



## Mobile Air Conditioning Components Catalog

- 2007 -



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# Mobile Air Conditioning Components

## **TERMS & CONDITIONS OF SALE**

Payment Terms: Net 30 days (unless by prior agreement)

Freight: F.O.B. shipping point

Minimum Order: \$25.00

Minimum Line Order: \$10.00

Summit Industries, Inc. reserves the right to evaluate a potential customer's credit-worthiness prior to making its products available.

## **WARRANTY STATEMENT**

Summit Industries, Inc. warrants its products to be free from defects in material and workmanship under normal use for a period of thirty (30) days from the date of receipt by Summit Industries customer.

Warranty applies to cost of goods purchased only. Credit may not exceed the value of goods purchased.

All merchandise returns must receive prior written approval.  
Returns may not exceed 4% of annual purchases.

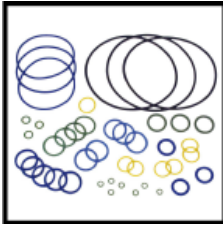
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## – Summit Product Lines –



- **O-Rings** - Standard & metric sizes available in Nitrile, Neoprene, and Green HNBR. Available bulk and in packaged assortments.
- **Molded Seals** - Standard and custom rubber shapes in multiple compounds. Available bulk and in packaged assortments.



- **Lathe Cuts** - Rubber and teflon varieties in stock. Custom lathe cuts available. Available bulk and in packaged assortments.
- **Fiber Gaskets** - Non-asbestos gaskets in scores of shapes and configurations. Available bulk and in packaged quantities.



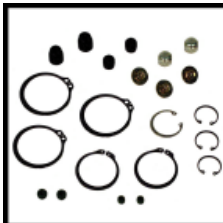
- **Coated Metal Gaskets** - For mobile A/C compressor and A/C system applications. Available bulk and in packaged assortments.
- **Retaining Rings** - Internal, external, special applications. In stock. Available bulk and in packaged quantities and assortments.



- **Orifice Tubes** - All commonly required models for mobile A/C repair. Available bulk and in custom plastic box assortment kits.
- **Sealing Washers** - All sizes including standards, slimline and insert pilots. Available bulk and in packaged assortments.



- **Valve Cores and Tools** - Standard, large bore, and import models. Tools for installation and removal. Available bulk and in assortments.
- **Caps & Plugs** - Plastic and metal seal caps for charge ports and system access. Available bulk and in packaged assortments.



- **Shipping Plates/Pad/Plugs** - Metal shipping plates and rubber pads. Plastic GM style shipping plugs for GM and Ford FS-10 compressors.
- **Poly Bag Kits / Plastic Box Assortments** - All types of packaging. Bagging, boxing, cabinets, custom labeling, and bar-coding.



- **Shaft Seal Kits & Components** - Mechanical and lip seals for compressor sealing. Available in bulk packaging and in packaged kits.
- **Fasteners & Hardware** - All types including nuts, bolts, screws, bushings, garter springs, keys, and shims. SAE and metric.





# Mobile Air Conditioning Components

## – Summit Custom Parts - *Made Just for You* –

Summit publishes its **Mobile Air Conditioning Components** catalog as a general guide for our existing and prospective customers.

However, much of what we sell falls beyond the scope of this publication into the area of parts that are Custom-made for our individual customers.

As you look through our catalog, keep in mind that we can produce custom parts for you in virtually all the product areas listed.

## Below are just a few of Summit's Custom Capabilities:

### **O-Rings -**

- Custom Dimensions
- Custom Rubber Compounds
- Custom Colors

### **Lathe Cut Seals -**

- Custom Dimensions
- Custom Rubber Compounds
- Custom Colors

### **Packaging -**

- Private Branding
- Custom Bagging
- Custom Bags with Your Logo
- Custom Labeling & Bar Coding
- Custom Boxed Assortments
- Clamshell Packaging
- Shrink Packaging
- Skin Packaging

### **Metal Parts -**

- Ferrous and Non-ferrous
- Custom Machined Parts
- Custom Stamped Parts
- Custom Fasteners

### **Rubber Parts -**

- Rubber Bonded to Metal
- Custom Dimensions
- Custom Rubber Compounds
- Custom Colors

### **Plastic Parts -**

- All Materials
- Thermoplastic Elastomers
- A Rainbow of Colors

### **Gaskets -**

- All Materials and Thicknesses
- Steel Rule Die and Hard Tooling

### **Design and Build -**

- In-house Engineering Support
- Full Artwork/Design Capabilities
- Prototype Part Capabilities

### **Inventory -**

- Vendor Managed Inventory
- Backup Stocking Programs

**ISO9000 QS9002**

[illegible]



