



**FOURSEASONS**<sup>®</sup>  
Quality, Coverage, Service

**Tools, Chemicals & Service Items**

**“The right tools for the job!”**



[www.4s.com](http://www.4s.com)

# Tools

## ELECTRONICALLY CONTROLLED VARIABLE DISPLACEMENT COMPRESSOR (ECV) TOOL P/N 69636

As HVAC technology evolves, diagnosing the root cause of failure on ECV compressors has become challenging. The ECV Compressor Diagnostic Tool puts you in control of compressor pumping displacement, making diagnosis simple.



### ECV Tool Kit Includes

- Hand held ECV compressor tester unit
- Power leads and wire harness set
- 13 female connectors\*
- 17 male connectors\*
- Convenient carrying case
- Instruction sheet



Scan here to see more information on the ECV tool.



Scan here for the connector application guide.

### Interface Adapter for ECV Diagnostic Tool P/N 69636 P/N 69702

- Perform tests on both positive and ground side controlled solenoids
- Monitor the duty cycle command signal in “normal” mode
- Confirm compressor operation and function in “manual” mode
- Directly measure ECV control solenoid resistance
- Confirm high speed cooling fan operation by controlling high side pressure



\*Tool comes with 30 custom pigtailed to connect to virtually every manufacturer's computer controlled compressor. Some models from these manufacturers use ECV compressors: BMW, Chrysler, General Motors, Hyundai, Jaguar, Kia, Land Rover, Mercedes Benz, Nissan Infiniti, Subaru, Toyota/Lexus and VW/Audi/Porsche.

## ELECTRONICALLY CONTROLLED VARIABLE DISPLACEMENT COMPRESSOR (ECV) TOOL CONNECTORS

Electronically Controlled Variable Displacement Compressor (ECV) Connectors are now available for individual purchase. To offer expanded testing capabilities, ten of these connectors, detailed below, are application specific for late model domestic and import vehicles and are not available in the ECV Diagnostic Tool Kit.

All ECV connectors are available for individual purchase as needed.



Part Number	Connector Type	Application**
26902	Male	(17-10) Jaguar, (20-07) Volvo and (13-08) Land Rover
26903	Female	(13-07) BMW
26904	Female	(10-04) Jaguar and (09-05) Land Rover
26905	Female	(20-11) GM, (21-17) Ford, (20-16) Honda
26906	Female	(20-16) BMW and (19-15) Mini
26907	Female	(20-19) Infiniti and (22-17) Nissan
26919	Male	(17-15) Hyundai
26920	Male	(21-16) BMW, (19-17) Hyundai, (15-13) Jaguar, (20-17) Kia and (21-17) Porsche
26921	Male	(21-07) BMW and (19-15) Mini
26922	Male	(18-17) Nissan

\*\* See eCatalog for full application information.

# Tools

## YF MANIFOLD GAUGE SET P/N 59203

The TEMP Select® YF Manifold Gauge Set allows testing and diagnosis of A/C systems by comparing the high and low sides of the system with O.E. specifications. This set can also be used to adjust the system pressures to meet O.E. specs.



### Benefits

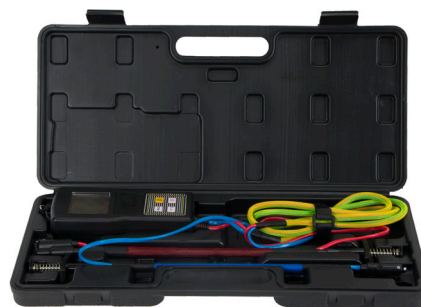
- Anti-flutter gauges for smooth operation
- Easy to read temperature gauge scales
- Color coded anodized front-facing knobs
- Easy gauge recalibration ensures accuracy
- Large sight glass for visual check of refrigerant

### Includes

- (3) 72" hoses
  - P/N 59081 Blue hose
  - P/N 59082 Yellow hose
  - P/N 59083 Red hose
- 2 color coded anodized R1234yf couplers
  - P/N 59084 High side gauge
  - P/N 59085 Low side gauge

## TWO CHANNEL A/C THERMOMETER P/N 69261

Servicing and repairing automotive air conditioning systems today is an exacting science. Temperature testing is important for both diagnosis and validation of A/C repairs and allows each component of the A/C system to be tested for performance and efficiency.



### Benefits

- Validate the repair after compressor replacement
- Confirm and optimize the system charge level
- Focus your diagnostic direction
- Measure overall system efficiency
- Part of preventative system maintenance

## YF REFRIGERANT LEAK DETECTOR P/N 69010

The YF Refrigerant Leak Detector makes diagnosing a leak in the air conditioning system easy and quick. Being able to diagnose quickly and accurately helps ensure that the job is done right.



### Benefits

- 15.5" flexible test probe
- Infrared gas sensor
- Automatic zero and background compensation
- High/Medium/Low leak sensitivity selector
- Carrying case included

# Tools

## SPOTGUN™ R1234YF INJECTION KIT

P/N 69037

### Benefits

- Inject precise amounts of dye into the A/C system
- Includes injector with R1234yf adapter, A/C ExtenDye™ cartridge, service stickers
- A/C ExtenDye™ is compatible with both R1234yf and R134a refrigerants and is hybrid safe\*



\* Specifically formulated to protect all hybrid A/C system components, including electrically driven compressors.

