78mm Thick <b>Qty 15</b>	<b>41-1223</b>  28.5mm o.d 21.5mm i.d 3.5mm Thick <b>Qty 15</b>	<b>41-1221</b>  7.96mm o.d 4.4mm i.d 1.78mm Thick <b>Qty 15</b>	<b>41-1207</b>  25.0mm o.d 20.0mm i.d 2.5mm Thick <b>Qty 15</b>			

Tray 2			
<b>41-1152</b>  Double lip G8 (Fiat) <b>Qty 5</b>	<b>41-1151</b>  Double lip G6 (Fiat) <b>Qty 5</b>	<b>41-1153</b>  Double lip G10 (Fiat) <b>Qty 5</b>	<b>41-1141</b>  Double lip (Pug/Cit 6460P0) <b>Qty 5</b>
<b>41-1142</b>  Double lip (Pug/Cit 6160P1) <b>Qty 5</b>	<b>41-1143</b>  Double lip (Ren 1-7001207274) <b>Qty 5</b>	<b>41-1144</b>  Double lip (Ren 2-7001207274) <b>Qty 5</b>	<b>41-1162</b>  Double lip (Ren 3-7001207274) <b>Qty 5</b>
<b>41-1111</b>  Brown seal 10.7mm o.d 7.5mm i.d (Daf,Fiat,Ren,Volvo) <b>Qty 3</b>	<b>41-1112</b>  Brown seal 14.3mm o.d 11mm i.d (Daf,Fiat,Ren,Volvo) <b>Qty 3</b>	<b>41-1113</b>  Brown seal 17.3mm o.d 13.8mm i.d (Daf,Fiat,Ren,Volvo) <b>Qty 3</b>	<b>41-1114</b>  Brown seal 20.3mm o.d 17.3mm i.d (Daf,Fiat,Ren,Volvo) <b>Qty 3</b>

## Tray 3




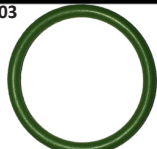








<b>41-1019</b>  Length 19mm Diameter 5.12mm (standard for many applications) <b>Qty 5</b>	<b>41-5383A</b>  M8 Neoprene seal. Length 21.5mm Diameter 7.8mm <b>Qty 5</b>	<b>41-5384</b>  Length 18.7mm Diameter 6.0mm (GM, porsche. Gold with black band) <b>Qty 5</b>	<b>41-1183</b>  Schrader valve core removal tool <b>Qty 1</b>		
<b>41-AAG9987</b>  Jaguar/Rover High side valve/service port M15x1.0 <b>Qty 2</b>	<b>41-AAG1101</b>  Jaguar/Ford Low side valve/service port adaptor M10x1.25 <b>Qty 2</b>	<b>41-AAG9888</b>  Jaguar/Rover Low side valve/service port M13x1.0 <b>Qty 2</b>	<b>41-AAG1100</b>  High side M12 x 1.25 screw in charge port for Ford, GM, Chrysler. <b>Qty 2</b>		
<b>41-4155</b>  Low side valve cap M9 x 1.0 R134a <b>Qty 5</b>	<b>41-4156</b>  High side valve cap M10 x 1.25 R134a <b>Qty 5</b>	<b>41-4155A</b>  Low side valve cap M8 x 1.5 R134a <b>Qty 5</b>	<b>41-4156A</b>  High side valve cap M8 x 1.7 R134a <b>Qty 5</b>	<b>41-4161</b>  Low side valve cap 9.0x1.0mm <b>Qty 5</b>	<b>41-4162</b>  High side valve cap 10.0x1.25mm <b>Qty 5</b>
<b>41-1057</b>  Cap for R12 system 1/4 <b>Qty 5</b>	<b>41-4158</b>  HP Cap M10x1.0 <b>Qty 5</b>	<b>41-4159</b>  LP Cap M8x1.0 <b>Qty 5</b>			

## Tray 4

<b>41-0011</b>  Springlock coupler G12 (Vauxhall) <b>Qty 1</b>	<b>41-1250</b>  Garter Spring #6 (Chrysler, Ford, Import) <b>Qty 10</b>	<b>42-6 SPRINGLOCK</b>  Springlock coupler G6 (Ford) <b>Qty 1</b>
<b>41-0012</b>  Springlock coupler G10 (Vauxhall) <b>Qty 1</b>	<b>41-1251</b>  Garter Spring #8 (Chrysler, Ford, Import) <b>Qty 10</b>	<b>42-8 SPRINGLOCK</b>  Springlock coupler G8 (Ford) <b>Qty 1</b>
<b>41-0011</b>  Springlock coupler G8 (Vauxhall) <b>Qty 1</b>	<b>41-1252</b>  Garter Spring #10 (Chrysler, Ford, Import) <b>Qty 10</b>	<b>42-10 SPRINGLOCK</b>  Springlock coupler G10 (Ford) <b>Qty 1</b>
<b>41-0012</b>  Springlock coupler G6 (Vauxhall) <b>Qty 1</b>	<b>41-1253</b>  Garter Spring #12 (Chrysler, Ford, Import) <b>Qty 10</b>	<b>42-12 SPRINGLOCK</b>  Springlock coupler G12 (Ford) <b>Qty 1</b>













# O-Rings & O-Ring Kits

## O-Ring Kits

Part No	Description		
43-AAG0357B	120 Piece O-Ring Kit (Some parts also sold individually)		
41-1000		11.21mm o.d X 7.65mm i.d 1.78mm Thick	Qty 10
41-1002		17.5mm o.d X 14.0mm i.d 1.78mm Thick	Qty 10
41-1001		14.38mm o.d X 10.82mm i.d 1.78mm Thick	Qty 10
41-1003		20.73mm o.d X 17.17mm i.d 1.78mm Thick	Qty 10
		14.86mm o.d X 10.26mm i.d 2.3mm Thick	Qty 10
		9.33mm o.d X 6.07mm i.d 1.63mm Thick	Qty 10
		12.81mm X 9.25mm i.d 1.78mm Thick	Qty 10
		8.3mm o.d X 5.1mm i.d 1.6mm Thick	Qty 10
		27.28mm o.d X 20.22mm i.d 3.53mm Thick	Qty 10
		24.1mm o.d X 19.18mm i.d 2.46mm Thick	Qty 10
		12.0mm o.d X 8.0mm i.d 2.0mm Thick	Qty 10
		12.58mm X 8.92mm i.d 1.83mm Thick	Qty 10

## Part No Description

43-0358A 88 Piece Special O-Ring Kit (Parts also sold individually)

41-1152		Double lip G8 (Fiat)	Qty 10
41-1151		Double lip G6 (Fiat)	Qty 10
41-1153		Double lip G10 (Fiat)	Qty 10
41-1141		Double lip (Pug/Cit 6460P0)	Qty 10
41-1142		Double lip (Pug/Cit 6160P1)	Qty 10
41-1143		Double lip (Ren 1-7001207274)	Qty 10
41-1144		Double lip (Ren 2-7001207274)	Qty 10
41-1162		Double lip (Ren 3-7001207274)	Qty 10
41-1111		10.7mm o.d 7.5mm i.d (Daf, Fiat, Ren, Volvo)	Qty 2
41-1112		14.3mm o.d 11mm i.d (Daf, Fiat, Ren, Volvo)	Qty 2
41-1113		17.3mm o.d 13.8mm i.d (Daf, Fiat, Ren, Volvo)	Qty 2
41-1114		20.3mm o.d 17.3mm i.d (Daf, Fiat, Ren, Volvo)	Qty 2

## O-ring Lube

Part No	Description	R134a	Qty
41-0003	Silicon Based Lubricant		


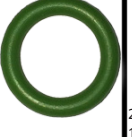
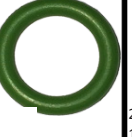















Increase life expectancy of o-rings.









For use on o-rings, seals and anything that needs to 'slide into place'.








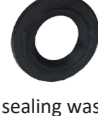






1 Bottle

# O-Rings & O-Ring Kits

Part No	Description				
43-AAG0357	Universal 250 Piece O-Ring Kit (Parts n/a individually)				
					
27mm o.d 20mm i.d 3.5mm Thick	24mm o.d 19mm i.d 2.5mm Thick	23mm o.d 19mm i.d 2mm Thick	22mm o.d 17mm i.d 2.5mm Thick	21mm o.d 17mm i.d 2mm Thick	18mm o.d 14mm i.d 2mm Thick
					
16mm o.d 12mm i.d 2mm Thick	19mm o.d 14mm i.d 2.5mm Thick	16mm o.d 11mm i.d 2.5mm Thick	15.5mm o.d 11.5mm i.d 2mm Thick	14mm o.d 9mm i.d 2.5mm Thick	14mm o.d 10mm i.d 2mm Thick
					
11.5mm o.d 7.9mm i.d 1.8mm Thick	11mm o.d 7mm i.d 2mm Thick	10mm o.d 6mm i.d 2mm Thick	9mm o.d 5mm i.d 2mm Thick	8mm o.d 4mm i.d 2mm Thick	7.5mm o.d 3.5mm i.d 2mm Thick




Part No	Description				
43-1000	40 Piece O-Ring & Garter Spring Kit (Parts n/a individually)				
					
11.5mm o.d 7.9mm i.d 1.8mm Thick	14mm o.d 10.4mm i.d 1.8mm Thick	18mm o.d 14.4mm i.d 1.8mm Thick	20mm o.d 16.4mm i.d 1.8mm Thick		
#6 COUPLING SEAL Qty 5	#8 COUPLING SEAL Qty 5	#10 COUPLING SEAL Qty 5	#12 COUPLING SEAL Qty 5		
					
