



**YELLOW
JACKET®**

**AUTOMOTIVE
A/C TOOLS**

EDITION 66 CATALOG






*Certified to SAE J3030
(37860 includes SAE J2843)
(37840 includes SAE J2788)

*Certification by Intertek expected Q4 2015

RMS 37840 AND 37860 SERIES FEATURES:

- 37860 requires an SAE J2912™ compliant identifier (P/N 37865) for any operation, including recovery. If you already own one, no need to purchase!
- “Charge only” capability for R-134a (not permitted for R-1234yf per standards).
- Fully automatic air purging constantly monitors and purges non-condensables.
- Fast tank refills with no hose changes.
- 95% efficiency rating.
- Maintenance reminders for oil/filter changes.
- Automatic shut-off for full tank and high pressure situations.
- Heavy-duty shock resistant scale for accurate charging.
- Two-stage, 3 cfm vacuum pump for fast, high efficiency evacuation.
- 1/2 hp oil-filled hermetic compressor for speed and reliability.
- Fully factory tested - 34-point quality check.
- Choose from high- or low-side charging for vehicles with only one service fitting.
- For preventative maintenance, the machine alerts the technician to change vacuum pump oil and filters when due.
- Made in the USA 

REFRIGERANT MANAGEMENT SYSTEM 37840 AND 37860

The YELLOW JACKET® Refrigerant Management System (RMS) is the simplest, easiest-to-use A/C service center helping technicians meet today's tough service standards.

The RMS 37840 for R-134a and RMS 37860 for R-1234yf provide full cycle recovery/recycle/evacuate/recharge to bring vehicles back to factory specifications. The easy-to-use, portable, full color interface walks you quickly through each step for easy operation and fast service.


RMS 37840 AND 37860 CAPABILITIES:

- Advanced user interface and onboard diagnostics.
- Automatic scale calibration.
- Vacuum hold feature for leak detection.
- Real time remote support.
- Meets standard requirements for vacuum pull control and system leak test.
- Charge accuracy within 1/2 oz. (14 grams).
- Automatic oil drain.
- High- or Low-side charging.
- Digital on-screen pressure readings.
- Built-in self diagnostics.
- Touch screen keypad/interface.
- 120V operating system.
- Run time hours tabulated for components.
- Easy tank access for quick removal and changeout.
- 50 pound storage tank.
- Tablet can print to existing shop printer (requires local area network or USB cable - not included).
- 10 foot hose - 25% longer than standard.
- One year parts and labor warrant (see full warranty statement for exclusions).
- Tablet follows manufacturer's warranty.
- Lifetime technical support.
- Patent pending.

UPC No.	
37840	Automatic RMS for R-134a
37860	Automatic RMS for R-1234yf
UPC No.	Optional Accessories
37842	Oil injector kit for R-134a
37862	Oil injector kit for R-1234yf
37845	Conversion kit - R-134a to R-1234yf
37843	Sealant trap kit for R-134a
37863	Sealant trap kit for R-1234yf
37865	Refrigerant identifier for R-1234yf
37912	Security kit for tablet
37913	Dust cover
37916	Side bag with mounting cover
UPC No.	Replacement Parts
37911	Tablet
95026	50 lb. DOT R-134a blue recovery tank
95028	50 lb. DOT/SAE R-1234yf recovery tank

THE TRAP™ SEALANT FILTER SYSTEM



This rugged filter cartridge connects in-line between a vehicle and any A/C service equipment to protect refrigerant supply, recovery system and oil separators. Hi-tech design captures large volumes of sealant oil sludge and other contaminants while still filtering effectively without plugging. Maintenance is fast and simple with a clean-out drain, and when necessary, easy filter replacement. 

UPC No.	Description:
38080	The TRAP™ sealant filter system, 1/2" ACME fittings
38081	The TRAP™ replacement filter kit
38087	The TRAP™ sealant filter system, 1/4" flare fittings
38139	The TRAP™ dual (2) sealant filter system, 1/2" ACME fittings
01152	30" R-134a blue hose, 1/2" ACME x 1/2" ACME 45° ball valve end
01153	30" R-134a red hose, 1/2" ACME x 1/2" ACME 45° ball valve end

RECHARGE OIL PUMP




Oil recharge pump for replacing oil in auto A/C systems or into compressors after oil removal. Easily works on all system pressures to 300 psi, .35 oz. per stroke. Includes bottle with calibrations, hose and low-side R-134a coupler. May be used on R-12 and R-134a systems.

UPC No.	Description:
77950	Oil recharge pump, bottle, hose and service couplers

CALIBRATED A/C SCREW INJECTION



This 2 oz. injector is easy to refill and easy to operate. Calibrations are clearly marked on the injector. Connect to A/C low-side and rotate handle. AC/R and auto models. Maximum port pressure of 250 psi. 