## REFRIGERANT SCALE

P/N 69004

### Benefits

- Max weighting of 100kg
- Accurate at  $\pm 0.05\%$  RDG +10g
- Operation temperature of 14°F to 104°F
- Battery operated and requires no charging



## REFRIGERANT SCALE WITH SOLENOID VALVE

P/N 69006

### Benefits

- Max weighting of 100kg
- Accurate at  $\pm 0.05\%$  RDG +10g
- Operation temperature of 14°F to 104°F
- Battery operated and requires no charging
- Included solenoid meters the exact amount of refrigerant needed



## UNIVERSAL SPANNER WRENCH

P/N 59419

### Benefits

- Use to prevent the clutch plate from turning when moving the shaft nut
- Fits both domestic and import applications
- Adjustable 3-stud design
- Sure-grip handle for ease of use



# Tools

## INFRARED A/C THERMOMETER WITH LASER

P/N 69005

### Benefits

- Temperature range from -76°F to 932°F
- Accuracy of  $\pm 4^\circ\text{F}$
- Instant temperature read
- Non-contact
- High output laser sighting to easily see where your reading is being taken
- Integrated LED work light



## VACUUM PUMP

P/N 69015

### Benefits

- 6CFM single stage pump
- Vacuum rating as low as 50 microns
- Gas ballast valve increases vacuum speed
- Dual voltage operation of 110 V or 220 V
- Exhaust valve enables a 99.99% seal on discharge port
- Air-cooled motor designed for operation in high ambient temperatures



## NEUTRONICS REFRIGERANT IDENTIFIER

P/N 69024

### Benefits

- Identifies R-12, R-134a and R-1234yf refrigerants
- Quickly and accurately determines refrigerant purity
- Displays percentage purity of R1234yf, R134a, R12, R22 and hydrocarbons



# Oils and Lubricants

It is now more critical than ever to use the recommended oil type, amount and viscosity for a vehicle's compressor type and A/C system. TEMP Select® offers quality oils and lubricants for every application!



## R134a Compatible

- PAG 46**
- 59007 (8 oz)
- 59079 (1 qt)
- PAG 100**
- 59002 (8 oz)
- 59077 (1 qt)
- PAG 150**
- 59003 (8 oz)
- 59078 (1 qt)

- Ester 100 Lubricant**
- 59009 (8 oz)
- 59099 (1 qt)
- 59089 (8 oz) w/Dye

- Hybrid Electric**
- 59889 (8 oz)

- Vacuum Pump Oil**
- 59091 (1 qt)

## R12 Compatible

- Mineral Lubricant**
- 59000 (1 qt)

## R1234yf Compatible

- HF0-1234yf Refrigerant Lubricant**
- 59234 (8 oz)

## P/N 59890 Polyolester (POE) Oil

When performing an A/C repair, it is imperative to use the correct refrigerant oil. Compatible with both R134a and R1234yf systems, the TEMP Select® POE oil is formulated for its dielectric properties and low flammability to ensure that every job is completed according to OEM specifications. Note that some Honda and Acura vehicles require POE oil instead of traditional PAG and these compressor part numbers will include a label detailing which lubricant should be used. Always refer to manufacturer specifications.



## P/N 69344 ICE32® P/N 69003 ICE32®yf

ICE32® is a treatment for mobile A/C systems that creates an elasto-hydrodynamic film that adheres to metal surfaces. When professionally installed, ICE32® drastically and instantly improves the A/C system by reducing friction and promoting improved cooling performance. ICE32® is compatible with R134a systems while ICE32®yf is only compatible with mobile A/C systems that use YF refrigerant.



## P/N 59076

PAG 46 + ICE32®

## P/N 59059

PAG 100 + ICE32®

## P/N 59093

PAG 150 + ICE32®

## P/N 59094

HF01234yf + ICE32®yf

TEMP Select® offers four PAG oils with ICE32® included to help increase the efficiency of your system. These oils include 8 oz. of PAG plus 1 oz. of the appropriate ICE32® additive.



# O-Ring Service Parts Organizers

## P/N 24813 Air Conditioning Service Parts Organizer

- Contains 626 pieces
  - O-rings, sealing washers, valve cores, caps, metal gaskets and orifice tubes
- Covers domestic, European and Asian vehicles



## P/N 24819 Supplement Tray for P/N 24813

Upgrade your P/N 24813 kit to our P/N 24818 kit with this supplement tray!

- Contains 42 pieces
  - HFO-1234yf Components
    - O-rings, adapters, sealing washers, valve cores and refrigerant filters
- Covers domestic, European and Asian vehicles
- Includes late model coverage

## P/N 24818 A/C Specialist Parts Assortment with HFO-1234yf Components

- Contains 551 pieces
  - O-rings, sealing washers, valve cores, caps, metal gaskets and orifice tubes
- Covers domestic, European and Asian vehicles
- Includes late model coverage



## P/N 24800 R1234yf Component Tray

- Contains 56 pieces
  - R1234yf Components
    - Adapters, valve cores and caps
- Covers import and domestic YF vehicles



## P/N 24815 Heavy Duty & Off Road Air Conditioning Service Parts Organizer

- Contains 628 pieces
  - O-rings, garter springs, adapters, sealing washers, caps & valves, orifice tubes and valve cores
- Covers domestic, European and Asian vehicles

# Flush

Several quarts of flush are often required to completely flush a system, making it an expensive and labor intensive, but necessary, step in the repair process. It is one of the most important steps after a catastrophic compressor failure. Skipping the flush could void warranty or result in a comeback.

## DURA II Flush Solvent

25 oz P/N 69991; Gallon P/N 69992

- Premium, highly evaporative flush
- Removes all traces of solvent and oil residue
- Requires less evacuation time
- Non-flammable



## Flush Gun

P/N 59172

- Complete flush control
- Enables hands-free connection
- Maintains solvent momentum through component
- Allows seamless transition to air-purge
- Replacement flush gun hook available, P/N 59175



## TEMP Select® Flush Solvent

25 oz P/N 69994

- Highly effective, economical flush solvent
- Removes debris and contaminates

