Express Warranty

All goods sold hereunder are warranted to be free from defects in material and workmanship and/or conform to applicable specifications, drawings, or blueprints. THESE EXPRESS WARRANTIES ARE IN LIEU OF AND EXCLUDE ALL OTHER WARRANTIES OR REPRESENTATIONS, EXPRESSED OR IMPLIED BY ANY LITERATURE, DATA, OR PERSON. Sellers sole obligation under these warranties shall be to credit or replace any item or part manufactured by Seller and which is proved to be other than as warranted.

Seller shall have the sole right to determine whether such parts shall be repaired or replaced or whether credit shall be issued. No allowance shall be made for any labor charges of Buyer for inspection, installation, or tear down for replacement of parts, adjustments, or repairs. In no event shall Seller be made liable for collateral, consequential, or contingent damages. Our products are not warranted for any time period, any measure of service, or any specific purpose. The use of SancTech’s products in refrigerants other than R12 or R134a will void all warranties.

If goods are claimed to be other than as warranted, Seller, upon notice promptly given, will either examine the goods at their site or issue shipping instructions for return to Seller (transportation cost paid by Buyer), and if any goods are proved to be other than as warranted, transportation costs (by least expensive method) to and from Seller’s plant will be borne by Seller and reimbursement or credit will be made for amounts so expended by Buyer.

Every such claim for breach of the warranties herein contained shall be deemed to be waived by the Buyer unless made in writing within ninety (90) days from the date of shipment of the goods to which claim relates. These warranties shall not extend to any goods or parts thereof which have been subject to abuse or neglect, damage by accident, rendered defective by reason of improper installation, or used for other than the express purpose for which it was designed and built. These warranties shall not apply to any goods or parts made from tools, materials, or parts furnished by the Buyer or acquired from others at his request and/or his specifications.

**ABBREVIATIONS**

<table>
<thead>
<tr>
<th>A/C</th>
<th>Air Conditioning</th>
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<tr>
<td>Alum</td>
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</tr>
<tr>
<td>Assy</td>
<td>Assembly</td>
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<tr>
<td>AT</td>
<td>Automatic Transmission</td>
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<td>Aux</td>
<td>Auxiliary</td>
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<td>BL</td>
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<tr>
<td>Brkt</td>
<td>Bracket</td>
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<tr>
<td>Calif</td>
<td>California</td>
</tr>
<tr>
<td>Can</td>
<td>Canada</td>
</tr>
<tr>
<td>Carb</td>
<td>Carburetor</td>
</tr>
<tr>
<td>CFI</td>
<td>Carburetor Fuel Injected</td>
</tr>
<tr>
<td>Cont’d</td>
<td>Continued</td>
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<tr>
<td>Cyl</td>
<td>Cylinder</td>
</tr>
<tr>
<td>Dia</td>
<td>Diameter</td>
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<td>Dies</td>
<td>Diesel</td>
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<td>EFI</td>
<td>Electronic Fuel Injection</td>
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<td>Engine</td>
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<td>Except</td>
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<td>F</td>
<td>Fitting</td>
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<td>FFL</td>
<td>Female Flare</td>
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<tr>
<td>FI</td>
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<td>Female O-ring</td>
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<td>FRL</td>
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<tr>
<td>FSL</td>
<td>Female Spring Lock</td>
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<tr>
<td>FTO</td>
<td>Female Tube-O</td>
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<tr>
<td>FWD</td>
<td>Front Wheel Drive</td>
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<td>HO</td>
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<tr>
<td>HPCO</td>
<td>High Pressure Cut Off</td>
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<td>HPLS</td>
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<td>mm</td>
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<tr>
<td>MOR</td>
<td>Male O-ring</td>
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<td>MSL</td>
<td>Male Spring Lock</td>
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<td>MPT</td>
<td>Male Pipe Thread</td>
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<td>MT</td>
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<tr>
<td>NR</td>
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<tr>
<td>OD</td>
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<tr>
<td>OE</td>
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<td>RB</td>
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<td>Right Hand Drive</td>
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<td>STR</td>
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<tr>
<td>TC</td>
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<td>Trans</td>
<td>Transmission</td>
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<td>US</td>
<td>United States</td>
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<tr>
<td>Vin</td>
<td>Vehicle Identification Number</td>
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<tr>
<td>VIR Assy</td>
<td>Valves in Receiver</td>
</tr>
<tr>
<td>w</td>
<td>With</td>
</tr>
<tr>
<td>w/o</td>
<td>Without</td>
</tr>
<tr>
<td>2 WD</td>
<td>2-Wheel Drive</td>
</tr>
<tr>
<td>4 WD</td>
<td>4-Wheel Drive</td>
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Santech - MasterChem™ PAG Lubricants

Premium OEM Single End-Capped Oil
Santech packages OEM Grade PAG46, PAG100 and PAG150. All Viscosities are offred with and without U.V. Dye. PAG46 is equivalent to Delco 10-5040 and the PAG150 is equivalent to Delco 15-118. These are High Quality OEM Service PAG formulations. These Oils are for R134a only, OEM Service and Retrofit.

Ultra Double End-Capped Oil
Developed by OEM Oil Manufactures this Oil provides better Protection against Metal Wear and Moisture Absorption for Corrosion Protection. The Double End-Capped Technology absorbs the Moisture in the A/C System removing it from contact with Metal surfaces reducing Wear and Corrosion. This Lubricant is compatible with R12 and R134a Refrigerants. These are High Quality OEM PAG Oils.

MasterChem™ Enhanced Lubricant
This Lubricant was developed by leading Industry Chemist. This Proprietary Blended PAG Lubricant offers excellent Protection against Metal Wear and Moisture Absorption for Corrosion Protection. This Product is blended with our MasterChem™ Lubricant Enhancer which provides additional additives to reduce Metal Wear and clean the Condenser internally along with the rest of the System restoring the Thermal Efficiency of the A/C System. These Oils are for R134a only, OEM Service and Retrofit.

Santech - MasterChem™ PAG Lubricants

Aftermarket Base PAG Oils
Santech does not supply these type Oils. These Oils usually lack most of the additive packages required for Metal Wear protection and Moisture Absorption for the prevention of Corrosion. They are usually "Price Competitive" offerings in the Market being compared to the higher quality oils.

Overview
Lubricants are subjected to (2) basic test. The Falex Pin & Vee Ball Force lbs Failure (ASTM D3233A) and the 4 Ball Scar Value mm (ASTM D4172) Test. The chart below shows the Failure & Scar averages of Industry Lubricants. The Chart shows test results based on the quality and type of the Oil. Bottom line, the higher the Falex Failure and the lower the Scar the better the lubricant.

Modified Falex - Scar - Test - Average Results

<table>
<thead>
<tr>
<th>Falex V-Pin</th>
<th>Scar mm</th>
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</thead>
<tbody>
<tr>
<td>Base PAG</td>
<td>.60</td>
</tr>
<tr>
<td>Single End-Capped</td>
<td>.50</td>
</tr>
<tr>
<td>Double End-Capped</td>
<td>.40</td>
</tr>
<tr>
<td>Enhanced PAG</td>
<td>.30</td>
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<tr>
<td></td>
<td>.20</td>
</tr>
<tr>
<td></td>
<td>.10</td>
</tr>
</tbody>
</table>

= ASTM D3233A - Falex Pin V-Block
= ASTM D4172 - Scar x MM

CHEMICALS - FLUSH

MT3105
Notes: Masterchem Flush
1 Gallon
Case of 4

MT4050
Notes: Flush
Capture Bucket w/Lid

MT4051
Notes: Flush Cylinder Gun
Starter Kit
Capture Hose
Safety Glasses and Buckat

CHEMICALS - FRESH AIR

MT3109
Notes: Clean Air
Aerosol
3oz - Case of 12

MT3115
Notes: Deodorizer Fog
Aerosol 1.5 oz
Case of 12

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Finding A/C Leaks Fast

The MT7000 LOKTRACER™ was especially developed for trace gas leak detection in vehicle air-conditioning systems. The unit reacts exclusively to tracer gas, so that cross sensitivity to other gases can be almost completely excluded.