UPC No.	Description:
69729	Universal screw injector
69730	R-12 Calibrated A/C screw injector
69731	Auto R-134a calibrated A/C screw injector with service coupler
69732	Auto R-134a calibrated A/C screw injector without service coupler

CONTAMINATED R-134A/R-1234YF REFRIGERANT RECOVERY MACHINE



Compressor oil level check and oil drain port for easy compressor maintenance

High efficiency fan for maximum air flow and cool running, even in high ambient conditions

- CPR valve regulates refrigerant to the compressor, eliminating the need for the technician to throttle the suction valve
- Pressure equalization valve for reliable starting even under high discharge pressure
- High pressure switch with automatic reset, tank overflow sensor, and external circuit breaker 

Specifications:	37825
Compressor	1/6 hermetic filled w/ polyol ester oil
Weight	32 lbs.
Dimensions	12.4"W x 19.3"L x 12.5"H

UPC No.	Description:
37825	R-134a/R-1234yf Contaminated recovery machine

YJ-LTE™ REFRIGERANT RECOVERY MACHINE

Designed and assembled in the U.S.A 



Small, but packed with the features you need at a price your budget can handle. Like a built in purge circuit which eliminates the need for external equipment and makes for easy clearing at the end of the job. And

superior condenser performance which means the recovery tank stays cooler for a longer period of time, allowing you to recover more refrigerant without high-pressure cut-out. And it's simple to operate, too, with a single valve, single gauge control panel.

Specifications:	9573x
Compressor	1/2 hp, twin cylinder, reciprocating, oil-less
Weight	24 lbs.
Dimensions	9.0"W x 13.5"L x 11.5"H

UPC#	Description
95730	YJ-LTE Refrigerant Recovery System
95732	YJ-LTE CSA Refrigerant Recovery System
95733	YJ-LTE 230V/50 Hz (Euro and UK plug)
95738	YJ-LTE™ 230V/50 Hz (AU/NZ plug)
95560	1/4" M x F Filter Fitting

LEAK DETECTION

P/T AND VACUUM GAUGES


CHARGING HOSES

BALL VALVES AND ADAPTERS

BULLET™ 7 CFM VACUUM PUMP



Wide mouth oil reservoir port for easier, cleaner filling. The YELLOW JACKET® BULLET™ vacuum pump is a two-stage rotary vane oil-sealed 7 CFM pump that pulls down to 25 microns or better.

- Wide mouth oil reservoir port for easier, cleaner filling. Doubles as pump exhaust; threaded to attach garden hose for exhausting to remote location
- Large oil sight glass for easy monitoring of oil level
- Large brass oil drain for easy access to fast oil changes
- Internal intake check valve prevents oil backup into the system during a power failure
- Intake filter screen keeps damaging particles from entering the pump
- Heavy-duty rotors and bearings
- Heavy-duty steel handle for well-balanced carrying
- Tethered port caps stay with the pump
- Stable base; wide-stance metal with rubber overlay
- 24-month limited over-the-counter warranty
- Made in the USA 


Specifications:	
Free air displacement	7 CFM
Number of stages	Two-stage rotary vane
Field test	25 microns
Intake	1/4" x 3/8" x 3/8"
Motor	1/2 hp – 1725 rpm
Internal capacitor thermal overload	Temperature rise 40° C
Voltage (single phase)	115V/60 Hz
Power cord	6' – motor mounted switch
Oil capacity	28 oz.
Dimensions	16.25" L x 6" W x 11.5" H
Net weight	30.8 lbs. (14.0 kg)

UPC No.	Description:
93600	7 CFM 115V/60 Hz single phase

SUPEREVAC™ PUMPS



The SUPEREVAC™ vacuum pump is a highly efficient, two-stage rotary vane oil-sealed pump field-rated at 15 microns or better. The lower the micron rating, the better the pump performance.


- Isolation valve for oil changes without losing vacuum in the system
- Built-in vacuum indicator gauge and large oil sight glass for easy monitoring of oil level
- Large brass oil drain for easy access to fast oil changes
- Gas ballast valve keeps oil cleaner, longer during evacuation of wet systems
- Made in the USA 

Specifications:	Model 93514	Model 93515
CFM	4	6
Field test	15 microns	15 microns
Intake	1/4" and 1/2" ACME	1/4" and 1/2" ACME
Motor	1/2 hp - 1725 rpm	1/2 hp - 1725 rpm
Internal capacitor thermal overload	Temp. rise 40°C	Temp. rise 40°C
Voltage (single phase)	115 Volt - 60 cycle	115 Volt - 60 cycle
Oil capacity	36 oz.	34 oz.
Dimensions (LxWxH)	15.25" x 6.75" x 12"	16.25" x 6.75" x 12"
Net weight (without oil)	28.3 lbs. (12.8 kg)	29.0 lbs. (13.1 kg)

VACUUM PUMP OIL



Specially refined and formulated for extremely low vapor pressure and high pump efficiency at all temperature conditions.

We recommend using the current mineral-based pump oil when working with both R-12 and R-134a A/C systems. 