20mm o.d 13.4mm i.d 3.3mm Thick	22.4mm o.d 15.8mm i.d 3.3mm Thick	26mm o.d 19.4mm i.d 3.3mm Thick	29.5mm o.d 22.9mm i.d 3.3mm Thick		
#6 COUPLING SPRING Qty 5	#8 COUPLING SPRING Qty 5	#10 COUPLING SPRING Qty 5	#12 COUPLING SPRING Qty 5		

Part No	Description				
41-0025	24 Piece V5/GM Sealing Washer Kit (Parts also sold individually)				
					
41-1106 (88.082) 8mm i.d Sealing washer Qty 2	41-1108 (88.083) 15mm i.d Sealing washer Qty 2	41-1107 (88.084) 11mm i.d Sealing washer Qty 2			
					
41-1109 (88.085) 17mm (3/4) i.d 25.30mm o.d Sealing washer Qty 2	41-4023 (88.086) 15.5mm (5/8) i.d Sealing washer Qty 2	41-4024 (88.091) 17mm (3/4) i.d 31.40mm o.d Sealing washer Qty 2			
					
41-4025 (88.089) 14.5mm i.d Yellow Harrison sealing washer Qty 2	41-4026 (88.087) 14.5mm i.d Black Harrison/GM sealing washer Qty 2	41-4027 (88.088) 15.5mm (5/8) i.d Green Harrison sealing washer Qty 2			
					
41-4028 (88.122) 15.5mm (5/8) i.d Red Harrison sealing washer Qty 2	41-4029 (88.080) Aluminium pilot. Harrison Qty 2	41-4030 (88.081) Aluminium pilot. Harrison Qty 2			

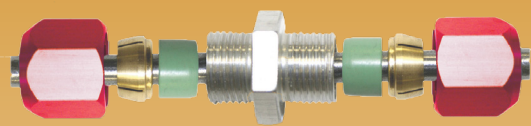
# Service Cap & Valve Core Kits

Part No		Description				HFO1234yf			
41-4168		65 Piece HFO1234yf Valve Core & service Valve Kit (Parts also sold individually)							
41-5390	88.291	41-5391	88.292	41-5392	88.293	41-5393	88.298	41-5394	88.299
									
Length 19mm Diameter 5.12mm		Length 21.8mm Diameter 7.8mm		Length 22.1mm Diameter 9.8mm		Length 21.5mm Diameter 7.8mm		Length 20mm Diameter 7mm	
Qty 20		Qty 5		Qty 5		Qty 5		Qty 5	
	41-4163 88.230				41-4164 88.231				41-4165 88.232
Short Internal Thread M8 x 1.0 HFO 1234yf		Long Internal Thread M8 x 1.0 HFO 1234yf		Long Internal Thread M8 x 1.0 HFO 1234yf		M9 x 1.0 HFO 1234yf		M9 x 1.0 HFO 1234yf	
Qty 5		Qty 5		Qty 5		Qty 5		Qty 5	
	41-4166 88.233								41-4167 88.234
M10 x 0.75 HFO 1234yf						M10 x 1.25 HFO 1234yf		M10 x 1.25 HFO 1234yf	
Qty 5						Qty 5		Qty 5	

Part No	Description				R134a & R12
41-5374	60 Piece Service Valve Cap Kit (Parts also sold individually)				
41-1057	(88.093)	41-1088	(88.096)	41-4155A	(88.008)
R12		R12		R134a	
Service port valve cap		Service port valve cap		Low side valve cap	
1/4		3/16		15.0 x 8.0mm	
Qty 5		Qty 5		Qty 5	
41-4157	(88.100)	41-4158	(88.099)	41-4159	(88.098)
R134a		R134a		R134a	
Low side valve cap		High side valve cap		Low side valve cap	
M8 x 1.0		M10 x 1.0		M8 x 1.0	
Qty 5		Qty 5		Qty 5	
41-4161	(88.101)	41-4162	(88.102)	41-4155	(88.094)
Low side Japanese cap		High side Japanese cap		R134a	
9.0 x 1.0mm		10.0 x 1.25mm		Low side valve cap	
Qty 5		Qty 5		Qty 5	
41-4156	(88.095)	41-4160	(88.097)	41-4156	(88.095)
R134a		R134a		R134a	
High side valve cap		High side valve cap		High side valve cap	
M10 x 1.25		M10 x 1.0		M10 x 1.25	
Qty 5		Qty 5		Qty 5	

Part No	Description				R134a & R12
41-5375	69 Piece Valve Core & Service Valve Cap Kit (Parts also sold individually)				
41-1019	88.012	41-5383A	88.022	41-5384	88.039
					
Length 19mm Diameter 5.12mm (standard for many applications)		M8 Neoprene seal. Length 21.5mm Diameter 7.8mm		Length 18.7mm Diameter 6.0mm (GM, porsche. Gold with black band)	
Qty 5		Qty 5		Qty 5	
41-AAG9987	88.123	41-AAG1101	88.126	41-AAG9888	88.125
					
Jaguar/Rover High side valve/service port		Jaguar/Ford Low side valve/service port adap-		Jaguar/Rover Low side valve/service port	
M15x1.0		tor M10x1.25		M13x1.0	
Qty 5		Qty 2		Qty 2	
41-4155	88.094	41-4156	88.095	41-4155A	88.008
					
Low side valve cap		High side valve cap		Low side valve cap	
M9 x 1.0 R134a		M10 x 1.25 R134a		M8 x 1.5 R134a	
Qty 5		Qty 5		Qty 5	
41-4156A	88.009	41-4161	88.101	41-4162	88.102
					
High side valve cap		Low side valve cap		High side valve cap	
M8 x 1.7 R134a		9.0x1.0mm		10.0x1.25mm	
Qty 5		Qty 5		Qty 5	
41-1057	88.093	41-4158	88.099	41-4159	88.098
					
Cap for R12 system 1/4		HP Cap M10x1.0		Cap for R12 system M8x1.0	
Qty 5		Qty 5		Qty 5	

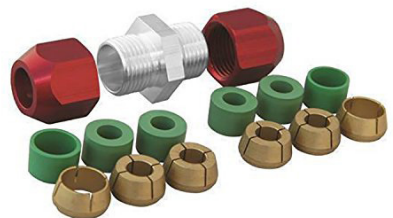
# SPlice-Lok



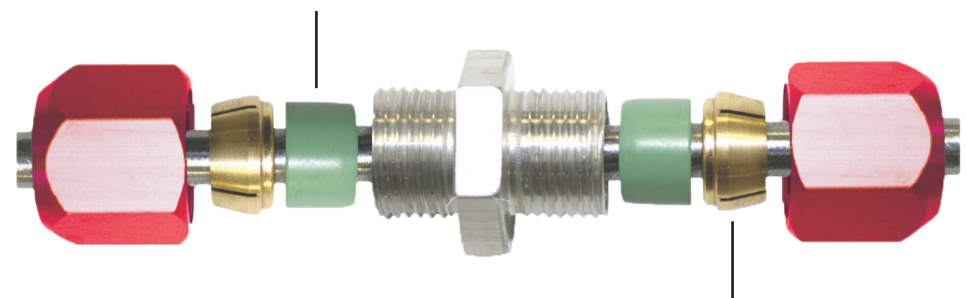
## Airsplice® Line Repair

Replacing metal lines can be labour intensive, time consuming, and cost-prohibitive.

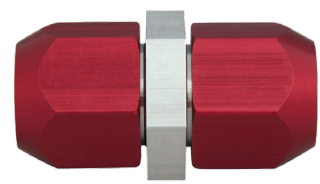
Leaking aluminium and steel pipes can now be easily, effectively and reliably fixed in just a couple of minutes. A unique system of clamps and rubber gaskets create a reliable seal



**EXPANDED SEAL SLEEVE SUPERIOR SEALING**  
Burst resistant up to 2600 PSI



**ANTI-VIBRATION TENSION RING**  
Resists vibration leaks



Part No	Description & Size
41-0088	5/8 & 3/4 (16mm & 19mm) Airsplice® line repair
41-0089	3/8, 5/16 & 1/2 (8mm, 10mm & 12mm) Airsplice® line repair



## SPLICE LOK® Line Repair Kit

The SPLICE LOK® Line Repair Kit contains an assortment of SPLICE-LOK® fittings for permanent leak repair of any combination of 5/16, 3/8, 1/2, 5/8 and 3/4" diameters of damaged A/C line. This can be done using standard hand tools without removing the lines from the vehicle.

Repairs can be made on the following:

- SAE and metric aluminium tube-to-tube.
- Aluminium tube to rubber hose.
- Aluminium tube block off.

The SPLICE LOK® Line repair Kit® also includes the following features:

- Compression-style tube repair.
- Fast and economical tube and hose repair.
- Ability to repair pinhole leaks, cracks, kinks and rub through damage
- Compatible with air-conditioning, coolant, transmission, oil or fuel lines. (not brake/clutch systems).
- Permanent leak repair.
- Compatible with copper/aluminium and steel tubes.
- Only hand tools are required.