The extra-long and highly flexible measuring probe also allows to check components in the engine compartment which are difficult to access.

Eliminates the need to recover and recycle A/C refrigerant gases reducing equipment cost and expense of lost refrigerant. Tracer gas is Hydrogen/Nitrogen and can be released into the atmosphere.

Technical Data
Time until ready ..........................................................................................................<90 sec.
Response time ................................................................................................... 1 to 2 Second
Operating temperature .................................................................5° to 122° (-15° C to 50° C)
Storage temperature ..................................................................13° to 122° (-25° C to 50° C)
Operating period ...............................................................................8 hours w/ new batteries
Power supply .....................................................................................4 x AA mignon batteries
Dimensions ......................................................................19" x 1.75" x 1" (480 x 44 x 28 mm)
Weight .................................................................................5.65 oz. (160 g without batteries)
LOKTRACER™ Trace Gas Leak Detector System was especially developed for trace gas leak detection in vehicle air-conditioning systems.

**MT7000**
Trace Gas Leak Detector

- Rechargable Battery w/ Charger
- Earphone
- 8 Hours of Operation
- Sensitivity 0.03 oz. per year

**MT7001**
Regulator Kit

The unit reacts exclusively to tracer gas, so that cross sensitivity to other gases can be almost completely excluded. The extra-long and highly flexible measuring probe also allows checking components in the engine compartment which are difficult to access.

**Vehicle Hook-Up**

- Tank Coupler to Low Side
- 160 PSI Gauge Coupler to Hi-Side

**Cylinder Tank Hook-Up**

Hydrogen Mix = 95% Nitrogen
5% Hydrogen

**Testing Procedures**

- A/C System needs to be free of refrigerant before pressurization with tracer gas.
- Tank Valve - Off.
- Pressure adjusting screw - screwed out.
- Connect hi and low side couplers and open.
- Tank Valve - On.
- Turn pressure adjusting screw inward to reach 100-150 PSI.
- The 160PSI gauge can be removed and maximum pressure of 225PSI can be applied if leak not detected on initial check.
- Tank Valve - off, pressure adjusting screw - screwed out.

**Testing Tips**

- Hydrogen is lighter than air - check for leaks above connections.
- Evaporator leak check - after 10 minutes - check at defroster vents, dash outlets and floor vents.
- Remove couplers and check valve cores and service ports.
- Remove shop fans and any wind that can dissipate the hydrogen.
### Hose Cutters

**MT1033**
- Hose Cutter Heavy Duty
- Metal Body
- Qty: 1

**MT1040**
- Hose Cutter
- Economy Plastic Body
- Qty: 1

### Hose Clamps & Hose Clamp Repair Kit

**MT1590**
- #10 Toyota Hose Fitting Clamp
- OEM #: 88718-02170, 88718-2D150
- Qty: 1

**MT1591**
- #6 Toyota Hose Fitting Clamp
- OEM #: 88718-02160, 88718-2D140
- Qty: 1

### Hose Lubricant

**MT0941**
- Mineral O-ring Lube
- 4.5 oz
- Qty: 1

### Tubing Cutter & Bender Tools

**MT1686**
- Tube Bending Set
- Blow Mold Case
- Qty: 1

**MT1162**
- Tubing Cutter Ratcheting
- Type 1/8" - 7/8"
- Qty: 1

**MT1682**
- Tube Cutter
- 1/8" - 1/2"
- Qty: 1
### Tools - ATCO™ Model 3710 Hose Crimper Kit

**MT1419 Hose Crimper - 6 Segment Kit**

- High Quality Construction
- Portable - Versatile Mounting Configurations
- Tool Steel Drive Arbor Bolt for Air Impact Operation
- Produces OEM Quality Barrel Crimps
- Crimps #6, 8, 10 & 12 Crimping Shells
- Works on Standard Barb, Reduced Bead-Lock & Steel Bead-Lock Fittings

### ATCO™ Model 3710 Crimp Die Usage Guide

#### Die Set MT Part Number

<table>
<thead>
<tr>
<th>Die Marking</th>
<th>MT Part Number</th>
<th>Hose Size</th>
<th>Crimp Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT1740 Red</td>
<td>MT1740 Red</td>
<td>6-8A</td>
<td>5.8</td>
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<tr>
<td>MT1741 Black</td>
<td>MT1741 Black</td>
<td>6-8R</td>
<td>5.5</td>
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<tr>
<td>MT1742 Blue</td>
<td>MT1742 Blue</td>
<td>6-8S</td>
<td>5.0</td>
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<tr>
<td>MT1743 Almond</td>
<td>MT1743 Almond</td>
<td>10</td>
<td>7.2</td>
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<tr>
<td>MT1744 Green</td>
<td>MT1744 Green</td>
<td>10-12</td>
<td>8.97</td>
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<tr>
<td>MT1745 Clear</td>
<td>MT1745 Clear</td>
<td>12</td>
<td>10.15</td>
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#### To Crimp Hose Size(s)

<table>
<thead>
<tr>
<th>Hose Size</th>
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<tbody>
<tr>
<td>6 (5/16” ID) Reduced</td>
<td>5.8</td>
</tr>
<tr>
<td>6 (5/16” ID) 2-Barrier</td>
<td>5.5</td>
</tr>
<tr>
<td>8 (13/32” ID) 2-Barrier</td>
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</tr>
<tr>
<td>10 (1/2” ID) Reduced</td>
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<tr>
<td>10 (1/2” ID) 2-Barrier</td>
<td>8.97</td>
</tr>
<tr>
<td>12 (5/8” ID) Reduced</td>
<td>10.15</td>
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All hoses to size
## Crimper Dies

<table>
<thead>
<tr>
<th>Santech P/N</th>
<th>Description</th>
<th>Ref. #</th>
<th>Qty</th>
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<td>MT1740</td>
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<td>MT1741</td>
<td>Crimp Die #6 Barrier &amp; #8 Reduced</td>
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<tr>
<td>MT1742</td>
<td>Crimp Die #8 Barrier</td>
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<td>1</td>
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<td>MT1743</td>
<td>Crimp Die #10 Reduced</td>
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<td>1</td>
</tr>
<tr>
<td>MT1744</td>
<td>Crimp Die #10 Barrier &amp; #12 Reduced</td>
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<td>1</td>
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<td>MT1750</td>
<td>Die Carrier #6 Reduced</td>
<td>13</td>
<td>1</td>
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<tr>
<td>MT1751</td>
<td>Die Carrier #6 Barrier &amp; #8 Reduced</td>
<td>13</td>
<td>1</td>
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<tr>
<td>MT1752</td>
<td>Die Carrier #8 Barrier</td>
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<td>MT1753</td>
<td>Die Carrier #10 Reduced</td>
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<tr>
<td>41-13716</td>
<td>Die Carrier #12 Barrier &amp; 19mm Barrier</td>
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## Crimper Carrier

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<td>Crimp Die #8 Barrier</td>
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<td>41-13716</td>
<td>19mm Barrier</td>
<td>12</td>
<td>1</td>
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## Refrigerant Manifold Gauge Sets & Components

### MT0399
**R134a Aluminum Manifold Set**
*Features:*
- 72" Hose Set
- Manual Couplers
- Anti-Blowback for Service Line
- Protective Rubber Gauge Covers
- Clam Shell Pack
*Included in Set:*
  - MT0406 Low Side Coupling
  - MT0407 High Side Coupling
  - MT1032 Anti-Blowback Valve