UPC No.	Description:
93091	Pint of vacuum oil - 24/case
93092	Quart of vacuum oil - 12/case
93096	Gallon of vacuum oil - 6/case

UNIVERSAL A/C DYE INJECTORS AND HOSE

Universal A/C dye injectors work in AC/R and auto A/C systems. Four 1/4 oz. applications of dye in each disposable tube make it economical, fast and clean. Hose features back flow check valve.

*69702 and 69703 not for direct injection into R-410A systems.

US Patent 6,164,348



UPC No.	Description:
69702*	Hose plus 2 injectors for R-12
69703*	Auto R-134a hose, coupling and injectors
69705	Injector hose with SealRight™ for R-12
69706	Auto R-134a injector hose and service coupler

UNIVERSAL A/C DISPOSABLE INJECTORS



Universal disposable 1 oz. applicator for fast, economical dispensing. Universal dye for all common refrigerants and oils, minimizing inventory. Four 1/4 oz.

applications for auto A/C. Less costly and faster than many other methods. Not for direct injection into R-410A systems.



UPC No.	Description:	Quantity:
69700	1 oz. (30 ml) injector (24 automotive A/C applications/cs.)	6/case
69721	1 oz. (30 ml) injector (8 automotive A/C applications/pkg.)	2 pkg.
69727	1 oz. (30 ml) injector (4 automotive A/C applications/pkg.)	single

MICRO LED UV LEAK DETECTION KITS AND LAMPS

FOR ALL A/C SYSTEMS AND LAMPS



Individual reflectors surround each of five LEDs recessed for protection in the stainless steel head.

- 69782 features five UV bulbs for 395-415nm wavelength
- Lifetime LEDs
- Waterproof
- AA Alkaline battery included

UPC No.	Description:
69788*	UV LED flashlight and dye kit for auto
69789*	UV LED flashlight and dye kit for AC/R
69782	395-415nm wavelength UV LED flashlight
69793	Replacement pouch for LED (for older style light with black casing)
69794	Lithium battery - 2 pak (for older style light with black casing)

*Not for direct injection into R-410A systems

FLUORESCENT SOLUTIONS FOR NON-REFRIGERANT APPLICATIONS



The oil and fluid dye solution is for finding leaks in oil-based applications. **Use 1 oz. per 2 gallons of oil.**



- Pin point leaks in milling machines and hydraulic systems such as cherry pickers
- Find seal and gasket leaks in engines, compressors and transmissions
- Locate leaks in gasoline or diesel fuel equipment, offset printing presses, injection-molding machines, locomotive engine oil coolers and oil-cooled chillers
- **H₂O solution** glows blue at leak sources in large closed-loop water systems. Use one pint per 1,000 gallons of water.
- Detect leaks in storage tanks and other high volume containers, as well as associated piping, valves, condensers, sprinkler systems, pumps, etc.
- Detect water leakage in any enclosed circulatory system or static system that can be pressurized or agitated

UPC No.	Description:	Quantity:
69733	1 oz. (30 ml) oil and fluid dye	6/case
69734	1 oz. (30 ml) oil and fluid dye	24/case
69735	8 oz. (240 ml) oil and fluid dye	1/case

AccuProbe™ UV AND AccuProbe™ II LEAK DETECTORS



69336

Use the electrolyte sensor or UV technology (or both at the same time) to detect HFC, HCFC and CFC refrigerants, including SNAP approved hydrocarbon blends.

The Smart Alarm LED shows how big or small a leak is on a scale of one to nine. With the electrolyte sensor, UV lights and Smart Alarm™ indicator, this is the only tool you need for fast, easy and certain leak detection.

The ultra-sensitive sensor of the YELLOW JACKET AccuProbe UV Handheld Leak Detector allows it to detect even the most difficult to detect R-1234yf, R-134a, R-404A, R-407C and R-410A refrigerants. Our exclusive solid electrolyte sensor technology reduces heat and gives the sensor longer life than traditional heated anode or heated diode detectors.

UPC No.	Description:
69336	AccuProbe™ UV leak detector (with case)
69354	AccuProbe™ II leak detector (with pouch)

DIGITAL ELECTRONIC CHARGING SCALE



- Calibration standards traceable to NIST
- Removable control module on retractable 5' coiled cord
- Mechanical overload protection and "OL" alert on LCD

Programmable electronic charging scales have added capabilities for automated, faster and more economical charging. Simply program

the charging weight and the valve will close automatically when the charge is complete.

- Schrader valve prevents backflow through solenoid
- Charging accuracy is equal to scale accuracy +/- 1/4 oz.
- Solenoid valve with 400 psi maximum operating pressure differential (MOPD) allows metering broad range of refrigerants.



UPC No.	Description:
68802	Electronic charging scale 110 lbs. (50 kg)
68803	Programmable charging scale 110 lbs. (50 kg)



69354

The AccuProbe II comes with all of the features of AccuProbe without the Smart Alarm indicator, flashing tip, UV lights and mute.