41-0082



## SPLICE LOK® Line Repair Kit (Parts also sold separately)

Part No	Description										
41-0082	Splice Lok® Line Repair Kit										
	<b>17-0024 (ACR-1-04)</b> 5/16 (8mm) Ferrule	<b>Qty 2</b>		<b>17-0019 (ACR-1-103)</b> 5/16 (8mm) Seal	<b>Qty 2</b>		<b>17-0012 (ACR-046)</b> Body 5/16, 3/8 and 1/2 Tubing. (8, 10 & 12mm)	<b>Qty 2</b>		<b>17-0011 (ACR-045)</b> Body 5/8, 3/4 and 1/2 Tubing. (16 & 19mm)	<b>Qty 2</b>
	<b>17-0025 (ACR-2-04)</b> 3/8 (10mm) Ferrule	<b>Qty 2</b>		<b>17-0020 (ACR-2-03)</b> 3/8 (10mm) Seal	<b>Qty 2</b>		<b>17-0014 (ACR-056)</b> Body Tube to Hose 5/16, 3/8 and 1/2 (8, 10 & 12mm) Tubing to #8 Hose (13/32" / 10mm)	<b>Qty 2</b>		<b>17-0013 (ACR-055)</b> Body Tube to Hose 5/16, 3/8 and 1/2 (8, 10 & 12mm) Tubing to #6 Hose (5/16" / 8mm)	<b>Qty 2</b>
	<b>17-0026 (ACR-3-04)</b> 1/2 (12mm) Ferrule	<b>Qty 2</b>		<b>17-0021 (ACR-3-03)</b> 1/2 (12mm) Seal	<b>Qty 2</b>						
	<b>17-0027 (ACR-4-04)</b> 5/8 (16mm) Ferrule	<b>Qty 2</b>		<b>17-0022 (ACR-4-03)</b> 5/8 (16mm) Ferrule	<b>Qty 2</b>		<b>17-0016 (ACR-058)</b> Body Tube to Hose 5/8 and 3/4 (16 & 19mm) Tubing to #12 Hose (5/8" / 16mm)	<b>Qty 2</b>		<b>17-0015 (ACR-057)</b> Body Tube to Hose 5/16, 3/8 and 1/2 (8, 10 & 12mm) Tubing to #10 Hose (1/2" / 13mm)	<b>Qty 2</b>
	<b>17-0028 (ACR-5-04)</b> 3/4 (19mm) Ferrule	<b>Qty 2</b>		<b>17-0023 (ACR-5-03)</b> 3/4 (19mm) Seal	<b>Qty 2</b>						
	<b>17-0002 (AC-6-06)</b> Clinch Clamp #6 Hose. 5/16 (8mm)	<b>Qty 2</b>		<b>17-0007 (AC-6-05)</b> Clinch Clamp Cage #6 Hose. 5/16 (8mm)	<b>Qty 2</b>		<b>17-0017 (ACR-060)</b> Block Off 5/16, 3/8 and 1/2" (8, 10 & 12mm)	<b>Qty 2</b>		<b>17-0018 (ACR-061)</b> Block Off 5/8, and 3/4 (16 & 19mm)	<b>Qty 2</b>
	<b>17-0003 (AC-7-06)</b> Clinch Clamp #8 Hose. 13/32 (10mm)	<b>Qty 2</b>		<b>17-0008 (AC-7-05)</b> Clinch Clamp Cage #8 Hose. 13/32 (10mm)	<b>Qty 2</b>						
	<b>17-0004 (AC-8-06)</b> Clinch Clamp #10 Hose. 1/2 (13mm)	<b>Qty 2</b>		<b>17-0009 (AC-8-05)</b> Clinch Clamp Cage #10 Hose. 1/2 (13mm)	<b>Qty 2</b>						
	<b>17-0005 (AC-9-06)</b> Clinch Clamp #12 Hose. 5/8 (16mm)	<b>Qty 2</b>		<b>17-0010 (AC-9-05)</b> Clinch Clamp Cage #12 Hose. 5/8 (16mm)	<b>Qty 2</b>						
											

# Kledge-Lok® Line Repair Kit










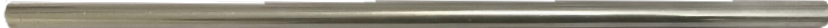

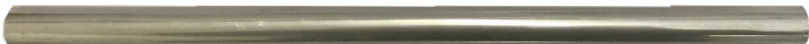

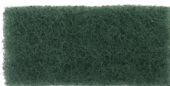

The KLEDGE-LOK® System has been successfully tested to 2000 PSI for fast and economical repairs to mobile A/C systems.

The KLEDGE-LOK® tool included is designed to be used with the T-bar provided though a basic open-end wrench, a square-drive ratchet or an air/battery powered impact wrench can also be used.

The KLEDGE-LOK® repair fittings consists of tube to tube unions, tube to hose unions and block off fittings.





































\* Not compatible with other similar products \*

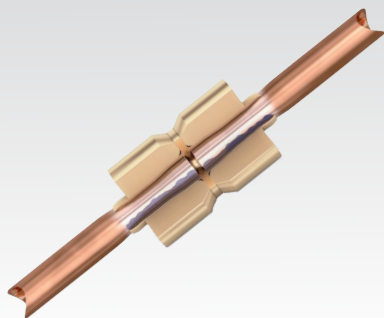
KLEDGE-LOK® Kit			
Part No		Description	
48-0007		KLEDGE-LOK® Complete 3 Tray Kit (Some parts also available individually)	
Tray 1			
8mm		10mm	
12mm		16mm	
19mm		Handle	
		48-0011 KLEDGE-LOK® Tool (also available separately)	
Tray 2			
17-0034 (ACR-011) A/C Aluminium Repair Tubing 5/16" x 12"			
17-0035 (ACR-012) A/C Aluminium Repair Tubing 3/8" x 12"			
17-0036 (ACR-013) A/C Aluminium Repair Tubing 1/2" x 12"			
17-0037 (ACR-014) A/C Aluminium Repair Tubing 5/8" x 12"			
17-0038 (ACR-015) A/C Aluminium Repair Tubing 3/4" x 12"			
ACR-028 Abrasive Pad Qty 1		ACR-029 Anaerobic Sealing Compound. Qty 1	
			

# Kledge-Lok® Line Repair Kit

## Tray 3

 <p><b>ACR005</b> 5/16 8mm Aluminum Tube-Tube KLEDGE-LOK® A/C Repair Union</p> <p>Qty 1</p>	 <p><b>ACR005</b> 5/16 8mm Aluminum Tube-Tube KLEDGE-LOK® A/C Repair Union</p> <p>Qty 1</p>	 <p><b>17-0029(ACR-001)</b> 5/16" 8mm Aluminum tube to No.6 hose KLEDGE-LOK® repair union</p> <p>Qty 2</p>	 <p><b>17-0007(AC-6-05)</b> Burgaclip® plastic Case No.6/8mm</p> <p>Qty 2</p>  <p><b>17-0002(AC-6-06)</b> Burgaclip® Metal Clip No.6/8mm</p> <p>Qty 2</p>
 <p><b>ACR006</b> 3/8" 9.53mm Aluminum Tube-Tube KLEDGE-LOK® A/C Repair Union</p> <p>Qty 1</p>	 <p><b>ACR006</b> 3/8" 9.53mm Aluminum Tube-Tube KLEDGE-LOK® A/C Repair Union</p> <p>Qty 1</p>	 <p><b>17-0030(ACR-002)</b> 3/8" 10mm Aluminum tube to No.6 hose KLEDGE-LOK® Repair union</p> <p>Qty 2</p>	 <p><b>17-0008(AC-7-05)</b> Burgaclip® plastic Case No.8/10mm</p> <p>Qty 2</p>  <p><b>17-0003(AC-7-06)</b> Burgaclip® Metal Clip No.8/10mm</p> <p>Qty 2</p>
 <p><b>ACR007</b> 1/2" 12.7mm Aluminum Tube-Tube KLEDGE-LOK® A/C Repair Union</p> <p>Qty 1</p>	 <p><b>ACR007</b> 1/2" 12.7mm Aluminum Tube-Tube KLEDGE-LOK® A/C Repair Union</p> <p>Qty 1</p>	 <p><b>17-0031(ACR-003)</b> 1/2" 12.7mm Aluminum tube to No.8 hose KLEDGE- LOK® Repair union</p> <p>Qty 2</p>	 <p><b>17-0009(AC-8-05)</b> Burgaclip® plastic Case No.10/13mm</p> <p>Qty 2</p>  <p><b>17-0004(AC-8-06)</b> Burgaclip® Metal Clip No.10/13mm</p> <p>Qty 2</p>
 <p><b>ACR007</b> 1/2" 12.7mm Aluminum Tube-Tube KLEDGE-LOK® A/C Repair Union</p> <p>Qty 1</p>	 <p><b>ACR007</b> 1/2" 12.7mm Aluminum Tube-Tube KLEDGE-LOK® A/C Repair Union</p> <p>Qty 1</p>	 <p><b>17-0031(ACR-003)</b> 1/2" 12.7mm Aluminum tube to No.8 hose KLEDGE- LOK® Repair union</p> <p>Qty 2</p>	 <p><b>17-0010(AC-9-05)</b> Burgaclip® plastic Case No.12/16mm</p> <p>Qty 2</p>  <p><b>17-0005(AC-9-06)</b> Burgaclip® Metal Clip No.12/16mm</p> <p>Qty 2</p>
 <p><b>ACR008</b> 5/8" 16mm Aluminum Tube-Tube KLEDGE-LOK® A/C Repair Union</p> <p>Qty 1</p>	 <p><b>ACR008</b> 5/8" 16mm Aluminum Tube-Tube KLEDGE-LOK® A/C Repair Union</p> <p>Qty 1</p>	 <p><b>17-0032(ACR-004)</b> 5/8" 16mm Aluminum tube to No.10 hose KLEDGE-LOK® Repair union</p> <p>Qty 2</p>	 <p><b>17-0039(ACR-062)</b> 5/16"Aluminium Tube Block-Off</p> <p>Qty 2</p>  <p><b>17-0040(ACR-063)</b> 3/8"Aluminium Tube Block-Off</p> <p>Qty 2</p>
 <p><b>ACR008</b> 5/8" 16mm Aluminum Tube-Tube KLEDGE-LOK® A/C Repair Union</p> <p>Qty 1</p>	 <p><b>ACR008</b> 5/8" 16mm Aluminum Tube-Tube KLEDGE-LOK® A/C Repair Union</p> <p>Qty 1</p>	 <p><b>17-0032(ACR-004)</b> 5/8" 16mm Aluminum tube to No.10 hose KLEDGE-LOK® Repair union</p> <p>Qty 2</p>	 <p><b>17-0041 (ACR-064)</b> 1/2"Aluminium Tube Block-Off</p> <p>Qty 2</p>  <p><b>17-0042 (ACR-065)</b> 5/8"Aluminium Tube Block-Off</p> <p>Qty 2</p>
 <p><b>ACR009</b> 3/4" 19mm Aluminum Tube-Tube KLEDGE-LOK® A/C Repair Union</p> <p>Qty 1</p>	 <p><b>ACR009</b> 3/4" 19mm Aluminum Tube-Tube KLEDGE-LOK® A/C Repair Union</p> <p>Qty 1</p>	 <p><b>17-0033 (ACR-010)</b> 3/4" 19mm Aluminum tube to No.12 hose KLEDGE-LOK® Repair union</p> <p>Qty 2</p>	 <p><b>17-0043 (ACR-066)</b> 3/4"Aluminium Tube Block-Off</p> <p>Qty 2</p>