### MT0417
**R12 Brass Manifold Set**
*Features:*
- 72" Hose Set
- High Quality Fittings w/ Standard Hoses
- Clam Shell Packaging

### MT1416
**R134a Brass Manifold Set**
*Features:*
- 72" Hose Set
- Manual Quick-Couplers
- Anti-Blowback for Service Line
- Protective Rubber Gauge Covers
- Clam Shell Packaging
*Included in Set:*
  - MT0406 Low Side Coupling
  - MT0407 High Side Coupling
  - MT1032 Anti-Blowback Valve

### MT1480
**R134a Aluminum Gauge Set - 4 Way**
*Features:*
- Aluminum 4 Way Manifold
- Rubber Protective Gauge Covers
- Hose Set: Red & Blue 72", Yellow 36" & 96"
- Manual Service Couplers
- Sight Glass
- Anti-Blowback for Service Line

### MT1760
**R1234yf Premium Gauge Set**
*Features:*
- Aluminum Manifold
- Rubber Protective Gauge Covers
- Hose Set - Red, Blue & Yellow 72"
- Manual Service Couplers
- Sight Glass
- Anti-Blowback for Service Line

### R134a 14mm Refrigerant Hoses

<table>
<thead>
<tr>
<th>HOSE LENGTH</th>
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<tr>
<td>36&quot;</td>
<td>MT0415</td>
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<td>72&quot;</td>
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### R12 1/4” SAE Refrigerant Hoses

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<td>MT0425</td>
<td>MT0426</td>
<td>MT0424</td>
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### R1234yf 12mm Refrigerant Hoses
**R1234yf 12mm Hose & Set**

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<th>YELLOW</th>
<th>HOSE REF</th>
<th>HOSE SET</th>
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<td>MT1763</td>
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<td>96&quot;</td>
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## Tools

### Gauge Components & Accessories

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<td>MT0401</td>
<td>Replacement R134a Gauge High Side</td>
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<tr>
<td>MT0418</td>
<td>Replacement R12 Gauge Low Side</td>
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</tr>
<tr>
<td>MT0419</td>
<td>Replacement R12 Gauge High Side</td>
<td>1</td>
</tr>
<tr>
<td>MT1296</td>
<td>Gauge Cover Set For 2.5&quot; High Side &amp; Low Side Gauges</td>
<td>1</td>
</tr>
<tr>
<td>MT1268</td>
<td>Replacement Lens For 2.5&quot; High &amp; Low Side Gauges</td>
<td>1</td>
</tr>
</tbody>
</table>

### Premium Couplers - R134a / R1234yf High Flow Service Couplers

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT1513</td>
<td>R134a High Side Service Coupling w/ 90 Degree-Extended Reach Extended Reach for BMW, Volvo &amp; other European Vehicles w/ Hi-Side Port through Radiator Core Support</td>
<td>1</td>
</tr>
</tbody>
</table>

### R12 Adapter Kits & Hose Adapters

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT1140</td>
<td>Adapter Fitting Kit</td>
<td>1</td>
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### Automatic Couplers

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>MT0441</td>
<td>High Side R134a O-Ring Repair Kit: MT2152</td>
<td>1</td>
</tr>
<tr>
<td>MT0440</td>
<td>Low Side R134a O-Ring Repair Kit: MT2152</td>
<td>1</td>
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<tr>
<td>MT0407</td>
<td>High Side R134a O-Ring Repair Kit: MT2152</td>
<td>1</td>
</tr>
<tr>
<td>MT0406</td>
<td>Low Side R134a O-Ring Repair Kit: MT2152</td>
<td>1</td>
</tr>
<tr>
<td>MT0408</td>
<td>High &amp; Low Side Set R134avv O-Ring Repair Kit: MT2151</td>
<td>1</td>
</tr>
<tr>
<td>MT2164</td>
<td>R12 to R134a Coupler Conversion Kit w/ Vacuum Pump Adapter</td>
<td>1</td>
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</table>

### Economy Couplers

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>MT0434</td>
<td>High &amp; Low Side 1/4&quot;MFL x 1/4&quot;FFL</td>
<td>1</td>
</tr>
<tr>
<td>MT0435</td>
<td>High Side 1/4&quot;MFL x 3/16&quot;FFL GM Large Valve Cores</td>
<td>1</td>
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<tr>
<td>MT0936</td>
<td>High Side 1/4&quot; MFL x 3/16&quot; FFL</td>
<td>1</td>
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<tr>
<td>MT0962</td>
<td>High Side 1/4&quot;MFL x 1/8&quot;FFL</td>
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### 90 Degree

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>MT0437</td>
<td>Auto Anti-Blow Back Low Side 1/4&quot;FFL x 1/4&quot;MFL</td>
<td>1</td>
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<tr>
<td>MT0438</td>
<td>Auto Anti-Blow Back High Side 1/4&quot;MFL x 3/16&quot;FFL</td>
<td>1</td>
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<tr>
<td>MT0961</td>
<td>One Piece Fixed 1/4&quot;MFL x 3/16&quot;FFL w/ Valve Core</td>
<td>1</td>
</tr>
<tr>
<td>MT0963</td>
<td>Swivel Type 1/4&quot;MFL x 3/16&quot;FFL</td>
<td>1</td>
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### Straight Adapters