## O-RINGS

### FOR MOBILE A/C APPLICATIONS

| Product Description                      | Page No. |
|------------------------------------------|----------|
| O-Ring Numbering System                  | 8        |
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| <b>Metric &amp; Non-standard O-Rings</b> |          |
| Part Listing by Application              | 22       |
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### – SUMMIT O-RING NUMBERING SYSTEM –

**Summit Industries** provides O-Rings in numerous rubber compounds. For Mobile A/C, these are typically as follows: **Nitrile** (also called Buna N, NBR), **Neoprene** (also called Chloroprene), and **Highly Saturated Nitrile** (also called Hydrogenated Nitrile, HSN, HNBR). Summit has designated compound names to identify these compounds and their “durometers” (hardnesses) which are included as a part of the O-Ring part number. **Note:** all Summit Industries Mobile A/C O-Rings are of the same hardness: 70 durometer.

The following table illustrates the Summit Industries compound designations as they apply to a standard sized 011 O-Ring (No. 6 Hose Fitting).

#### **NITRILE O-RINGS** - example: **011B70**

Nitrile/Buna N 70 durometer is compound **B70**

#### **NEOPRENE O-RINGS** - example: **011C70**

Neoprene/Chloroprene 70 durometer is compound **C70**

#### **BLUE NEOPRENE O-RINGS** - example: **011C70B** (BLUE TEFLON COATED)

Neoprene/Chloroprene 70 durometer with baked-on blue teflon coating is compound **C70B**

#### **HIGHLY SATURATED NITRILE O-RINGS**

examples: **011GHSN70**, **011YHSN70**, **011PHSN70**

Highly Saturated/Hydrogenated Nitrile 70 durometer in green is compound **GHSN70**, in yellow - **YHSN70**, in purple - **PHSN70**

### **COMMON USAGES FOR DIFFERENT COMPOUNDS**

**Nitrile** is commonly used for sealing R-12 systems only.

**Neoprene & Blue Neoprene** are commonly used for sealing systems using R-12, R-134a, and various blended refrigerants.

**Highly Saturated Nitrile** is commonly used for sealing systems using R-12, R-134a, and various blended refrigerants. While usually colored green, there are other colors used by OEMs which can all be replaced with green.

**New O-Ring Compounds** for Mobile A/C are being examined at present and may be available for common use in the future. Notably, the newer compounds include **Ethylene Propylene (EP, EPDM)** and various blends of EP that are finding application at the OEM level.



# Mobile Air Conditioning Components

## - STANDARD O-RINGS -

### ORDERING INFO

When ordering O-Rings, add the compound suffix to the part number listed on these pages:

|               |                       |
|---------------|-----------------------|
| <b>C70</b>    | <b>Black Neoprene</b> |
| <b>C70B</b>   | <b>Blue Neoprene</b>  |
| <b>GHSN70</b> | <b>Green HNBR</b>     |
| <b>YHSN70</b> | <b>Yellow HNBR</b>    |
| <b>PHSN70</b> | <b>Purple HNBR</b>    |
| <b>B70</b>    | <b>Black Nitrile</b>  |

example: "011 green HNBR" is **011GHSN70**

### 006

Nippondenso 10PA17VC Control Valve O-Ring  
GM/Import Expansion Valve Capillary O-Ring

### 007

GM VIR Liquid Bleed Line O-Ring

### 008

GM/Ford Capillary Tube O-Ring  
Volvo Oil Bleed Line/TXV O-Ring (green)  
VW Oil Bleed Line/TXV O-Ring (green)

### 010

GM A-6 Oil Tube & Filler Bolt O-Ring  
GM VIR Condenser Line O-Ring  
Diesel Kiki DKS-16H Oil Plug O-Ring  
Ford U.K. Pressure Relief Valve O-Ring (green)  
Nissan No. 8 Hose Ftg. & Filter Drier O-Ring  
Nissan 8mm Switch, STV & TXV O-Ring  
Porsche No. 6 Hose Fitting O-Ring (green)  
Rover No. 6 Hose Fitting O-Ring (green)  
1/4" Valve Cap O-Ring

### 010.5

GM Orifice Tube O-Ring  
Ford FFOT O-Ring  
Acura Hose Fitting O-Ring  
Mazda Hose Fitting O-Ring  
Toyota T-100 Liquid Line O-Ring  
Import Oil Drain Plug O-Ring (several)  
Import Compressor Switch O-Ring (several)