VULKAN  
LOKRING



Clean the tube ends with the abrasive pad in a rotational motion around the tube



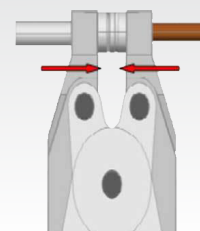
Add a drop of the sealing liquid on the ends of the two connecting tubes



Insert the tube ends and turn 360°



Use the hand tool to complete the repair



Part No	Description
48-0004A	Lokring Starter Kit

Tube and hose kit consisting of:

- MZ-V DOUBLE JOINTED heavy duty hand tool.
- Jaws from 8-19mm + MB Lokclip jaws.
- 1 metre of each size 8-19mm aluminium tubes.
- KS reduced diameter hoses (1x 6,8,10&12).
- A selection of the most common tube and hose fittings.



Part No	Description
48-0004B	MZ-V DOUBLE JOINTED Tool




Heavy duty


Part No	Description
17-200	Lokprep 200 Bond


Anaerobic sealant. Used to seal the tube surfaces during assembly of Lokring joints.

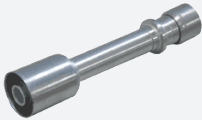


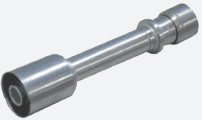
Part No	Description	Size	
17-6NKAL50	Straight aluminium Lokring connector	6mm	
17-8NKAL50	Straight aluminium Lokring connector	8mm	
17-9.53NKAL50	Straight aluminium Lokring connector	9.53mm	
17-10NKAL50	Straight aluminium Lokring connector	10mm	
17-12NKAL50	Straight aluminium Lokring connector	12mm	
17-13NKAL50	Straight aluminium Lokring connector	13mm	
17-15NKAL50	Straight aluminium Lokring connector	15mm	
17-16NKAL50	Straight aluminium Lokring connector	16mm	
17-18NKAL50	Straight aluminium Lokring connector	18mm	
17-19NKAL50	Straight aluminium Lokring connector	19mm	

**Helpful Hint:** When connecting aluminium tubes to copper tubes, use a heat shrink sleeve to protect the connection against corrosion.

Part No	Description	Size	
17-6VSMS00	Blank aluminium Lokring fitting	6mm	
17-7VSMS00	Blank aluminium Lokring fitting	7mm	
17-8VSMS00	Blank aluminium Lokring fitting	8mm	
17-9.53VSMS00	Blank aluminium Lokring fitting	9.53mm	
17-12VSMS00	Blank aluminium Lokring fitting	12mm	
17-12.7VSMS00	Blank aluminium Lokring fitting	12.7mm	
17-16VSMS00	Blank aluminium Lokring fitting	16mm	
17-19VSMS00	Blank aluminium Lokring fitting	19mm	

Part No	Description	Size	
17-OD8MM1MTR	Aluminium pipe 1mtr	8mm	
17-OD9.53MM1MTR	Aluminium pipe 1mtr	9.53mm	
17-OD13MM1MTR	Aluminium pipe 1mtr	13mm	
17-OD16MM1MTR	Aluminium pipe 1mtr	16mm	
17-OD19MM1MTR	Aluminium pipe 1mtr	19mm	

Part No	Description	Size	
17-9.53NKSAAL50	Lokring to STANDARD #6 hose fitting	9.53mm	
17-13NKSAAL50	Lokring to STANDARD #8 hose fitting	13mm	
17-16NKSAAL50	Lokring to STANDARD #10 hose fitting	16mm	
17-19NKSAAL50	Lokring to STANDARD #12 hose fitting	19mm	

Part No	Description	Size	
17-9.53RBSAAL50	Lokring to REDUCED #6 ID hose fitting	9.53mm	
17-13RBSAAL50	Lokring to REDUCED #8 ID hose fitting	13mm	
17-16RBSAAL50	Lokring to REDUCED #10 ID hose fitting	16mm	
17-19RBSAAL50	Lokring to REDUCED #12 ID hose fitting	19mm	


#6 Hose=8mm Id


#8 Hose=10mm Id

#10 Hose=13mm Id


#12 Hose=16mm Id


# Lokring® Products


Part No	Description	Size	
17-8NKALSV52	Joiner with high side service valve	8mm	
17-9.53NKALSV52	Joiner with high side service valve	9.53mm	
17-10NKALSV52	Joiner with high side service valve	10mm	
17-12NKALSV52	Joiner with high side service valve	12mm	
17-13NKALSV52	Joiner with high side service valve	13mm	

Part No	Description	Size	
17-13NKALSV51	Joiner with low side service valve	13mm	
17-16NKALSV51	Joiner with low side service valve	16mm	
17-19NKALSV51	Joiner with low side service valve	19mm	


**Helpful Hint:** When connecting aluminium tubes to copper or steel tubes with different outer diameters, use the Step up/Step down connectors listed below.

Part No	Description	Size	
17-9.53/6NRAL50	Step up/Step down connectors	9.53mm-6mm	
17-9.53/8NRAL50	Step up/Step down connectors	9.53mm-8mm	
17-10/9.53NRAL50	Step up/Step down connectors	9.53mm-10mm	
17-13/9.53NRAL50	Step up/Step down connectors	9.53mm-13mm	
17-10/6NRAL50	Step up/Step down connectors	10mm-6mm	
17-10/8NRAL50	Step up/Step down connectors	10mm-8mm	
17-12/10NRAL50	Step up/Step down connectors	10mm-12mm	
17-14/10NRAL50	Step up/Step down connectors	10mm-14mm	
17-16/10NRAL50	Step up/Step down connectors	10mm-16mm	
17-13/12NRAL50	Step up/Step down connectors	13mm-12mm	
17-16/13NRAL50	Step up/Step down connectors	16mm-13mm	
17-16/15NRAL50	Step up/Step down connectors	16mm-15mm	
17-17/16NRAL50	Step up/Step down connectors	16mm-17mm	
17-19/16NRAL50	Step up/Step down connectors	16mm-19mm	
17-19/18NRAL50	Step up/Step down connectors	19mm-18mm	

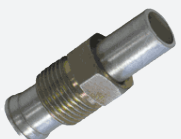
Part No	Description	Size	
17-9.53B90	90° joiner	9.53mm	
17-13B90	90° joiner	13mm	
17-16B90	90° joiner	16mm	
17-19B90	90° joiner	19mm	


Part No	Description	Size	
17-9.53B45	45° joiner	9.53mm	
17-13B45	45° joiner	13mm	
17-16B45	45° joiner	16mm	


Part No	Description	Size	
17-HLF90-3/8	90° Connector to standard #6 hose	9.53mm	
17-HLF90-1/2	90° Connector to standard #8 hose	13mm	
17-HLF90-5/8	90° Connector to standard #10 hose	16mm	
17-HLF90-3/4	90° Connector to standard #12 hose	19mm	


Part No	Description	Size	
17-HLF45-3/8	45° Connector to standard #6 hose	9.53mm	
17-HLF45-1/2	45° Connector to standard #8 hose	13mm	
17-HLF45-5/8	45° Connector to standard #10 hose	16mm	
17-HLF45-3/4	45° Connector to standard #12 hose	19mm	


**Helpful Hint:** Damaged a thread replacing a component? With Lokring connectors you can replace O-ring threaded fittings.