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>MT0436</td>
<td>Deep Access 1/4&quot;MFL x 3/16&quot;FFL GM 1991 &amp; Later</td>
<td>1</td>
</tr>
<tr>
<td>MT0437</td>
<td>Auto Anti-Blow Back Low Side 1/4&quot;MFL x 1/4&quot;MFL</td>
<td>1</td>
</tr>
<tr>
<td>MT0961</td>
<td>One Piece Fixed 1/4&quot;MFL x 3/16&quot;FFL w/ Valve Core</td>
<td>1</td>
</tr>
<tr>
<td>Model</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>---------</td>
<td>-----------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>MT0431</td>
<td>1/4&quot; MFL x 14mm R12 Conversion to R134a O-Ring MTL0250 Qty: 1</td>
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<tr>
<td>MT0432</td>
<td>1/2&quot; FFL ACME x 1/4&quot; MFL Cylinder Adapter Gasket: MTL0722 Qty: 1</td>
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<tr>
<td>MT0433</td>
<td>1/4&quot; MFL x 1/2&quot; ACME MF Vacuum Pump Quick Disconnect w/ Valve Core Qty: 1</td>
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<tr>
<td>MT0948</td>
<td>1/2&quot; ACME MF x 13mm Quick Disconnect w/ Valve Core Qty: 1</td>
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<tr>
<td>MT1032</td>
<td>1/4&quot; FFL x M10-1.5 MFL Qty: 1</td>
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<tr>
<td>MT1143</td>
<td>1/4&quot; FFL x 1/8&quot; MPT w/ Valve Core Qty: 1</td>
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<tr>
<td>MT1146</td>
<td>1/2&quot; ACME MFL x 1/8&quot; MPT w/ Valve Core Qty: 1</td>
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<tr>
<td>MT1340</td>
<td>3/8-24&quot; MOR x 1/8&quot; MPT w/ Valve Core Qty: 1</td>
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<tr>
<td>MT1390</td>
<td>3/8-24&quot; MOR x 1/8&quot; MPT w/ Valve Core Qty: 1</td>
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<tr>
<td>MT1417</td>
<td>14mm Fem x 1/2 ACME Male Connects R134a Hoses together Qty: 1</td>
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<tr>
<td>MT1456</td>
<td>1/2&quot; ACME MF x 1/2&quot; ACME MF MFL Quick Disconnect Qty: 1</td>
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<tr>
<td>MT1457</td>
<td>1/4&quot; Male NPT x Quick Disconnect Qty: 1</td>
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<tr>
<td>MT1517</td>
<td>1/2&quot; ACME Male x 1/8&quot; MFL Qty: 1</td>
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<tr>
<td>MT1519</td>
<td>3/8-28-MOR x 7/16-20 Male Flare Qty: 1</td>
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<tr>
<td>MT1520</td>
<td>1/8&quot; Male NPT x 7/16-20 Male Flare Qty: 1</td>
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<tr>
<td>MT1522</td>
<td>1/8&quot; Male NPT x 1/2&quot; ACME MF w/ Valve Core Qty: 1</td>
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<tr>
<td>MT1593</td>
<td>1/2&quot; ACME Fem/1 Seal x M12 1.5 Fem/1 Seal Qty: 1</td>
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<tr>
<td>MT1617</td>
<td>1/2&quot; ACME Fem/1 Seal x 1/2&quot; ACME MF Left Hand Qty: 1</td>
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<tr>
<td>MT1790</td>
<td>1/2&quot; ACME Male x M12 1.5 Male/1 Seal Qty: 1</td>
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<tr>
<td>MT1792</td>
<td>3/8-24” MOR x 7/16-20 Male Flare Qty: 1</td>
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<tr>
<td>MT1793</td>
<td>1/2&quot; ACME Fem/1 Seal x M12 1.5 Fem/1 Seal Qty: 1</td>
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<tr>
<td>MT1794</td>
<td>1/2&quot; ACME Left Hand Female x 14mm R1234yf Qty: 1</td>
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<tr>
<td>MT1799</td>
<td>1/4&quot; Male NPT x 14mm R1234a 13mm Low Side O-Ring: MTL0927 Qty: 1</td>
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<tr>
<td>MT9672</td>
<td>1/2&quot; ACME Fem/1 Seal x M12 1.5 Fem/1 Seal Qty: 1</td>
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**MT9672 Adapter Kit**
- Qty: 24 Adapters
<table>
<thead>
<tr>
<th><strong>R134a Flex Hoses</strong></th>
<th><strong>R12 Flow Control Valves</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MT0976</strong> Flex Hose</td>
<td><strong>MT1152</strong> Manual Shut Off</td>
</tr>
<tr>
<td>1/2&quot; MFL x 1/2&quot; FFL x 6&quot; w/ Ball Shut-Off ACME</td>
<td>½&quot; ACME FFL x 1/2&quot; ACME MFL</td>
</tr>
<tr>
<td>Qty: 1</td>
<td>Qty: 1</td>
</tr>
<tr>
<td><strong>MT1150</strong> Flex Hose</td>
<td><strong>MT1151</strong> Manual Shut Off</td>
</tr>
<tr>
<td>1/4&quot; MFL x 1/2&quot; ACME FFL</td>
<td>1/4&quot; FFL x 1/4&quot; MFL</td>
</tr>
<tr>
<td>Qty: 1</td>
<td>Qty: 1</td>
</tr>
<tr>
<td><strong>MT1539</strong> Replacement Hose</td>
<td><strong>MT0398</strong> R134a Recharge Hose</td>
</tr>
<tr>
<td>6&quot; Flex Hose</td>
<td>Screw On Type</td>
</tr>
<tr>
<td>R134a ½&quot; Acme FFL x ½&quot; ACME FFL</td>
<td>Replacement Gasket MT0722</td>
</tr>
<tr>
<td>Qty: 1</td>
<td>Qty: 1</td>
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<table>
<thead>
<tr>
<th><strong>Dye &amp; Oil Injectors</strong></th>
<th><strong>Can Taps</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MT1067</strong> Oil - Dye Injector R134a</td>
<td><strong>MT0398</strong> R134a Recharge Hose</td>
</tr>
<tr>
<td>1/2&quot; ACME MFL x 1/2&quot; ACME FFL (2 oz.)</td>
<td>Screw On Type</td>
</tr>
<tr>
<td>Qty: 1</td>
<td>Replacement Gasket MT0722</td>
</tr>
</tbody>
</table>

| **MT4056** Oil-Dye Injector R12 | **MT1036** Refrigerant Can Tap |
| ¼" MFL x ¼" FFL (2 oz) | Side Can Slide On R12, R134a & 2 + 2 Oil Charge Cans |
| Qty: 1                   | Replacement |

| **MT4059** 2oz Oil Injector R1234yf | **MT1514** R134a Can Tap |
| Quick Disconnect Style       | California (CARB) Approved |
| Qty: 1                       | 14 oz Cans |

| **MT4060** Oil-Dye Injector R12, R134a R1234yf | **MT1528** Can Tap R12 |
| 1/2oz Hand Turn               | Locking Top Type |
| Qty: 1                        | Replacement Gasket MT0722 |
| **MT4061** Oil-Dye Injector R12, R134a R1234yf | **MT1756** R134a Can Tap |
| 2oz Hand Turn                 | Recharge Hose Valve Type w/ Gauge and Ball Valve |
| Qty: 1                        | Qty: 1 |

| **MT1758** R1234yf Can Tap | **MT1784** R134a Can Tap |
| Recharge Hose with Gauge    | Adapter pierce to depressing |
| 24" Length                  | Qty: 1 |

| **MT4063** R1234YF Can Tap | **MT1749** R134a Recharge Hose |
| Flat Pin                    | Valve Type |
| Qty: 1                      | For R134a Cans with Ball Valve |

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## Repair Kits for Hoses & Couplers

### MT1050
**O-Ring and Depressor Kit**
*R12 / R134a Charging Hose & Accessories*

**Features:**
- Side Can & Screw-On Can Tap Gaskets
- R12 & R134a Hose Gaskets and O-Rings
- R12 Adapters Seals & O-Rings
- R134a Coupler Seals and O-Rings
- R12 Hose & Adapter Depressors
- R12 & R134a Anti-Blowback Valve Seals

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>MT0250</td>
<td>R134a Quick Coupler Low Side O-Ring</td>
<td>20</td>
</tr>
<tr>
<td>MT0254</td>
<td>R134a Quick Coupler Low Side O-Ring</td>
<td>20</td>
</tr>
</tbody>
</table>

### MT0971
**R12 Hose Depressor Kit**
2 Gaskets, 2 Depressors 1/4”
Qty: 1 Kit

### MT1078
**Replacement Gaskets & O-Rings**
R12 Charging Hose for Anti-Blowback
MT1290-MT1295 Hoses
Qty: 1 Kit

### MT2172
**Replacement Gaskets**
R134a Charging Hose Repairs MT0420 thru MT0430 & MT0443 Hoses
Qty: 1 Kit

### MT2173
**Replacement Gaskets & O-Rings**
R134a Charging Hose Repairs MT0402-MT0416 Hoses
Qty: 1 Kit

### MT0972
**R12 Hose & Adapter Repair Components**

### MT1066
**R134a Repair Kit for Service Couplers**
w/ O-Rings & Nylon Guide Washers for MT0406, MT0407 & MT0408 Kit Couplers
Qty: 1 Kit

### MT1067
**R134a Repair Kit**
Used for MT0440 & MT0441 Couplers
Qty: 1 Kit

### MT0187
**R134a Manual High Side O-Ring**
Qty: 20

### MT0249
**R134a Manual Low Side O-Ring**
Qty: 20

### MT0250
**R134a 14mm Hose O-Ring**
Qty: 20

### MT0254
**R134a Quick Coupler Low Side O-Ring**
Qty: 20

### MT0274
**R134a Quick Coupler High Side O-Ring**
Qty: 20

### MT0057
**Can Tap Gasket R12**
Qty: 20

### MT0722
**Can Tap Gasket R134a**
MT0398, MT0442 & MT1414
Qty: 10

### MT1057
**Charging Hose Gasket**
All 1/4”/7/16” Fittings
Qty: 10

### MT1058
**O-Ring Seal R12 1/8” Adapters**
Qty: 10

### MT0688
**Black O-Ring R134a Recharging Hose**
Qty: 10

### MT1054
**Low Side Couplers R134a Nylon Guide**
Qty: 10

### MT1055
**High Side Couplers R134a Nylon Guide**
Qty: 10

### MT0448
**R12 Valve Core Depressor - 1/4”**
Qty: 10

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Compressor Clutch Service Tool Sets