FEATURES:

- Improved, robust, ergonomic design is easy to use in close areas and extendable into hard-to-reach areas
- Long life, stable sensor
- Instantaneous response time
- Clears quickly from large amounts of refrigerant
- Automatic calibration and reset to environment
- Microcontroller technology
- 18-month limited warranty
- SAE J2791 certified

CHARGING SCALE

EXCELLENT RESOLUTION AND ACCURACY



The 220 lb. capacity of the YELLOW JACKET® Digital Charging Scale makes it a great solution for both large capacity systems and critical charging of small systems. Its 0.1 oz. resolution and 0.5% accuracy under all conditions make it the most accurate and precise refrigerant scale on the market.

Can be easily re-calibrated in the field with inexpensive reference weights.

Programmable—enter desired charge weight and built-in alarm indicates when threshold has been reached

Built-in memory remembers all previous settings.



UPC No.	Description:
68860	220 lb. Charging scale with bag

RECOVERY AND RECHARGE

VACUUM PUMPS

LEAK DETECTORS AND SCALES

MANIFOLDS AND GAUGES

FITTINGS AND COUPLERS

TUBING TOOLS

ManTooth™ WIRELESS DIGITAL PRESSURE/TEMPERATURE GAUGE

SIMPLIFY AND AUTMATE MEASUREMENTS, SAVE TIME AND REDUCE COSTS



The YELLOW JACKET® ManTooth™ Wireless Digital P/T Gauge provides wireless connection to your smart device so you can test the system without losing refrigerant (no hoses or manifolds necessary)! The free downloadable ManTooth RSA app wirelessly calculates and displays the system's actual pressures, temperatures, superheat and subcooling in an easy-to-read color format on your iPhone®, iPad® or Android™ device.

Additional Features:

- Built-in Schrader ports to easily adjust refrigerant charge
- Range up to 400' (unobstructed)
- YELLOW JACKET ManTooth RSA app (free download)
- Two-year warranty
- Screenshot allows you to save P/T readings from your sessions which can be automatically organized by location and unit being serviced
- Share screenshots via e-mail right from your phone
- Easily track and store service history
- Rechargeable lithium polymer battery with 10 hours battery life



Made for iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5, iPhone 4s, iPhone 4, iPad Air 2, iPad Air, iPad mini 3, iPad with Retina display, iPad (4th generation), iPad (3rd generation), iPad 2

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UPC No.	Description:
67001	ManTooth™ Single Pressure Gauge (includes P/T Module with boot, temperature probe clamp, and USB cable)
67002	ManTooth™ Dual Pressure Gauge Set (includes P/T Module and tether unit with boots, two temperature probe clamps, and USB cable in case)
67003	Two (2) ManTooth™ Single Pressure Gauges (includes two P/T Modules with boots, two temperature probe clamps, and two USB cables in case)

DIGITAL VACUUM GAUGE

SEVEN UNITS OF VACUUM FOR CONFIDENCE



This easy-to-use gauge shows that air and moisture have been removed from the system. **Displays down to the equivalent of 10 microns of vacuum to let you know that your vacuum pump is clean and performing properly.** If the sensor gets dirty, simply plug a new sensor (450

psi positive pressure) into the gauge, run through a quick calibration process and be back on the job within minutes.

DIGITAL VACUUM GAUGE FEATURES:

- Unique patented thermal conductivity sensor automatically compensates for temperature
- Displays seven different units of vacuum (microns, milliTorr, Torr, millimeters of mercury, millibar, kiloPascal and Pascal)
- 32° to 122°F (0° to 50°C) operating temperature
- Approximately 25 hours continuous battery life
- Made in the USA

UPC No.	Description:
69086	Hand-held vacuum gauge with fabric carry pouch
69087	Replacement sensor for 69086
69091	Replacement fabric pouch for 69086



DIGITAL LCD ECONOMY VACUUM GAUGE

The digital LCD economy vacuum gauge indicates air and moisture have been removed from the system. Track down 14 increments from atmosphere to 25 microns to know that the system is clean and the vacuum pump is performing

properly. Packaged complete with 9V alkaline battery and hanging hook.

- Unique thermal conductivity sensor automatically compensates for temperature with no calibration
- Easy-to-clean sensor handles 450 psi positive pressure
- Calibration standards traceable to NIST
- Made in the USA

UPC No.	Description:
69080	Digital LCD vacuum gauge with battery, hook and pouch

RECOVERY AND RECHARGE

LEAK DETECTION

PRESSURE/TEMP AND VACUUM GAUGES


CHARGING HOSES

BALL VALVES AND ADAPTERS

TITAN™ 2-VALVE MANIFOLD



Forged aluminum alloy body makes this unit lightweight for handling ease with the durability and reliability required for repeated use.