### 011

No. 6 Hose Fitting O-Ring  
Ford Combination Valve Schrader Port O-Ring  
Ford Expansion Valve O-Ring  
Ford/Mazda No. 6 Springlock O-Ring (green)  
Ford U.K. Block Hose Fitting O-Ring (green)  
GM VIR Pickup Tube O-Ring  
GM DA-6/HR-6 Disch. Crossover O-Ring  
BMW Filter Drier/Condenser O-Ring (green)  
Citroen & Opel Drier & TXV O-Ring (green)  
Diesel Kiki BH/DKS13G Oil Plug O-Ring  
Hyundai No. 6 Springlock O-Ring (green)  
Jaguar Drier & TXV O-Ring (green)  
Mini Pressure Relief Valve O-Ring (Aftmkt)  
Nissan No. 10 Hose Fitting O-Ring  
Nissan 10mm Filter Drier & Cond. O-Ring  
Rover Drier & TXV O-Ring (green)  
Volvo No. 6 Hose Fitting O-Ring (yellow)  
VW/Audi Drier, & TXV O-Ring (green)

### 012

No. 6 Compression Fitting O-Ring  
Chrys. 6C-17 Lg. Control Valve O-Ring (inner)  
Chrys. 6C-17 Oil Plug & Press. Relief O-Ring  
GM Pressure Relief Valve O-Ring  
GM In-line Filter Connection O-Ring  
GM V-5 Control Valve O-Ring  
GM & Ford Pressure Cycling Switch O-Ring  
York & Sanden Oil Plug O-Ring  
Mitsu. FX105V Control Valve O-Ring (inner)  
Sanden Compressor 1/4" Service Port O-Ring  
Toyota Pressure Switch O-Ring  
Volvo Cycling Press. Switch O-Ring (green)

### 013

No. 8 Hose Fitting O-Ring  
Ford, Mazda, Hyundai No. 8 Springlock  
Fitting O-Ring (green)  
GM V-5 Control Valve O-Ring  
GM VIR Inlet Fitting O-Ring  
Mitsubishi Hose Fitting O-Ring (green)  
Nissan No. 12 Hose Fitting & Cond. O-Ring  
Nissan 12 mm STV, Drier, & Cond. O-Ring

# Mobile Air Conditioning Components

## - STANDARD O-RINGS -



### 013 continued

Toyota Discharge Line O-Ring  
Volvo No. 8 Hose fitting O-Ring (yellow)  
Aeroquip 13mm R-134a Retrofit Adptr. O-Ring

### 014

No. 8 Compression Fitting O-Ring  
GM In-line Filter O-Ring  
Mitsubishi FX105V Control Valve O-Ring (ctr)

### 015

No. 10 Hose Fitting O-Ring  
York/Tecumseh Tubo O-Ring  
Ford No. 10 Springlock Fitting O-Ring  
Mazda No. 10 Hose Fitting O-Ring  
Mitsubishi No. 10 Hose Fitting O-Ring  
Nippondenso TV Manifold Port O-Ring  
Nip. TV12C/TV14C Sensor Housing O-Ring  
Nissan Evaporator Suction Fitting O-Ring  
Nissan 16mm STV/Evaporator Fitting O-Ring  
Volvo No. 10 Hose Fitting O-Ring (yellow)

### 016

No. 10 Compression Fitting O-Ring  
Chrysler 6C-17 Small Control Valve O-Ring  
GM No. 12 Hose Fitting O-Ring  
Matsushita NL1300 S & D Port O-Ring  
Mitsubishi FX105V Control Valve O-Ring

### 017

No. 12 Hose Fitting O-Ring  
Chrysler 6C-17 Control Valve O-Ring (small)  
GM V-5 Control Valve O-Ring  
GM VIR Expansion Valve O-Ring (lower)  
GM VIR Outlet Tube Fitting O-Ring  
GM Evaporator Suction Line O-Ring  
Ford No. 12 Springlock Fitting O-Ring  
Nissan 19mm Evap. Suction Fitting O-Ring  
Volvo No. 12 Hose Fitting O-Ring (yellow)

### 018

No. 12 Compression Fitting O-Ring  
Chrysler 6C-17 Control Valve O-Ring (large)

### 019

Seiko Seiki SS170PSS Internal Rotor O-Ring

### 020

Chrysler EPR-ETR Valve O-Ring  
Ford Expansion Valve O-Ring  
Ford STV Combination Valve O-Ring

### 021

Nippondenso Inner Head O-Ring

### 022

GM VIR Expansion Valve O-Ring (upper & ctr)

### 024

GM A-6 Switch Conversion Plug O-Ring  
Nihon DKV14C Rotor Body Housing O-Ring

### 025

Seiko Seiki Internal Rear Suction O-Ring

### 026

GM VIR POA Valve O-Ring  
Keihin 150L/150R Piston Ring B/U O-Ring

### 028

Nihon DKV14C Rotor Body Rear O-Ring  
Behr-Bosch Wingcell Internal Head O-Ring

### 032

Keihin 150L/150R Head O-Ring

### 037

Hitachi MJS170 Inner VP O-Ring

### 041

Nihon DKV14C Outer Valve Body O-Ring

### 042

York Rear Plate O-Ring  
Matsushita NL1300AE4 Front Plate O-Ring  
Tecumseh HG500 Rear Plate O-Ring