**MT1120**
Compressor Clutch Tool Set  
*Chrysler, Denso, Ford, GM, Sanden, DKS, Zexel*

Kit Contains:
(1) (3) Eye Round Clutch Plate Arbor  
Sanden, DKS, Zexel  
(1) Sanden Arbor Drive Bolt  
(3) 1/4" - 20 Hex Screws w/Washers  
(1) Diesel Kiki, Zexel Arbor Drive Bolt  
(1) Chrysler, Denso, Ford Standard/Metric Arbor  
(1) Chrysler, Denso, Ford Remover Arbor  
(1) Chrysler, Denso, Ford Installer Arbor  
(1) GM Standard Clutch Plate Remover Arbor  
(1) GM Standard Arbor Remover Drive Bolt  
(1) GM Standard Arbor Installer Drive Bolt  
(1) GM Metric Clutch Plate Remover Arbor  
(1) GM Metric Arbor Remover Drive Bolt  
(1) GM Metric Arbor Installer Drive Bolt  
(1) GM 9mm Hub Installer  
(1) Arbor Installer Bearings

**MT1121**
Compressor Clutch Tool Set  
*Chrysler, Denso, Ford, GM, Sanden, DKS, Zexel*

Kit Contains:
(1) (3) Eye Round Clutch Plate Arbor  
Sanden, DKS, Zexel  
(1) Sanden Arbor Drive Bolt  
(1) DKS, Zexel Arbor Drive Bolt  
(1) Universal Clutch Spanner Wrench  
(1) Chrysler, Denso, Ford Standard/Metric Clutch Plate Arbor  
(1) Chrysler, Denso, Ford Arbor Drive Bolt  
(1) GM Standard Thread Clutch Hub Arbor Remover Installer  
(1) GM Metric Thread Clutch Hub Arbor Remover/Installer  
(1) Arbor Installer Bearings

**MT1126**
Compressor Clutch Tool Set Universal  
*Multi Puller w/ Arbor*

Kit Contains:
(1) Multi Position Steel Cast Arbor  
(1) Arbor Drive Bolt  
(2) 5' Puller Jaws  
(2) 3' Puller Jaws  
(1) Cross Draw Stabilizer Yoke

**MT1403**
Compressor Clutch Tool Set  
*Chrysler, Denso, Ford, GM, Sanden, DKS, Zexel*

Kit Contains:
(1) (3) Eye Round Clutch Plate Arbor  
Sanden, DKS, Zexel  
(3) 1/4" - 20 Hex Screws  
(2) 3/8" - 16 Hex Screws  
(3) 5mm - .8 Hex Screws  
(1) GM Standard Thread Hub Remover/Installer  
(1) GM Metric Thread Hub Remover/Installer  
(1) Chrysler, Denso, Ford Coarse Thread Hub Remover  
(1) Chrysler, Denso, Ford Fine Thread Hub Remover  
(1) DKS Hub Puller  
(1) Zexel Hub Puller  
(1) Arbor Installer Bearings

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## Compressor Clutch Service Tool Sets

**MT1116**
Compressor Clutch Plate Remover Mitsubishi, Sanden, DKS, Zexel
Kit Contains:
- (1) (3) Eye Round Clutch Plate Arbor Sanden, DKS, Zexel
- (1) Drive Arbor Bolt
- (3) 1/4"-20 Bolts
- (3) 8mm-1.0 Bolts
- (2) 10mm-1.5 Bolts

**MT1137**
Clutch Rotor Puller Tool Set
GM Compressor Standard R4
Kit Contains:
- (1) Adjustable Aluminum Arbor
- (1) Drive Arbor Bolt (2) Puller Jaws
- (1) Shaft Protector (.126 Deep Shoulder)
- (1) Shaft Protector (.25 Deep Shoulder)

**MT1128**
Clutch Pulley Puller Tool Set
GM Compressor LT R4/H6/V5
Kit Contains:
- (1) Adjustable Aluminum Arbor
- (1) Arbor Drive Bolt
- (2) Wide Pulley Jaws
- (1) Shaft Protector

## Compressor Clutch Service Tools

**MT0363**
Harrison Shaft Protector Pilot
- .126 Deep Shoulder GM
Used with MT1127 Puller Kit to protect Compressor shaft during pulley removal. Works with double row pulley bearings.
Qty: 1

**MT0595**
Nippondenso Clutch Hub Remover
Arbor is double threaded for Metric & Standard Thread Hubs.
Qty: 1

**MT0592**
Internal Snap Ring Pliers
Qty: 1

**MT0593**
External Snap Ring Pliers
Qty: 1

**MT0594**
Universal Clutch Holder Wrench
Qty: 1

**MT1115**
Compressor Clutch Plate Installer / Remover
GM Hubs
Arbor is Metric Threads. End of drive bolt threads out for 9mm GM shaft threads for Hub installer.
Qty: 1

**MT1129**
Mini Snap Ring Plier Set

**MT1174**
Compressor Clutch Plate Installer/Remover Hub
Standard Thread GM
Arbor is Standard Threads. End of drive bolt threads out for 3/8"-20 GM shaft threads for Hub installer.
Qty: 1

## Shaft Seal Tool Sets

**MT1124**
Master Shaft Seal Service Tool Set
- Services these Compressor Groups:
  - **GM:** A6, Std R4, LT R4, DA6 Carbon, HR6 & V5
  - **Ford:** F56, Chrysler A590, C171, 6C17, Denso 6P & 10P Series
  - **Sanden:** SD507, SD508, SD510
  - **York:** 206, 209, 210
  - **Techumseh:** HG500, HG1000
  - **Chrysler:** RV2

**MT1130**
Shaft Seal Tool Kit
Set of Seal Remover / Installers
Kit Contains (4) Individual Tools
- (1) Denso 10P Series
- (1) Sanden SD708, SD709 Series
- (1) Sanden SD505, SD507 Mini Series
- (1) Sanden SD507, SD508, SD510 Series
Shaft Seal Tool Sets

**MT1131** Shaft Seal Tool Kit Denso 10PA
- Kit Contains:
  - (1) Shaft Seal Remover
  - (1) Shaft Seal Installer
  - (1) Shaft Seal Protector
  - (1) Internal Snap Ring Remover

**MT1132** Shaft Seal Tool Kit Diesel Kiki
- Kit Contains:
  - (1) Drive Plate Installer
  - (1) Drive Plate Remover
  - (1) Snap Ring Installer
  - (1) Pulley Puller Pilot
  - (1) Shaft Seal Remover / Installer
  - (1) Shaft Seal Seat Remover / Installer

**MT1136** Shaft Seal Tool Kit GM DA6 with Carbon Seal
- Kit Contains:
  - (1) Seal Remover / Installer
  - (1) Shaft Seal Protector
  - (1) Clutch Plate Remover (Metric)
  - (1) Clutch Plate Installer (Metric)
  - (1) O-Ring & Snap Ring Installer
  - (1) O-Ring Installer Guide

**MT1137** Shaft Seal Tool Kit Hitachi, Mitsubishi Compressors
- Kit Contains:
  - (1) Nut Remover / Installer
  - (1) Shaft Seal Remover Lock Nut
  - (1) Seal Seat Remover Mitsubishi
  - (1) Bearing & Pulley Installer-Mitsubishi
  - (1) Shaft Seal Remover / Installer-Mitsubishi
  - (1) Spanner Plug Remover / Installer-Hitachi