- Front access for easy field recalibration
- Double “O” ring piston for reliability and long service life
- Exclusive 100 mesh filter in-line on all flare fittings helps keep out particulate material and extend the life of the seats
- Contoured easy-grip handles for positive control; color-coded for ready identification
- Sight glass to easily view refrigerant movement and condition during charging and recovery
- Optional protective gauge boots available
- Heavy-duty hook won't pull out
- Made in the USA 

UPC No.	Hose:	Manifold Ports:	Couplers:
R-12/22/134a combination			
49840*	No hose	1/4" flare	None
49841	72" PLUS II™ SealRight™ – RYB	1/4" flare	Premium
49842	120" PLUS II™ SealRight™ – RYB	1/4" flare	Premium
R-134a (R-12/22/134a gauges)			
49846	No hose	1/2" ACME	None
49847	72" PLUS II™ 1/2" ACME x 14mm and 1/2" ACME SealRight™	1/2" ACME	Premium
49848	120" PLUS II™ 1/2" ACME x 14mm and 1/2" ACME SealRight™	1/2" ACME	Premium
R-12 (R-12/22/134a gauges)			
49843	No hose	1/4" flare	None
49844	72" PLUS II™ SealRight™ – RYB	1/4" flare	None
49845	120" PLUS II™ SealRight™ – RYB	1/4" flare	None
R-1234yf (R-1234yf gauges)			
49849	72" PLUS II™ SAE RYB	1/2" ACME Left Hand	R-1234yf

*Manifold includes high- and low-side anchors

SERIES 41 2-VALVE MANIFOLD WITH 1/4" PORTS



Forged body is solid brass for durability. Full porting maximizes capacity. Metal valve handles are full size for easy operation. Hose anchors are forged into back of body at 45°. Flutterless™ technology helps minimize needle pulsation for easier, more accurate readings. Double “O” ring piston for reliability and long service life. 

UPC No.	Gauge:	Hose:
R-134a/R-12 combination manifolds		
41339	2-1/2" red and blue	72" R,B Str. x Str. quick coupler and Y Str. x 1/2" ACME 45° SealRight™ and premium couplers

REPLACEMENT GAUGES

2-1/2" (68 mm) GAUGES



High-visibility dials with colored scales for easy reading. Flutterless™ technology minimizes needle pulsation for 3-2-3 percent accuracy. Steel cases.

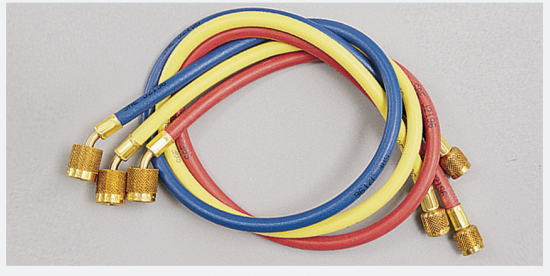
3-1/8" (80 mm) RED AND BLUE DRY MANIFOLD GAUGES °F – 1% ACCURACY




Housed in a red or blue steel case with front recalibrator screw and brass gauge movement. Flutterless™ technology with brass surge protector minimizes needle pulsation.

UPC No.	Description:
R-12, R-22, R-134a	
49013	2-1/2" red pressure °F gauge
49014	2-1/2" blue compound °F gauge
49103	3-1/8" red pressure °F gauge
49104	3-1/8" blue compound °F gauge
R-12, R-134a, R-413A	
49165	3-1/8" red pressure °C gauge
49166	3-1/8" blue compound °C gauge
R-1234yf	
49161	3-1/8" red pressure universal gauge
49162	3-1/8" blue compound universal gauge

YELLOW JACKET® PLUS II™ 1/4" HOSE WITH SEALRIGHT™ LOW LOSS ANTI-BLOW BACK FITTING

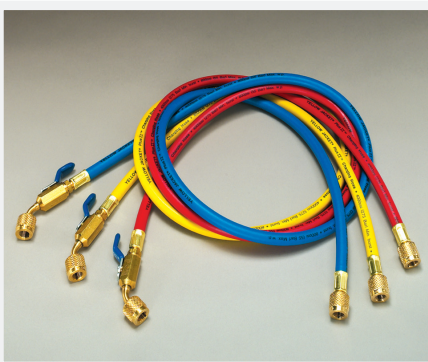


PLUS II™ hoses have proven performance benefits of the original hose, plus double barrier protection for R-12 and R-134a.