Part No	Description	Size	
17-OREPFIT6MI	Straight male O-ring insert	No.6	
17-OREPFIT8MI	Straight male O-ring insert	No.8	
17-OREPFIT10MI	Straight male O-ring insert	No.10	
17-OREPFIT12MI	Straight male O-ring insert	No.12	

Part No	Description	Size	
17-OREPFIT6F	Straight female O-ring	No.6	
17-OREPFIT8F	Straight female O-ring	No.8	
17-OREPFIT10F	Straight female O-ring	No.10	
17-OREPFIT12F	Straight female O-ring	No.12	

Part No	Description	Size	
17-OREPFIT6M	Straight male O-ring	No.6	
17-OREPFIT8M	Straight male O-ring	No.8	
17-OREPFIT10M	Straight male O-ring	No.10	
17-OREPFIT12M	Straight male O-ring	No.12	

Part No	Description	Size	
17-TL9.53	Straight - standard #6 hose Crimp fitting	9.53mm	
17-TL13	Straight - standard #8 hose Crimp fitting	13mm	
17-TL16	Straight - standard #10 hose Crimp fitting	16mm	
17-TL19	Straight - standard #12 hose Crimp fitting	19mm	

Part No	Description	Size	
17-9.53RBTL	Straight - reduced ID #6 hose Crimp fitting	9.53mm	
17-13RBTL	Straight - reduced ID #8 hose Crimp fitting	13mm	
17-16RBTL	Straight - reduced ID #10 hose Crimp fitting	16mm	
17-19RBTL	Straight - reduced ID #12 hose Crimp fitting	19mm	

# Burgaclick® Range



To ensure that the connection seals properly please follow the below steps:

1. Lightly sand the pipe ends with fine sand paper to remove dirt and debris.
2. Apply Lokprep to both ends of the pipe, making sure that the Lokprep does not enter the pipe.
3. Insert the pipe ends into the the Lokring connector ensuring the pipe ends are inserted to the inner limit and remain fixed in this position.
4. Close the Lokring connection up ensuring that both sides close fully and meet the centre stop.

That's it, one secure joint has been created.

Part No	Description
17-0006	Burgaclick® Tool

Heavy duty hand tool  
for quick and easy tightening  
of Burgaclick® metal clips.



Part No	Description	Size
17-1001B	Straight female O-ring Burgaclick fitting	No.6
17-2001B	Straight female O-ring Burgaclick fitting	No.8
17-3001B	Straight female O-ring Burgaclick fitting	No.10



Part No	Description	Size
17-1002B	45° female O-ring Burgaclick fitting	No.6
17-2002B	45° female O-ring Burgaclick fitting	No.8
17-3002B	45° female O-ring Burgaclick fitting	No.10



Part No	Description	Size
17-1003B	90° female O-ring Burgaclick fitting	No.6
17-2003B	90° female O-ring Burgaclick fitting	No.8
17-3003B	90° female O-ring Burgaclick fitting	No.10



Part No	Description	Size
17-1008B	Straight male O-ring Burgaclick fitting	No.6
17-2008B	Straight male O-ring Burgaclick fitting	No.8
17-3008B	Straight male O-ring Burgaclick fitting	No.10



Part No	Description	Size
17-1009B	45° male O-ring Burgaclick fitting	No.6
17-2009B	45° male O-ring Burgaclick fitting	No.8
17-3009B	45° male O-ring Burgaclick fitting	No.10



Part No	Description	Size
17-1010B	90° male O-ring Burgaclick fitting	No.6
17-2010B	90° male O-ring Burgaclick fitting	No.8
17-3010B	90° male O-ring Burgaclick fitting	No.10



Part No	Description	Size
17-1011B	Straight male Insert Burgaclick fitting	No.6
17-2011B	Straight male Insert Burgaclick fitting	No.8
17-3011B	Straight male Insert Burgaclick fitting	No.10



Part No	Description	Size
17-1012B	45° male Insert Burgaclick fitting	No.6
17-2012B	45° male Insert Burgaclick fitting	No.8
17-3012B	45° male Insert Burgaclick fitting	No.10



Part No	Description	Size
17-1013B	90° male Insert Burgaclick fitting	No.6
17-2013B	90° male Insert Burgaclick fitting	No.8
17-3013B	90° male Insert Burgaclick fitting	No.10



Part No	Description	Size
17-1014B	Inline Splicer Burgaclick fitting	No.6
17-2014B	Inline Splicer Burgaclick fitting	No.8
17-3014B	Inline Splicer Burgaclick fitting	No.10
17-4014B	Inline Splicer Burgaclick fitting	No.12



Part No	Description	Size
17-0007	Burgaclick Plastic Case	No.6
17-0008	Burgaclick Plastic Case	No.8
17-0009	Burgaclick Plastic Case	No.10
17-0010	Burgaclick Plastic Case	No.12



Part No	Description	Size
17-0002	Burgaclick Metal Clip	No.6
17-0003	Burgaclick Metal Clip	No.8
17-0004	Burgaclick Metal Clip	No.10
17-0005	Burgaclick Metal Clip	No.12



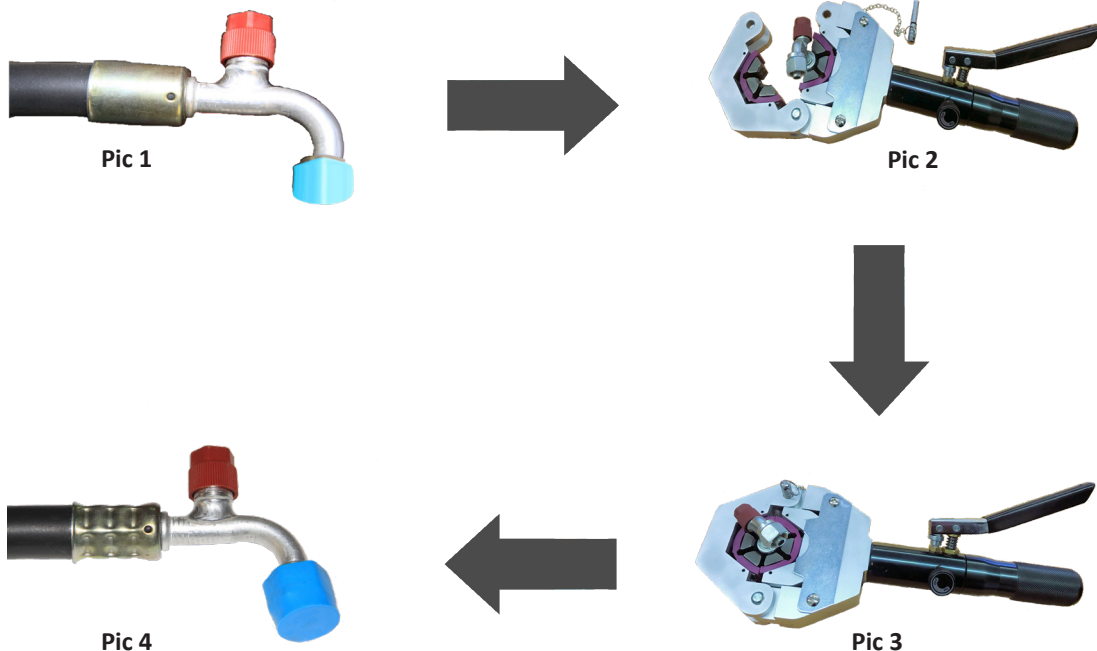
# Beadlock® Crimp Fittings

## Hydraulic Hand Crimper & Dies Kit

Installing air conditioning is something that is easy to do with one exception—making the necessary hoses. Generally the required hoses and the necessary ends are included, however those ends have to be crimped onto the hose to make a leak-free union. The crimping kit comes with eight sets of dies and is operated manually. The sturdy construction and simple operation produces professional-looking, leak-free connections.

The fittings used are the Beadlock style. The ferrule is locked onto the tube; the crimping tool compresses it, which locks the hose in place.

- Pic 1 Note the hole in the ferrule; it allows verification that the hose is bottomed in the fitting. This 90° A/C fitting shown includes a service port for charging the system.
- Pic 2 With the proper dies in place the fitting is centered fore and aft in the clamp, which is closed and locked with a pin.
- Pic 3 By pumping the handle it squeezes the dies together. When the handle will not pump any more the job is complete.
- Pic 4 The finished crimp is tight and professional looking.




Part No	Description
48-0003	Hydraulic Crimper for Standard & Reduced Bore Hose Crimp Fittings.


Dies included in kit are:


- REDUCED BORE 6,8,10,12
  - STANDARD BORE 8,10,12
- (Please note number 8 reduced bore die can be used to crimp a standard bore No.6 fitting)




**FOR REDUCED BORE HOSE ADD AN "S" TO THE END OF THE PART NUMBER**


Part No	Description	Size	
17-1001	Straight Female O-ring Hose Crimp fitting	No.6	
17-2001	Straight Female O-ring Hose Crimp fitting	No.8	
17-3001	Straight Female O-ring Hose Crimp fitting	No.10	
17-4001	Straight Female O-ring Hose Crimp fitting	No.12	


Part No	Description	Size	
17-1002	45° Female O-ring Hose Crimp fitting	No.6	
17-2002	45° Female O-ring Hose Crimp fitting	No.8	
17-3002	45° Female O-ring Hose Crimp fitting	No.10	
17-4002	45° Female O-ring Hose Crimp fitting	No.12	


Part No	Description	Size	
17-1003	90° Female O-ring Hose Crimp fitting	No.6	
17-2003	90° Female O-ring Hose Crimp fitting	No.8	
17-3003	90° Female O-ring Hose Crimp fitting	No.10	
17-4003	90° Female O-ring Hose Crimp fitting	No.12	

Part No	Description	Size	
17-1004	180° Female O-ring Hose Crimp fitting ("S" n/a)	No.6	
17-2004	180° Female O-ring Hose Crimp fitting ("S" n/a)	No.8	
17-3004	180° Female O-ring Hose Crimp fitting ("S" n/a)	No.10	
17-4004	180° Female O-ring Hose Crimp fitting ("S" n/a)	No.12	

Part No	Description	Size	
17-1008	Straight male O-ring Hose Crimp fitting	No.6	
17-2008	Straight male O-ring Hose Crimp fitting ("S" n/a)	No.8	
17-3008	Straight male O-ring Hose Crimp fitting	No.10	
17-4008	Straight male O-ring Hose Crimp fitting	No.12	