**MT1138** Shaft Seal Tool Kit Sanden SD505, 575
- Kit Contains:
  - (1) Seal Remover / Installer
  - (1) Seal Seat Remover (505 only)
  - (1) Bearing & Pulley Installer (505 only)
  - (1) Shaft Seal Protector (505 only)
  - (1) Pulley & Clutch Remover Jaws
  - (1) Shaft Protector Pilot

**MT1139** Shaft Seal Tool Kit Sanden SD507, 508, 510
- Kit Contains:
  - (1) Clutch Plate Puller
  - (1) Shaft Seal Remover / Installer
  - (1) Shaft Seal Protector
  - (1) Clutch Plate Installer

Shaft Seal Tools

**MT0952** Ceramic/Steel Shaft Seal Seat Remover / Installer GM A6/R4/DA6
- Qty: 1

**MT4052** Shaft Seal Installer / Remover Sanden SD508, Seiko Seiki SP10, Sanden SD7H, Zexel
- Qty: 1

Shaft Seal Protectors

**MT4057** Adjustable Lip Seal Protectors Kit (Set of 6)

**MT1396** Shaft Seal Protector 21 Spline I.D. .513 O.D..557 Ford FX15/FS10
- Qty: 1

**MT4024** Shaft Seal Protector GM A6/R4 DA6 (Late)/V5
- Qty: 1

**MT4026** Shaft Seal Protector Sanden SD508, SD510
- Qty: 1
### Spring Lock Tools

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
<th>Notes</th>
</tr>
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<tr>
<td>MT0396</td>
<td>Master Tech Spring Lock Tool Set - 4 Piece Kit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MT1387</td>
<td>Master Tech Spring Lock Tool Set - 6 Piece Kit</td>
<td></td>
<td>Premium Aluminum Handle Type</td>
</tr>
<tr>
<td>MT1415</td>
<td>Spring Lock Tool Set - 9 Piece Kit</td>
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</tr>
</tbody>
</table>

### Spring Lock Coupling Tool Disassembles

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT0152</td>
<td>#6 (3/8”) Spring Lock Tool Set</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>MT0153</td>
<td>#8 (1/2”) Spring Lock Tool Set</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>MT0154</td>
<td>#10 (5/8”) Spring Lock Tool Set</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>MT0155</td>
<td>#12 (3/4”) Spring Lock Tool Set</td>
<td>1</td>
<td></td>
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<tr>
<td>MT0349</td>
<td>Toyota Spring Lock Release Tool</td>
<td>1</td>
<td></td>
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</tbody>
</table>

### Brass Brushes for Spring Lock Couplings

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT0170</td>
<td>Brass Brush for #8 Spring Lock Coupling 9/16”</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>MT0171</td>
<td>Brass Brush for #10 Spring Lock Coupling 11/16”</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>MT0172</td>
<td>Brass Brush for #12 Spring Lock Coupling 7/8”</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

### Thread Chasers

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT1404</td>
<td>Thread Chasers Set - SAE - (5 Sizes)</td>
<td>5/8” - 18 UNF, 3/4” - 16 UNF, 7/8” - 14 UNF, 1” - 14 UNF, 1-1/4” - 14 UNF, 1/4” x 4-1/2” Repairs Inside &amp; Outside Threads</td>
</tr>
<tr>
<td>MT1405</td>
<td>Thread Chasers Set - METRIC - (8 Sizes)</td>
<td>M14-1.5P, M16-1.5P, M18-1.5P, M20-1.5P, M22-1.5P, M24-1.5P, M27-2P, M28-1.5P, Tee Bar - .8mm x 81mm, Repairs Inside &amp; Outside Threads</td>
</tr>
<tr>
<td>MT0168</td>
<td>Allen Wrench Small (5/32”)</td>
<td>Qty. 2</td>
</tr>
</tbody>
</table>
### Electronic Scales

**MT1402**
**Electronic Scale Heavy Duty**
- Die Cast Aluminum Refrigerant Scale
- Extra Large LCD Display for lbs / oz. / kg
- Accurate to +/- 1/2oz
- Bubble Key Pad
- 9” x 9” Platform
- 175 lb (80 kg) Capacity
- 15 Minute Auto Shut-off
- W/ABS Carrying Case & 9 volt Battery

**MT1720**
**Electronic Scale Programmable**
- Features: Programmable / Automatic Shut-Off
- Heavy Duty Die Cast Aluminum Refrigerant Scale 9” x 9” Platform
- 175 lb (80 kg) Capacity
- Accurate to +/- 0.5%
- Bubble Key Pad w/ Refrigerant Flow Meter
- 1/4” Female Flare x 1/2” ACME Male Adapters
- Extra Large LCD Display for lbs/oz./kg
- ABS Carrying Case & 5 Batteries included

### Refrigerant Recovery

**MT0433**
**Adapter**
- 1/4" FF x 1/2" ACME MFL
- For Vacuum Pump
- Gasket: MT0722
- Qty: 1

**MT1799**
**Adapter**
- R1234YF Vacuum Pump Adapter
- 1/4FF x 1/2 Acme LH Thread
- Qty: 1

**MT1412**
**Heater Blanket**
- 110 Volts
- For use W/ Refrigerant Cylinders
- Qty: 1

**MT1727**
**Replacement Drier Filter**
- 1/4” x 1/4” Replacement Filter
- Recovery Machine
- Qty: 1

### Temperature Testing

**MT0439**
**Thermometer**
- 1” Dial 0-220F
- -5c-105c
- Qty: 1

**MT0878**
**Thermometer**
- 1-3/4” Dial
- -10-110C/0-220F
- Qty: 1

**MT1338**
**Thermometer Electronic**
- Qty: 1

**MT1413**
**Digital Pocket Thermometer**
- Round 1-1/4” Dia. Pocket Clip
- -58 to 302 degrees
- -50 to 150 celsius
- Data Hold
- Auto Power Off
- Qty: 1

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## Recovery Tool Replacement

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT1412</td>
<td>Heater Blanket</td>
<td>For use with Refrigerant Cylinders</td>
</tr>
<tr>
<td></td>
<td></td>
<td>110 Volts</td>
</tr>
<tr>
<td>MT1729</td>
<td>30 LB. R134a Tank</td>
<td>DOT Approved</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Refrigerant Recovery</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1/2” Acme Fittings</td>
</tr>
<tr>
<td>MT1723</td>
<td>30 LB. CE</td>
<td>1/4” SAE Fitting</td>
</tr>
<tr>
<td>MT1729</td>
<td>30 LB. R134a Tank</td>
<td>DOT Approved</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Refrigerant Recovery</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1/2” Acme Fittings</td>
</tr>
<tr>
<td>MT1380</td>
<td>Halogen Leak Detector</td>
<td>Premium w/ case</td>
</tr>
<tr>
<td>MT0399</td>
<td>R134a Aluminum</td>
<td>w/72” Hoses</td>
</tr>
<tr>
<td>MT1416</td>
<td>R134a Brass</td>
<td>w/72” Hoses</td>
</tr>
<tr>
<td>MT0424</td>
<td>Hose Set - 96” R12</td>
<td>1/4” SAE R/B/Y</td>
</tr>
<tr>
<td>MT0427</td>
<td>Hose Set - 36” R12</td>
<td>1/4” SAE R/B/Y</td>
</tr>
<tr>
<td>MT0406</td>
<td>(Blue) R12</td>
<td>R134a Low Side Service Coupling</td>
</tr>
<tr>
<td>MT0407</td>
<td>(Red) R12</td>
<td>R134a High Side Service Coupling</td>
</tr>
</tbody>
</table>