- **Nylon permeation barrier** meets UL requirements
- **Moisture barrier** provides improved resistance to moisture migration which contaminates expensive refrigerant
- 4000 psi burst and 800 psi working pressure
- UL 1963 recognized component for R-12 and R-134a
- Immediately traps refrigerant in the hose when disconnected, helping meet non-venting regulations and prevent finger burns
- 45° end for easy installation
- Made in the USA 

PLUS II™ Hoses – 45° SealRight fitting one end				
Length	Color and UPC No.			
	Yellow	Blue	Red	3 Pak
72"	22072	22272	22672	22986
96"	22096	22296	22696	22988

YELLOW JACKET® PLUS II™ HOSES WITH COMPACT BALL VALVE END

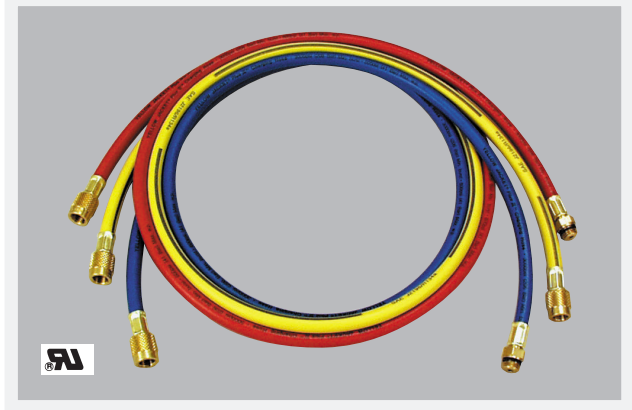


Same features as above but with full flow for faster recovery.

PLUS II™ Hoses – standard 1/4" flare fittings				
Length	Color and UPC No.			
	Yellow	Blue	Red	3 Pak
72"	29072	29272	29672	29986
96"	29096	29296	29696	29988

UL recognized assemblies (File SA 9737).

AUTOMOTIVE MANIFOLD HOSES FOR R-134a SYSTEMS



These 1/4" hoses combine PLUS II™ hose with 1/2" Acme fittings to meet SAE requirements. You get PLUS II™ double barrier protection in a hose manufactured specifically for automotive applications. Fitting threads are 1/2" Acme Female and 14 mm Acme fittings.



Color:	Yellow	Red	Blue	3 Pak
Length:	SealRight Straight x 45° ACME	1/2" fe. Acme x 14 mm Male	1/2" fe. Acme x 14 mm Male	
60"	27460	27660	27260	27102
72"	27472	27672	27272	27101
96"	27496	27696	27296	27104
120"	27510	27710	27310	27103

Longer lengths available. Please specify.

*These hoses meet SAE requirements J2196 and are UL 1963 recognized components for R-12 and R-134a.

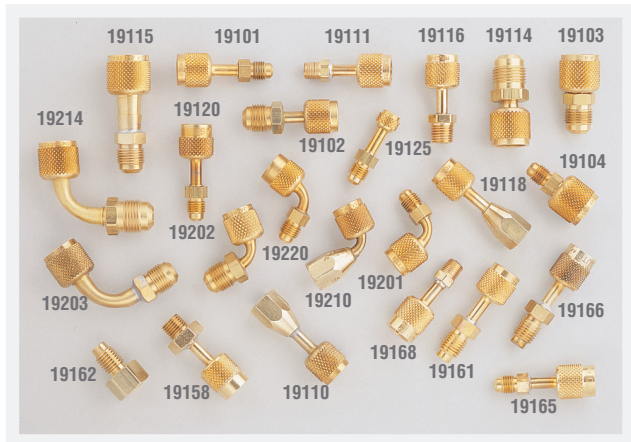
AUTOMOTIVE CHARGING HOSES FOR R-1234YF SYSTEMS



Charging hoses designed specifically for R-1234yf. SAE J2788 approved. 3/16" hose.

Color	Yellow	Blue	Red
Length	(12 mm barb x 45° QC)	(12 mm x 12 mm barb)	
36"	17803	17823	17863
48"	17804	17824	17864
60"	17805	17825	17865
72"	17806	17826	17866
96"	17808	17828	17868
120"	17810	17830	17870
144"	17812	17832	17872
180"	17815	17835	17875

AUTO A/C FITTINGS AND COUPLERS



All couplers in our expanded line are manufactured full size with deep knurling for easy handling.

- Patented CH14 Adjust-a-Valve opener in all 1/4" female ends
- Acme conversion couplers are available to aid in recovery where recovery tank has incompatible threads
- Also used to convert R-134a refrigerant cylinder threads as necessary
- Made in the USA

UPC No.	Description:
R-12	Couplers/Adapters
19171	1/4" fe QC x 1/4" male fl. with Schrader
19191	1/4" fe QC x 90° 1/4" male fl. with Schrader
19125	1/8" fe QC x 1/4" male fl. (Ford)
19120	3/16" fe QC x 1/4" male fl. (GM)
19101	1/4" fe QC x 1/4" male fl.
19220	3/16" fe QC 90° x 1/4" male fl.
19201	1/4" fe QC 90° x 1/4" male fl.
19109	1/4" SealRight™ x 1/4" male fl.
19208	1/4" SealRight™ 45° x 1/4" male fl.
19209	1/4" SealRight™ 90° x 1/4" male fl.
R-134a	Couplers/Adapters
19161	1/4" fe QC x 1/2" male Acme
19102	1/4" fe QC x 3/8" male fl.
19166	1/2" Acme x 1/2" Acme male fl.
19165	1/2" Acme fe x 1/4" male fl.
19158	1/2" Acme fe x 14 mm male fl.
19169	1/2" Acme SealRight™ x 1/2" Acme male fl.
19163	1/2" Acme SealRight™ x 1/4" male fl.
19157	14 mm male x 1/4" male fl.
19162	1/2" Acme male x 1/4" female fl. hex
19168	1/2" Acme fe x 1/8" male pipe
40265	1/2" Acme male 1/8" NPT half union
19142	1/2" Acme union

AUTOMOTIVE R-134a A/C COUPLERS PREMIUM WITH CONTROL VALVE



Couplers interface with R-134a service ports. 14 mm female thread or 1/4" male flare available.