Part No	Description	Size	
17-1009	45° Male O-ring Hose Crimp fitting	No.6	
17-2009	45° Male O-ring Hose Crimp fitting	No.8	
17-3009	45° Male O-ring Hose Crimp fitting ("S" n/a)	No.10	

Part No	Description	Size	
17-1010	90° Male O-ring Hose Crimp fitting	No.6	
17-2010	90° Male O-ring Hose Crimp fitting ("S" n/a)	No.8	
17-3010	90° Male O-ring Hose Crimp fitting	No.10	
17-4010	90° Male O-ring Hose Crimp fitting	No.12	

Part No	Description	Size	
17-1011	Straight male O-ring insert Hose Crimp fitting	No.6	
17-2011	Straight male O-ring insert Hose Crimp fitting	No.8	
17-3011	Straight male O-ring insert Hose Crimp fitting	No.10	
17-4011	Straight male O-ring insert Hose Crimp fitting	No.12	

# Beadlock® Crimp Fittings

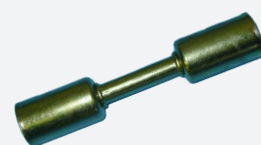
Part No	Description	Size
17-1012	45° Male O-ring insert Hose Crimp fitting ("S" n/a)	No.6
17-3012	45° Male O-ring insert Hose Crimp fitting	No.10
17-4012	45° Male O-ring insert Hose Crimp fitting	No.12



Part No	Description	Size
17-1013	90° Male O-ring insert Hose Crimp fitting	No.6
17-2013	90° Male O-ring insert Hose Crimp fitting	No.8
17-3013	90° Male O-ring insert Hose Crimp fitting	No.10
17-4013	90° Male O-ring insert Hose Crimp fitting ("S" n/a)	No.12



Part No	Description	Size
17-1014	Straight splicer Crimp fitting	No.6
17-2014	Straight splicer Crimp fitting	No.8
17-3014	Straight splicer Crimp fitting	No.10
17-4014	Straight splicer Crimp fitting	No.12



Part No	Description	Size
17-1005	Female O-ring R134 port Hose Crimp fitting	No.6
17-2005	Female O-ring R134 port Hose Crimp fitting	No.8
17-3005	Female O-ring R134 port Hose Crimp fitting	No.10



Part No	Description	Size
17-1006	45° Female O-ring R134 port Hose Crimp fitting	No.6
17-2006	45° Female O-ring R134 port Hose Crimp fitting	No.8
17-3006	45° Female O-ring R134 port Hose Crimp fitting	No.10



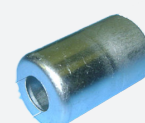
Part No	Description	Size
17-1007	90° Female O-ring R134 port Hose Crimp fitting	No.6
17-2007	90° Female O-ring R134 port Hose Crimp fitting	No.8
17-3007	90° Female O-ring R134 port Hose Crimp fitting	No.10



Part No	Description	Size
17-1015	Straight splicer R134 port Hose Crimp fitting	No.6
17-2015	Straight splicer R134 port Hose Crimp fitting	No.8
17-3015	Straight splicer R134 port Hose Crimp fitting	No.10
17-4015	Straight splicer R134 port Hose Crimp fitting	No.12



Part No	Description	Size
17-1016	Standard bore Hose ferrule	No.6
17-2016	Standard bore Hose ferrule	No.8
17-3016	Standard bore Hose ferrule	No.10
17-4016	Standard bore Hose ferrule	No.12



The BLR Kit enables the fitter to replace reduced diameter hose with standard hose while using the original fittings

## The BLR Kit

Part No	Description
41-0022	BLR Hose Repair Kit



Assortment of ferrules in standard 6,8,10 & 12 sizes. Inc various washers. The BLR kit enables the user to replace reduced diameter hose with standard hose, while using the original fittings (very handy for non-standard sized fittings). Please see parts list below for replacements.

Part No	Description	Size
41-0022A	Replacement BLR Hose Ferrules (20Pk)	No.6
41-0022B	Replacement BLR Hose Ferrules (20Pk)	No.8
41-0022C	Replacement BLR Hose Ferrules (20Pk)	No.10
41-0022D	Replacement BLR Hose Ferrules (20Pk)	No.12



41-0022E	Replacement BLR Retainer (20Pk)	ID8.3mm/OD17.4mm
41-0022F	Replacement BLR Retainer (20Pk)	ID10.7mm/OD20.3mm
41-0022G	Replacement BLR Retainer (20Pk)	ID14.8mm/OD17.7mm
41-0022H	Replacement BLR Retainer (20Pk)	ID14.7mm/OD14.8mm
41-0022I	Replacement BLR Retainer (20Pk)	ID17.5mm/OD23.2mm
41-0022J	Replacement BLR Retainer (20Pk)	ID15.7mm/OD25.3mm
41-0022K	Replacement BLR Retainer (20Pk)	ID17.6mm/OD23.3mm
41-0022L	Replacement BLR Retainer (20Pk)	ID18.9mm/OD25.0mm
41-0022M	Replacement BLR Retainer (20Pk)	ID20.5mm/OD27.0mm



# Hoses & Tooling

## Standard Bore Hose

Part No	Inner Diameter	Outer Diameter	Length
17-6 HOSE STANDARD 15M	7.9mm	18.3mm	15mtrs
17-8 HOSE STANDARD 15M	10.3mm	22.4mm	15mtrs
17-10 HOSE STANDARD 15M	12.7mm	24.6mm	15mtrs
17-12 HOSE STANDARD 15M	15.9mm	27.7mm	15mtrs



## Reduced Bore Hose

Part No	Inner Diameter	Outer Diameter	Length
17-6 HOSE M/B 15M	8.3mm	14.8mm	15mtrs
17-8 HOSE M/B 15M	10.6mm	17.2mm	15mtrs
17-10 HOSE M/B 15M	13mm	19.4mm	15mtrs
17-12 HOSE M/B 15M	16mm	23.6mm	15mtrs



## Hose Cutters

Part No	Description
41-1155	Hose Cutter

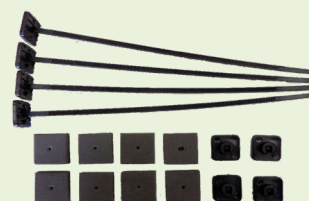
Scissor action  
hand held  
rubber hose  
cutter.



## Fan Ties

Part No	Description
05- AAG60145	Fan Cable Ties

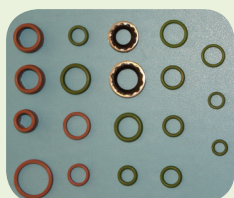
For use  
with  
Spal  
Fans.



## Condenser O-Ring Kit

Part No	Description
16-COND	Condenser O-Ring Kit

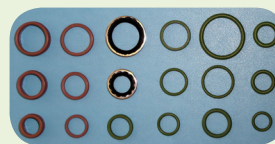
A small selection of  
condenser O-Rings.  
Used when connecting  
fittings onto  
condensers.



## Compressor O-Ring Kit

Part No	Description
14-COMP	Compressor O-Ring Kit

A small selection of  
compressor O-Rings.  
Used when connecting  
fittings onto  
compressors.



## Anti-Condensation Tape

Part No	Description
22-AAGQ201	Anti-Condensation Tape

Tar cork tape commonly  
used to resolve problems  
such as pipe sweating in  
refrigerant pipe lines and  
control condensation by  
effective heat insulation.



Length: 9m

## Fin Combs

### Part No & Description

48-0005A	48-0005
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A Set of Six Fin  
Combs.



Condenser Fin  
Comb.

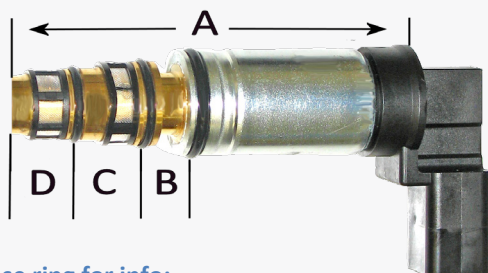
## Spring Lock Tools

Part No	Description	
41-0010	Set of Four Ford Spring Lock Tools	
	These tools make it easier to disconnect A/C pressure lines on selected Ford vehicles. (Will fit some other applications too)	
41-0012	Set of Two VW Spring Lock Tools	
	These tools make it easier to disconnect A/C pressure lines on selected VW vehicles.	
41-0011	Set of Two GM Spring Lock Tools	
	These tools make it easier to disconnect A/C pressure lines on selected GM vehicles.	
41-0013	Mercedes Suction Line Spring Lock Tool	
	These tools make it easier to disconnect A/C pressure lines on Mercedes W-211 vehicles. Suction line only	
41-0014	Smart Car Suction Line Spring Lock Tool	
	This tool makes it easier to disconnect A/C pressure lines on selected Smart vehicles. Suction line only	
41-0015	Toyota Spring Lock Tool	
	This tool makes it easier and safer to disconnect A/C pressure lines on selected Toyota vehicles.	
41-0108	Audi Spring Lock Tool	
	This tool makes it easier and safer to disconnect A/C pressure lines on selected Audi vehicles.	
41-0084	Toyota LP Special Clamp	
	LP special clamp for Toyota applications.	
41-0085	Toyota HP Special Clamp	
	HP special clamp for Toyota applications.	