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### Specialty Tools

**MT1430**  
**Gasket Installer**  
*Used to install Chrysler Metal Gaskets Kits MT0921, MT0922, MT1342, MT1000, MT1001, MT1002, MT1038*  
Qty. 1

**MT1546**  
**Switch Puller**  
*Used on GM & Chrysler Denso Compressor Switches*  
Qty. 1

**MT1627**  
**Switch Puller**  
*Used on GM Round Compressor Switches*  
Qty. 1

### A/C Line Tools

**MT1030**  
**Fin Comb**  
Qty. 1

**MT0879**  
**O-Ring Pick Set**  
*4 Piece Kit*  
Qty. 1

**MT1160**  
**O-Ring Pick**  
*Nylon with Santech Logo*  
Qty. 1

**MT1406**  
**O-Ring Pick**  
*Nylon with Santech Logo*  
Qty. 1

**MT1526**  
**A/C Service Wrench**  
*4 Sizes - 3/16", 1/4", 5/16", 3/8" Sockets*  
Qty. 1

### Hose Cutters

**MT1033**  
**Hose Cutter Heavy Duty**  
*Metal Body*  
Qty. 1

**MT1034**  
**Master Cool™ Version**  
*Blade Length 3-1/4"*  
Qty. 1

**MT1088**  
**Santech™ Version**  
*Blade Length 3-3/4" (Rear Hole Inset 1.90mm)*  
Qty. 1

**MT1089**  
**Santech™ Version**  
*Blade Length 3-3/4" (Rear Hole on Edge of Blade)*  
Qty. 1

### Tape - Tie Wraps

**MT0196**  
*20 Pk 7" Tie Wrap*  
Qty. 20

**MT0173**  
*20 Pk 11" Tie Wrap*  
Qty. 1

**MT0208**  
*20 Pk 14" Tie Wrap*  
*Black Ozone & Refrigerant Resistant*  
Qty. 1

**MT0890**  
**Permagum**  
*3/4" wide x 1/8" thick x 30 ft. roll*  
Qty. 1 - Roll

**MT0450**  
**Prestita Tape - Cork Tape**  
*2" wide x 1/8" thick x 30 ft. roll*  
Qty. 1 - Roll

**MT1600**  
**Foam Tape - EPDM**  
*(Closed Cell) Foam One-Side Adhesive*  
*2" wide x 1/8" thick x 25' roll*  
Qty. 1 - Roll
MT1470 Valve Core Tool Kit
The Ultimate Valve Core Removal & Installation Tool Kit
Includes:
Torque Screwdriver - 0 to 5 NM & (1) Adapter - 1/4” x Bit Driver
MT1460(6) Bits - Precision Tool Steel
MT1468(1) 90 Degree Angle Adapter - 1/4” Drive
MT1165(1) Valve Core Repair Tool

MT1460 Valve Core Bit Driver Kit (Packaged in a separate 6 box compartment case)

This Kit consists of one each:

<table>
<thead>
<tr>
<th>P/N</th>
<th>Description</th>
<th>Torque Setting</th>
<th>Tool Features:</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT1462</td>
<td>Standard Bit Driver</td>
<td>0.5 NM</td>
<td>• Accurate Fit To Valve Core</td>
</tr>
<tr>
<td>MT1463</td>
<td>Euro/Peugeot Bit Driver</td>
<td>2.1 NM</td>
<td>• Torque Specifications</td>
</tr>
<tr>
<td>MT1464</td>
<td>M8 Bit Driver</td>
<td>2.1 NM</td>
<td>• Precision Tool Steel</td>
</tr>
<tr>
<td>MT1465</td>
<td>M10 Bit Driver</td>
<td>2.8 NM</td>
<td>• Installation &amp; Removal</td>
</tr>
<tr>
<td>MT1466</td>
<td>JRA Bit Driver</td>
<td>1.0 NM</td>
<td>• Standard 1/4” Hex Bit End</td>
</tr>
<tr>
<td>MT1467</td>
<td>GM Large Bore Bit Driver</td>
<td>0.8 NM</td>
<td>• Includes Carrying Case</td>
</tr>
</tbody>
</table>

Note: Kit P/N MT1461 (same as MT1460 W/ Valve Cores included).

MT1625 Valve Core Bit Driver Set W/ Palm & Handle Ratchet

Plastic Box Kit Contains:
MT1462 Standard Bit Driver
MT1463 Euro/Peugeot Bit Driver
MT1464 M8 Bit Driver
MT1465 M10 Bit Driver
MT1466 JRA Bit Driver

MT1467 GM Large Bore Bit Driver
MT1545 Palm Ratchet for Bits
MT1612 Handle Ratchet for Bits
MT1406 Santech O-Ring Pick
MT0035 Hyundai / Kia JRA Valve Core
MT0050 M8 Valve Core
MT0058 GM Large Bore Valve Core
MT0059 JRA Valve Core
MT0064 Standard Press. R12 & R134a Valve Core
MT0065 M10 Valve Core
MT0301 Volvo / Peugeot Valve Core
MT1544 Large Bore - European Cars Valve Core

MT1545 Palm Ratchet for Bits
1/4” Drive x Bit Socket
Qty: 1

MT1612 Handle Ratchet for Bits
1/4” Drive
Qty: 1

MT1468 90 Degree Angle Adapter
1/4” Drive
Qty: 1
### Valve Core Tool Kit

**MT1175 Valve Core Remover / Installer Master Kit R12/R134a**
Kit allows Removal & Installation of Valve Cores without removing Refrigerant.

**Kit Contains:**
- (1) R12 - 1/4" Adapter
- (1) R12 - 3/16" Adapter
- (1) R12 - 1/8" Adapter
- (1) R134a 13mm Quick Disconnect
- (1) R134a 16mm Quick Disconnect
- (1) Master Shut off Valve
- (1) Standard Valve Core Control Stem
- (1) GM Large Bore Core Control Stem
- (1) JRA Valve Core Control Stem
- (1) 8mm Valve Core Control Stem
- (1) 10mm Valve Core Control Stem

Includes Carrying Case

### Orifice Tube & Valve Core Tools

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>MT1035</td>
<td>Valve Core Tool M8, M10, JRA, Standard Valve Cores GM Large Bore</td>
<td>1</td>
</tr>
<tr>
<td>MT1165</td>
<td>Valve Core Repair Tool 4 in 1</td>
<td>1</td>
</tr>
<tr>
<td>MT1172</td>
<td>Valve Core Tool 5-1/4&quot; x 1-1/4&quot; JRA, Standard Valve Cores GM Large Bore</td>
<td>1</td>
</tr>
<tr>
<td>MT0156</td>
<td>Service Tool Double Ended Socket for Octagon Fittings on Primary Seals</td>
<td>1</td>
</tr>
<tr>
<td>MT0323</td>
<td>Service Port Thread Repair Tool 3/8&quot; Socket Drive</td>
<td>1</td>
</tr>
<tr>
<td>MT1168</td>
<td>R1234yf High Side Primary Seal Socket</td>
<td>1</td>
</tr>
<tr>
<td>MT1168</td>
<td>R134a Service Port Reamer Resurface Face of Service Port</td>
<td>1</td>
</tr>
<tr>
<td>MT0597</td>
<td>Orifice Tube Extractor for Broken Tubes</td>
<td>1</td>
</tr>
<tr>
<td>MT0596</td>
<td>Orifice Tube Remover / Installer w/ Evaporator Puller Tip</td>
<td>1</td>
</tr>
</tbody>
</table>

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MT1501 A/C Sealant Quick Detection Kit

Includes:
- A/C Coupler
- Flow Meter
- (10) Test Cartridges
- Carrying Case
- Test Hose
- Syringe
- R12 & R134a Couplers
- Instruction Manual

The MT1501 A/C Sealant Detection Kit unit draws a refrigerant sample from the A/C System. If sealant is present, it will quickly solidify in the disposable test cartridge & cause the Flow Meter to read "no flow".