- Quick, easy connect/disconnect
- Control valve for access to systems even at working pressures
- Integral safety sleeve holds coupler securely to service port

- Highest flow characteristics
- Low profile for tight applications
- Made in the USA

UPC No.	Description:
41301	Chrome high-side x 14mm R-134a coupler
41302	Chrome low-side x 14mm R-134a coupler
41327	High-side x 3/8" m.fl., R-134a coupler
41328	Low-side x 3/8" m.fl., R-134a coupler
41337	High-side x 1/4" m.fl., R-134a coupler
41338	Low-side x 1/4" m.fl., R-134a coupler
41300	Replacement "O" rings (2 pak)

AUTOMOTIVE R-134a ECONOMY A/C COUPLERS



A basic R-134a service coupler with no control valve. Snaps on for instant flow.

UPC#	Description
41318	Lo-side coupler with 1/4" flare
41317	Hi-side coupler with 1/4" flare
41305	Replacement "O" ring set (6 pak)

AUTOMOTIVE R-1234YF A/C COUPLERS

- Couplers interface with 1234yf service ports.
- M12x1.5-6H Female thread
- Quick, easy connect/disconnect
- Integral safety sleeve holds coupler securely to service port



UPC#	Description
41441	R-1234yf hi-side coupler
41442	R-1234yf lo-side coupler

RECOVERY AND RECHARGE

VACUUM PUMPS

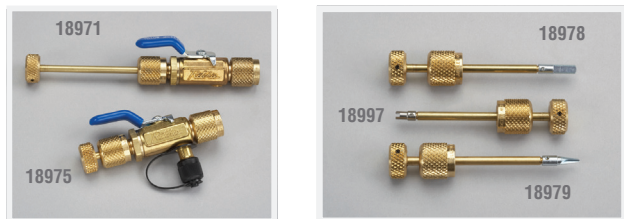
LEAK DETECTORS AND SCALES

MANIFOLDS AND GAUGES

FITTINGS AND COUPLERS

TUBING TOOLS

1/4" 4-IN-1 BALL VALVE TOOL FOR VACUUM, CHARGE, CORES AND RECOVERY



Remove and replace Schrader cores without losing charge.

- Extra 1/4" side port on 18975 to attach electronic micron vacuum gauge right at system for greater accuracy or to add refrigerant
- Evacuate and charge through an unrestricted line for increased speed and higher vacuum
- Core removal allows recovery unit to work at maximum efficiency, speeding the recovery process
- Made in the USA

UPC No.	Description:
18975	Vacuum/charge ball valve with side port
18971	Vacuum/charge ball valve without side port
18980	Accessory set - 2 piece
18978	Schrader rethreading accessory
18979	Broken Schrader remover accessory
18997	Grapppler rod/nut assembly
18973	Gasket for 18975 (5 pak)
18974	Seal Kit includes core, cap, 4 "O" rings, gasket

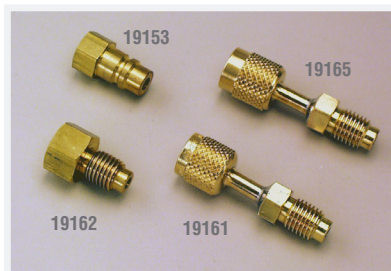
AUTOMOTIVE R-134a 3-IN-1 VACUUM/CHARGE RECOVER CORE TOOL



- **Core removal for vacuum and charges** lets you evacuate and charge through an unrestricted line for increased speed and higher vacuum
- **Core replacement**
- **Recovery valve** with core removal allows recovery unit to work at maximum efficiency, speeding the recovery process
- **Longer bore**
- **Designed for heavy-duty Eaton brand valves**

UPC No.	Description:
18964	Low-side R-134a auto valve core tool
18963	High-side R-134a auto valve core tool

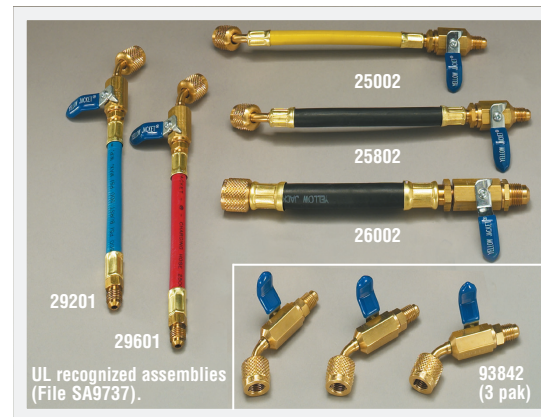
R-12 AND R-134a ADAPTERS



Conversion adapters from 1/4" and 3/16" threads to 1/2" Acme. Also adapter to convert R-134a refrigerant tank fitting for low-side quick coupler to remove gas.