# Compressor Control Valves

## Compressor Control Valves

Part No	Description	Type: SANDEN
44-9808	PXE13/PXE16 VALVE	



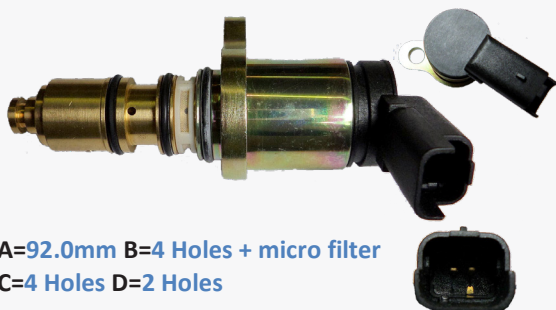
Please ring for info:

Part No	Description	Type: SANDEN
44-9809	PXE13/16/SD6V12 VALVE	



A=73.0mm B=2 Holes  
C=2 Holes+micro filter D=2 Holes

Part No	Description	Type: SANDEN
44-9810	SD7C16 VALVE	



A=92.0mm B=4 Holes + micro filter  
C=4 Holes D=2 Holes

Part No	Description	Type: SANDEN
44-9811	PXE14/PXE16 OPEL VALVE	



A=73.3mm B=2 Holes  
C=4 Holes + micro filter D=2 Holes

Part No	Description	Type: VARIOUS
44-9812	AUDI/MERC/BMW VALVE	



A=83.5mm B=1 Hole  
C=4 Holes + micro filter D=4 Holes + micro filter

Part No	Description	Type: DELPHI CVC
44-9814	VAUX/OPEL 14/16 VALVE	



A=73.0mm B=2 Holes  
C=6 Holes + micro filter D=2 Holes + micro filter

Part No	Description	Type: VARIOUS
44-9815	BMW VALVE	



A=73.5mm B=2 Holes  
C=6 Holes + micro filter D=2 Holes + micro filter

Part No	Description	Type: CALSONIC
44-9817	BMW CSE613 VALVE	



A=80.5mm B=2 Holes  
C=No Holes + micro filter D=No Holes + micro filter

# Compressor Control Valves

## Compressor Control Valves

Part No	Description	Type: DENSO
44-9800	CONTROL VALVE 7SEU17	



Part No	Description	Type: DENSO
44-9801	CONTROL VALVE 7SEU16/17	



Part No	Description	Type: DENSO
44-9802	CONTROL VALVE 7SEU16/17	



Part No	Description	Type: DENSO
44-9804	CONTROL VALVE 6SE/7S	



Part No	Description	Type: DENSO
44-9805	CONTROL VALVE 6SEU	



Part No	Description	Type: DENSO
44-9806	CONTROL VALVE 6SEU16C	



Part No	Description	Type: DENSO
44-9807	CONTROL VALVE 6SEU12C	



Part No	Description	Type: DENSO
44-9813	5SL12C VALVE FIAT	

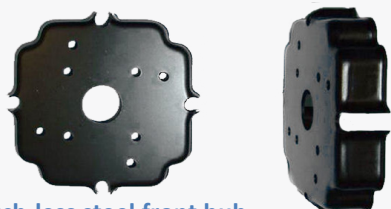


# Compressor Front Hubs

## Compressor Front Hubs, Hub Removers & Rubbers

Part No	Description	Denso	Part No	Description	Denso
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44-9709 Replacement Hub



Denso clutch-less steel front hub.

44-9710 Replacement Hub



Replacement Denso clutch-less Steel/Plastic front hub.

Part No	Description	Denso	Part No	Description	Denso
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44-9711 Replacement Hub



Replacement Denso front limiter steel/plastic hub.

44-9712 Replacement Hub



Replacement Denso clutch-less steel front hub.

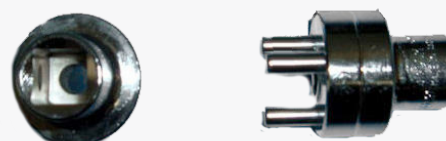
Part No	Description	Denso	Part No	Description	Denso
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44-9713 Replacement Hub



Replacement Denso clutch-less steel/plastic front hub for 5SE09C.

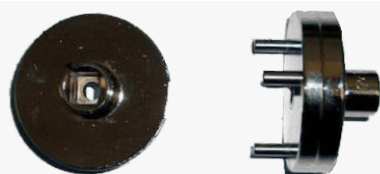
44-9798 Hub Remover



HUB REMOVER for Denso compressors 7SEU type.

Part No	Description	Denso	Part No	Description	Various
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44-9799 Hub Remover



HUB REMOVER for Denso. 1/2" socket connection with a 2" pin distance on the face of the puller.

41-1103 Hub Remover



HUB REMOVER. Universal hub puller.

Part No	Description	Denso	Part No	Description	Denso
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44-9796 Replacement Rubber dampener



Denso rubber dampener for 5SE09C.  
Sold individually. Qty 1

44-9797 Replacement Rubber dampener



Denso rubber dampener for 5SEU, 5SL, 6EU & 7EU.  
Sold individually. Qty 1

# Compressor Bearings & Guards

## Compressor Bearings

Part No	Description & Size
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44-9702	40x62x24mm Compressor Bearing. Fits Sanden.
44-9700	47x30x12mm Compressor Bearing. Fits Denso, Sanden, MSC & Mitsubishi.
44-0632	50x35x20mm Compressor Bearing. Fits Sanden & Visteon.
44-AAG0040	52x30x22mm Compressor Bearing. Fits Denso 10PA 15/17/20.
44-9701	52x35x12mm Compressor Bearing. Fits Denso Scroll.
44-9703	55x35x20mm Compressor Bearing. Fits Zexel, Sanden & Panasonic.
44-AAG0657	52x35x22mm Compressor Bearing. Fits Denso, CVC & Calsonic.
44-9707	54x38x17mm Compressor Bearing. Fits Denso.
44-9708	55x32x23mm Compressor Bearing. Fits Panasonic & Matsushita.
44-AAG0644	55x30x23mm Compressor Bearing. Fits Visteon Scroll FS10.
44-AAG0659	62x40x20mm Compressor Bearing. Fits GM V5,R4,DA6 & A6. Visteon FS6.

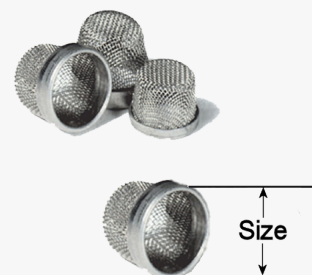
## Compressor Guard & Replacement Filters

Part No	Description
41-0021	Compressor Guard

The Compressor Guard protects the system from debris entering the compressor using a mesh filter on the suction port.



Part No	Description	Size O/D
41-0028	Blue Mesh Filter Pk5	11.96mm
41-0029	Black Mesh Filter Pk5	12.95mm
41-0030	Yellow Mesh Filter Pk5	13.23mm
41-0031	Green Mesh Filter Pk5	13.49mm
41-0032	Purple Mesh Filter Pk5	13.67mm
41-0033	Black Mesh Filter Pk5	14.02mm
41-0034	Black Mesh Filter Pk5	15.11mm
41-0035	Green Mesh Filter Pk5	15.70mm



# Orifice tubes

## Orifice Tube & Garter Spring Kit

Part No	Description	
41-1010	Orifice Tube Kit	
22-8621		BLUE ORIFICE TUBE - FORD Qty 2
22-8622		GREY ORIFICE TUBE - AUDI Qty 2
22-2309		YELLOW ORIFICE TUBE - VOLVO Qty 2
22-1035		WHITE ORIFICE TUBE - FIAT Qty 2
22-8640		BROWN ORIFICE TUBE - FORD Qty 2
22-2304		BLACK ORIFICE TUBE - OPEL, VAUX Qty 2
22-8641		PURPLE ORIFICE TUBE - CHRYSLER Qty 2
22-8639		ORANGE ORIFICE TUBE - FORD Qty 2
22-1030		RED ORIFICE TUBE - FORD Qty 2
22-1028		GREEN ORIFICE TUBE - FORD Qty 2
		

Part No	Description
42-1000	Orifice Tube Removal Kit



Handy tool to remove orifice tubes.

Part No	Description
42-1001	Orifice Tube Removal Tool

Tool for removing broken orifice tube, strong metal construction.