- Quickly verifies if sealant is present in A/C system
- Prevents possible damage to valuable recovery equipment
- Works on R134a & R12 systems
- Disposable, low cost design

Leak Test Equipment

MT1380 Automatic Halogen Leak Detector Kit
Pump Style
Detects CFC: R12, R11, R500, R503, etc.
HCFC: R22, R123, R124, R502, etc.
HFC: R134a, R404a, R125, etc.
BLENDS: AZ-50, HP62, MP39, etc.
Microprocessor Control, Sensitivity of 7 levels, Self Battery Test Function, Keypad Controls, 14" Flexible Probe Sensitivity Rate: Certified @ 0.1 oz (3 grams) per year Sensing Tip Life: 20 Hours Includes: Carrying Case, Batteries, Replacement Tips & Protectors Replacement Tips: MT1680

MT1734 Hydrogen Leak Detector
Features:
R12, R134a, 1234yf
Qty: 1

MT7001 Regulator Kit for MT7000 Hydrogen Leak Detector
Features:
Regulator & Hose w/ Couplers
Designed to install Nitrogen/Hydrogen @ 95%/5% ratio for closed System Testing Regulator to Tank Fitting - CGA 350 Qty: 1

MT7002 Nitrogen Regulator for LOCKTRACER® Leak Detector
400 psi Max Pressure
CGA 350 Inlet
Qty: 1

MT1028 Vacuum Pump - Air Operated
R12 & R134a Compatible Operates on Shop Air No Moving Parts or Oil Required Vacuum Reaches 29.5" Shipping Weight 2 lbs. Qty: 1
**Vacuum Pumps**

**MT1401**
Vacuum Pump - Electric
R12/R134a Compatible
Turbo Driven - 2.5 CFM
Direct Drive - 110 Volt
Pulls to 50 Microns
Built-in Overload Protector
Capacitor Start
Shipping Weight 28 lbs
Order Vacuum Pump Oil Quart MT3034,
Qty: 1

**MT1721**
Vacuum Pump - Electric
R12/R134a Compatible
Turbo Driven - 5 CFM
Direct Drive - 110 Volt
Built-in Overload Protector
Capacitor Start
Qty: 1

**MT1722**
Vacuum Pump - Electric
R12/R134a Compatible
Turbo Driven - 7.2 CFM
Direct Drive - 110 Volt
Built-in Overload Protector
Capacitor Start
Qty: 1

**MT3034**
Vacuum Pump Oil
Quart Size Bottles
Qty: Case of 12

**Temperature Testing**

**MT3710**
Thermometer Dual Channel J/K Type
Temperature Testing Kit w/ Direct Contact Clamps
Features:
- Rubber Cover to protect unit
- Dual Display on Single Screen
- Auto Power off after 15 Minutes
- Direct Contact Clamp Probes
- Scissors Pliers
- Tool Storage Box & Instruction Manual
Functions:
- Max, Min, Average
- Hold, Release & Offset (T1-T2) Temperatures
- Battery Type: 9 Volt
- Probe Range: K Type: -200°C - 1370°C (-328°F - 2498°F)
- Probe Range: J Type: -200°C - 1050°C (-328°F - 1922°F)
- Accurate: 0.01%

**MT3720**
Temperature Testing Kit w/ Direct Contact Probes
Features:
- Temperature Unit w/ Dual Display on Single Screen w/ Protective Rubber Cover
- Battery Type: 9 Volt
- Probes - Direct Contact, Fin Type & Plate Contact
- Probe - Direct Contact - Clamp-on
- Probe - Air/Gas Sensor
- Probe - Direct Contact or Open Sensor
- Probe Tool - Scissor Actuator for Red Contact
- Probe for Clamp operation in remote locations
- Tool Storage Box & Instruction Manual

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## Temperature Testing

### MT3730
**Thermometer Kit - Dual Channel**
- **Features:**
  - Flexible Direct Contact Thermocouples
  - Provides accurate temperature differences after any AC Repair
  - Detailed temperature and diagnostic chart included
  - Battery Operated
  - Digital Display
  - Reads °F and °C
  - Small packaging less than 2” thick

### MT3711
**Testing Probe - Fin Type**
- **Features:**
  - Probe/Handle Length: 11”
  - Cord Length: 24” Unextended
  - Temp Range: -58°F - 1292°F
    (-50°C - 700°C)
  - Accuracy: 0.75%
- **Qty:** 1

### MT3712
**Testing Probe - Contact Type**
- **Features:**
  - Probe/Handle Length: 11”
  - Cord Length: 24” Unextended
  - Temp Range: -58°F - 1292°F
    (-50°C - 700°C)
  - Accuracy: 0.75%
- **Qty:** 1

### MT3713
**Testing Probe - Air/Gas Type**
- **Features:**
  - Probe/Handle Length: 6”
  - Cord Length: 24” Unextended
  - Temp Range: -58°F - 752°F
    (-50°C - 400°C)
  - Accuracy: 0.75%
- **Qty:** 1

### MT3714
**Testing Probe - Clamp Type**
- **Features:**
  - Probe - Clamp on Type
  - Cord Length: 20” Unextended
  - Temp Range: -58°F - 1292°F
    (-50°C - 700°C)
  - Accuracy: 0.75%
- **Qty:** 1

### MT3715
**Scissor Pliers for Temperature Probe Clamp**
- **Features:**
  - Length: 12” Reach for placing Probe Clamp in hard to reach locations.
  - Releases from Probe reducing possible contact of heated or moving components
- **Qty:** 1

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MT3750 External Control Valve Tester

The MT3750 external control valve tester is simple to connect to & operate on these types of compressors.

- Complete compressor operation analysis in 3 easy steps:
  - Check control solenoid
  - Check input signal from A/C control unit to solenoid
  - Issue variable commands to solenoid to drive compressor

- Vehicle specific & universal connections
- Battery operated - Digital display
- Affordable - Accurate
- Increase or decrease compressor demand by simply using the arrow functions

MT3730 Temperature Tester

Temperature diagnostics takes the guess work out of A/C repair. “Do the job right the first time” with accurate A/C temperature readings from Santech’s Temperature Tester!

- Flexible direct contact thermocouples for fast and accurate temperature readings even in the hard to reach areas.
- Identify:
  - Internal restrictions on condenser
  - Poor air flow across the condenser
  - Evaporator flooding levels on orifice tube system
  - Expansion valve performance
  - Receiver Drier refrigerant flow

- Verify:
  - Provides accurate temperature differences after any A/C repair. Detailed temperature and diagnostic chart included. Battery operated - Digital display - Reads Fahrenheit and Celsius

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Main: 972.812.7000 • Fax 972.314.9567 • Toll Free Phone: 888.286.6342
www.omega-usa.com
R1234yf A/C SERVICE TOOLS

**MT1734**
HALOGEN LEAK DETECTOR
for R12, R134a, R1234yf
Storage case and batteries included

**MT1760**
PREMIUM R1234yf GAUGE SET
Rubber Gauge Covers and 72" hoses included

**MT1794**
TANK ADAPTER
for R1234yf

**MT1799**
VACUUM PUMP ADAPTER
for R1234yf

**MT4060**
OIL INJECTOR KIT
HAND TURN STYLE
1/2 oz. for R12, R134a, R1234yf

**MT4059**
QUICK DISCONNECT STYLE
OIL INJECTOR
2 oz. for R1234yf

**MT4061**
OIL INJECTOR KIT
HAND TURN STYLE
2 oz. for R12, R134a, R1234yf

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