UPC No.	Description:
19161	1/4" fe. QC x 1/2" male Acme
19162	1/4" fe. hex x 1/2" male Acme
19165	1/2" fe. Acme QC x 1/4" m. flare
19153	1/2" fe. Acme hex x 13 mm R-134a low-side male

9" FlexFlow™ AND LOW LOSS ADAPTER HOSES



- Easy retrofit of existing *PLUS II*™ hoses with ball valve capabilities
- Operating temperature -20° to 180°F (-28.8° to 82.2°C)
- Made in the USA

UPC No.	Description:
R-12	FlexFlow™ assemblies
25002	1/4" yellow FlexFlow™ adapter
25202	1/4" blue FlexFlow™ adapter
25602	1/4" red FlexFlow™ adapter
25980	3 pak: 25002, 25202, 25602
26202	3/8" yellow FlexFlow™ adapter
R-134a	FlexFlow™ assemblies
27002	1/2" Acme yellow FlexFlow™ adapter

UPC No.	Description:
Replacement parts	
19011	3/8" Replacement gasket (10 pak)
19020	1/4" Replacement gasket (10 pak)
19302	"Adjust-a-Valve" opener (10 pak)

Underwriters Laboratories Inc. Registered Component Mark – applies to all 1/4" Plus II™ and FlexFlow™ hoses.

RECOVERY AND RECHARGE

LEAK DETECTION

P/T AND VACUUM GAUGES

CHARGING HOSES

BALL VALVES AND ADAPTERS

HYDRAULIC TUBE EXPANDER KIT



- Saves time and money
- Eliminates fittings
- Easy one-hand operation
- Hydraulic power
- Lightweight and portable

UPC#	Description
60493	Hydraulic expander kit: heads for 3/8", 1/2", 5/8", 3/4", 7/8", 1-1/8", 1-3/8", 1-5/8" tubing O.D.; small cutter, tube reamer, carrying case and instructions
60497	Hydraulic expander kit: heads for 3/8", 1/2", 5/8", 3/4", 7/8", 1-1/8" tubing O.D.; carrying case and instructions
60494	Hydraulic expander pump with reamer in case
60495	Replacement expander pin 3/8" to 1-5/8"
60499	Replacement grease tube
60414-24	Replacement expander heads

RATCHET HAND TUBE BENDER



Easy one hand bending of 1/4" to 7/8" soft copper and soft aluminum. Hard copper must be annealed before bending.

- Quick change bending mandrels and shoes.
- Trouble free ratchet mechanism.
- Index marks to locate bends.
- Complete tube bender kit includes all items required to bend 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" and 7/8" tubing.

LIGHTWEIGHT SWAGE/FLARE KIT



- Lightweight, compact and portable.
- Quick-connect feature on yoke saves time during pin/cone changing.
- Built-in slide gauge stops tubing at the proper flare height without the guesswork.

The aluminum body and bar makes it half the weight of traditional steel designs.

- Six quick-change positions for flaring soft copper and aluminum tube.
- The chrome finish of the swaging pins allows for an easy swaging operation.
- One yoke for both flaring and swaging.
- Blow-molded carrying case included.

UPC#	Description
60430	6 positions for 1/4", 5/16", 3/8", 1/2", 5/8" and 3/4" O.D. tube

UPC#	Bending radius	Description
60331	—	Complete kit
60325	—	Deluxe kit - includes reverse bending mandrel
60326	1"	1/4" O.D. bending mandrel
60327	7/8"	5/16" O.D. bending mandrel
60332	1-3/16"	3/8" O.D. bending mandrel
60333	1-3/8"	1/2" O.D. bending mandrel
60334	1-15/16"	5/8" O.D. bending mandrel
60335	2-13/16"	3/4" O.D. bending mandrel
60336	3-3/8"	7/8" O.D. bending mandrel
60329	—	Crossbar assembly complete - 3/4" to 7/8"
60330	—	Crossbar assembly complete - 1/4" to 5/8"
60338	—	Plastic carrying case
60339	—	Ratchet body
60342	—	Reverse bending mandrel (sold separately)



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IMPORTANT NOTICE TO PURCHASER:

The products in this catalog are for use by trained service professionals only.

Many factors beyond the control of Ritchie Engineering Company, Inc. can affect the use and performance of the products in this catalog.

It is essential that the user evaluate any product in this catalog to determine the suitability of that product for a specific application. Using any product in a way that is not accepted as common practice can result in injury.

All products are for use as described only.