## A/C Machine Filters

Part No	Description	Part No	Description
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41-0069 Wigam® & CTR® Filter

41-0072 Robinair® SPX Filter

Filter for the Wigam®  
& CTR® Charging Stations

Filter for Robinair® SPX  
Charging Stations



230mm 1/4 Flare

294mm 1/4 O-Ring

Part No	Description	Part No	Description
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41-0070 Krios® & Ecotechnics® Filter

41-0073 TEXA® Filter

Filter for the Krios®  
& Ecotechnics®  
Charging Stations

Filter for the TEXA®  
Charging Stations



160mm 1/4 Flare

240mm 3/8 O-Ring

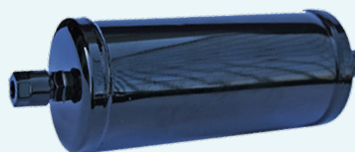
Part No	Description	Part No	Description
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41-0071 Robinair® Filter

41-0086 Brain Bee® Filter

Filter for the Robinair  
SPX Charging Stations

Filter only for the Brain Bee®  
Charging Solutions



275mm Coupler Type

243mm 3/8 Flare

Part No	Description
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41-0087 Elke® Portable Recovery Unit Filter

Filter for Elke® Portable recovery machines.  
(Will fit 48-00018 & 48-0006A)



# Marketing Support

## Marketing Support

Part No	Description
40-0014	Complete Marketing Pack

- Exterior Wall Sign
- Shop Wall Poster
- Counter Leaflet



Part No	Description	Part No	Description
40-0012	Exterior Wall Sign	40-0015	Refrigerant Oil & Charge Guide



800mm x 500mm

Qty 1



Qty 1

Part No	Description	Part No	Description
40-0010	Shop Wall Poster	40-0011	Counter Leaflets



420mm x 300mm

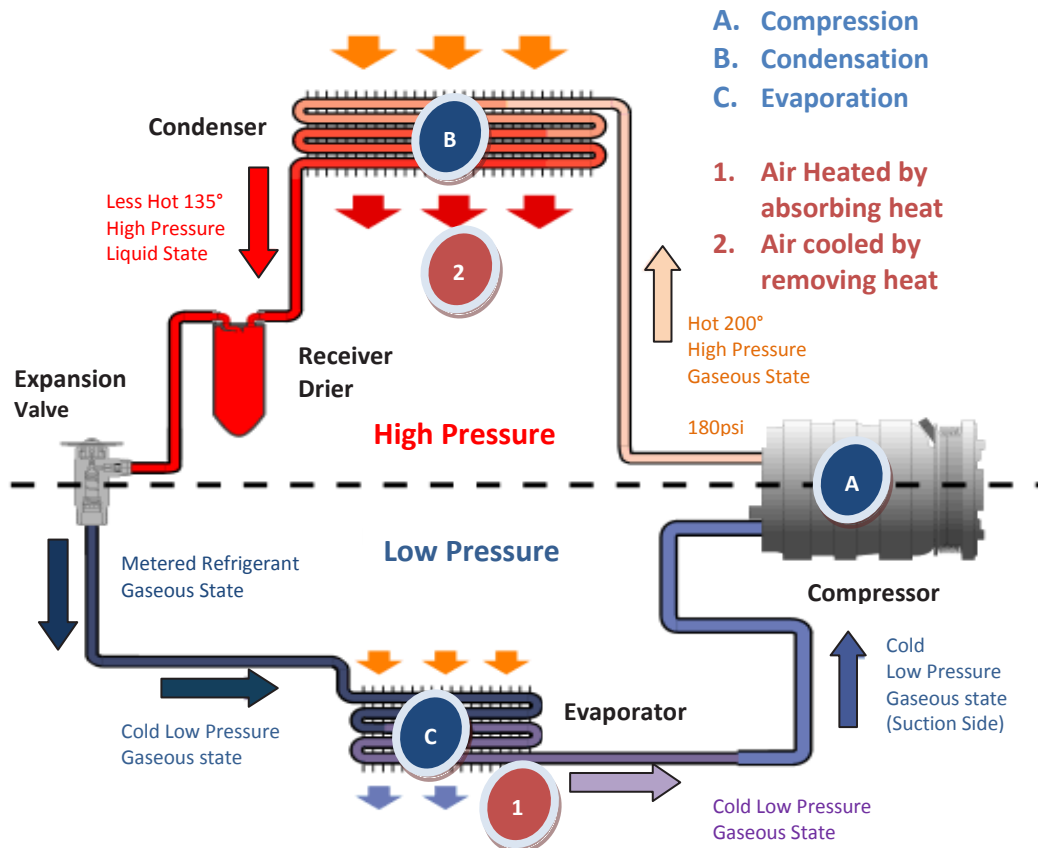
Qty 1



Qty 1

# The Air Conditioning System

Air Conditioning (AC or A/C) is the process of removing heat from the interior of an occupied space to improve the comfort of the occupants. The processes listed below are an example of the most commonly used in automotive vehicles.



Refrigerant gas vapour mixed with **compressor lubricant oil** (from the evaporator) enters the **compressor** and is compressed to a higher pressure, resulting in a higher temperature. The hot, compressed refrigerant vapour is now at a temperature and pressure at which it can be condensed. This is routed through a **condenser** (usually located in front of the vehicle's radiator). Here the refrigerant is cooled by air flowing across the condenser's fins, originating from the vehicle's movement or from a **radiator fan**. The High pressure gas is condensed into a high pressure liquid.

The condensed and pressurised liquid refrigerant is then routed through the **receiver-drier**. A receiver-drier's internals comprises of a one way desiccant filter that both dehydrates the refrigerant and compressor lubricant oil mixture in order to remove any residual water content (which would become ice inside the expansion valve and therefore clog it). The receiver-drier also helps filter and remove any solid particles carried by the liquid gas/oil. The Liquid gas and oil is then forced through an **expansion valve** where it undergoes an abrupt reduction in pressure. The pressure reduction results in flash evaporation which lowers its temperature.

The cold refrigerant is then routed through the **evaporator** in the passenger compartment. The air after being filtered by a cabin air filter, is blown by a variable speed **blower motor** across the evaporator, causing the liquid part of the cold refrigerant mixture to evaporate, further lowering the temperature. The warm air is therefore cooled, and also deprived of any humidity (which condenses on the evaporator fins) and is drained externally. Cold air is then delivered through the interior vents.

## A/C Systems: to flush or not to flush

Fitted on nearly all new production cars, air conditioning offers lucrative servicing and repair work for an independent garage

A/C systems only have one moving component - the compressor. Oil circulates through the system, lubricating each component (condenser, evaporator, receiver drier/accumulator, expansion valve and hoses). Any debris or contamination will affect every component. To remove the debris, the oil must be removed, along with any oil film on any of the internal components. This procedure is called flushing.

### When to flush?

Drain the oil whenever the compressor is removed to check its cleanliness. If the oil looks contaminated the system must be flushed. It is advisable to flush every time the compressor is changed to be 100% certain of the system oil charge (too much oil causes the compressor to liquid lock in a similar way to excess engine oil in a car).

### How to perform a flush

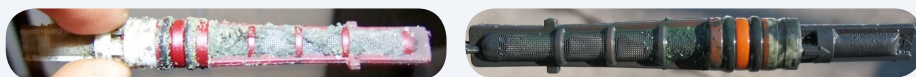
Use a charging station's flush procedure if available (note: recovery mode is not a flush).

Otherwise use a flushing kit (see examples alongside). When flushing, clean individual hoses and heat exchangers. The receiver drier and compressor cannot be flushed and must be replaced.

### What happens if flushing is not done?

Any contamination in the system could result in ongoing failures. Blockages can occur in expansion valves and orifice tubes (see below). Condensers are manufactured with very fine internal passes which can also block.

#### Examples of blocked orifice tubes:



#### Examples of failed compressors due to contamination

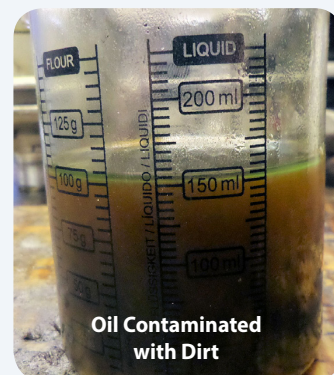


### Comply with compressor warranty restrictions

Always follow the compressor supplier's instructions to comply with their warranty restrictions. Compressors generally do not fail. If a compressor does fail there will be a reason which needs to be found and rectified. Avoid excess oil (the most common cause of repeat failure).

### Is a flushing system useful?

Want to avoid repeat A/C system failures, upset customers and rejected warranty claims? A flushing system is highly recommended, more so now than ever, with refrigerant 1234yf systems being introduced. These often have sealed compressors, so oil levels cannot be checked and flushing will be necessary every time the compressor is removed.



#### Dry Air Flushing Kit (41-50014)



#### Mobile Nitrogen Flushing Kit (41-50020)



Cool  
Zone  
Automotive

## REPLACING A FAILED A/C COMPRESSOR

The compressor is the heart of an A/C system. Without one, you're left with simple blowing fans that do nothing more than suck the outside air and its atmospheric temperatures into your vehicle.

*It is important to remember that compressors do not "just fail" there will be a reason for its failure and this must be found and rectified prior to the new compressor being fitted.*

### CORRECT INSTALLATION OF A COMPRESSOR

- Firstly, visually inspect the replacement compressor checking for any damage and that it is complete and matches the unit you are replacing.



NEW UNIT



OLD UNIT

- Empty the refrigerant in the system with certified equipment then remove the old unit. Make sure the new unit matches the old unit by checking the clutch alignment, mounting points and electrical plug connection. In some cases it may be necessary to swap the hose manifold, pressure switch or electrical plug from the old unit onto the new unit.

- New compressors are generally supplied with a full system charge of oil, unless stated otherwise in the box or on the new compressor.

IT IS ADVISABLE TO CHECK TO ENSURE IT HAS THE CORRECT OIL QUANTITY FOR YOUR VEHICLE.

- When a compressor is removed approximately 70% of the oil will remain in the system's evaporator, condenser and hoses/pipes. Because of this you MUST flush the system to remove any excess oil and any debris from the old failed compressor.



Dry Air Flushing Kit  
41-50014



Mobile Nitrogen Flushing Kit  
41-50020

- You MUST change the receiver drier EVERYTIME you open the system but especially once you have changed a compressor, because debris could be hiding inside the filter.

- Once the system has been completely flushed and all the flush has been removed the new compressor can now be installed, checking the clutch alignment once again. Rotate the front plate 10 times clockwise and 10 times anti clockwise to remove any oil build up in the compressor (this will help prevent liquid locking upon the first start up).

- Vacuum the system for a minimum of 45 mins, this will remove any moisture that has managed to enter the system when replacing the failed compressor.

- Recharge the system checking fan and clutch operation. Make sure to check that the air temperature coming out of the vents remains above freezing point at all times.

**Cool  
Zone**  
Automotive