# Mobile Air Conditioning Components

## - STANDARD O-RINGS -

**043**

Mitsubishi FX105V Nose Plate O-Ring

**046**

Keihin 150R Inner Case O-Ring

**047**

Mitsubishi Rear Body Housing O-Ring  
Nihon DKV14C Main Case O-Ring

**050**

Keihin 150L Outer Case O-Ring

**108**

Ford Evaporator Manifold Bleed Line O-Ring  
Ford Block Expansion Valve O-Ring  
GM No. 6 Captive Fitting O-Ring

**110**

GM No. 8 Captive Fitting O-Ring  
Chrysler 6C-17 Control Valve O-Ring (large)

**111**

GM VIR Sight Glass O-Ring  
Acura Hose Fitting O-Ring  
Hitachi A5000 S & D O-Ring  
Mitsubishi FX-80 Discharge Port O-Ring  
Nissan Condenser Block O-Ring  
Nissan 12mm Hitachi Discharge Port O-Ring

**112**

GM No. 10 Captive Fitting O-Ring  
GM DA-6 Carbon Shaft Seal Head O-Ring  
Sanden 505/TR Shaft Seal Head O-Ring  
Hitachi Compressor Crossover O-Ring  
Matsushita 1150 Shaft Seal Head O-Ring

**113**

GM No. 12 Captive Fitting O-Ring  
GM A-6 /R-4 Shaft Seal Head O-Ring  
Sanden 708/709 Shaft Seal Head O-Ring  
Mitsubishi FX80 Suction Port O-Ring  
Nihon DKV14C Shaft Seal Head O-Ring

**114**

Ford Aerostar Heater Core Springlock O-Ring  
Behr/Bosch Shaft Seal Head O-Ring  
Hitachi SWP123/167 Service Port O-Ring  
Keihin 150L/150R Seal Head O-Ring  
Mitsubishi FX105V Sensor O-Ring  
Nihon DKV14B Shaft Seal Head O-Ring  
Sanden Pad Mount Discharge Port O-Ring

**115**

GM V-5 Control Valve O-Ring (outer)

**116**

Ford FS-6 Suction & Discharge Port O-Ring  
Ford Aerostar Heater Core Springlock O-Ring  
Nippondenso 6E/6P S & D Port O-Ring  
Nippondenso 10P S & D Port O-Ring  
Hitachi SWP123/167 Service Port O-Ring  
Matsushita NL1300AE4 Seal Seat O-Ring  
Matsushita FX80 Lip Seal O-Ring (outer)  
Sanden Pad Mount Suction Port O-Ring

**117**

Ford Block Expansion Valve O-Ring  
Diesel Kiki DKS13G Suction Port O-Ring  
Mitsubishi FX105V Seal Seat O-Ring  
Nihon DKV14C Shaft Seal Seat O-Ring  
Sanden 505/507/TR70 Seal Seat O-Ring

**118**

GM Compressor Switch Port O-Ring  
Chrysler 6C-17 Switch Port O-Ring  
Seiko Seiki SS170PS Rotor Housing O-Ring

**119**

Chrysler RV-2 Muffler O-Ring  
Sanden 708/709 Seal Seat O-Ring  
Nip. 7SB16C Suction Ftg. Pilot O-Ring

**120**

GM A-6 Threaded Switch Conversion O-Ring  
Diesel Kiki DKS13G Seal Seat O-Ring



# Mobile Air Conditioning Components

## - STANDARD O-RINGS -



**121**

Behr Bosch Seal Seat O-Ring  
Keihin 150L/150R Seal Seat O-Ring  
Nihon DKV14B Seal Seat O-Ring  
York YA12/YA15 Seal Seat O-Ring

**123**

GM DA-6 Two Piece Seal Seat O-Ring  
Nihon DKV14B Inner Housing O-Ring

**124**

GM Shaft Seal O-Ring  
Ford HR-980 Seal Seat O-Ring  
Diesel kiki DKS16H Seal Seat O-Ring

**128**

Chrysler RV-2 Oil Pump O-Ring

**136**

Nippondenso 2C-90 Front Seal O-Ring

**146**

GM VIR Lower Shell to Body O-Ring

**150**

Seiko Seiki SS170PS Int. Rotor Housing O-Ring

**151**

GM VIR Upper Shell to Body O-Ring

**152**

Matsushita NL1300AE4 Case O-Ring  
Nippondenso TV14C Rotor Housing O-Ring

**153**

Nihon NVR140S Case O-Ring

**154**

Nihon DKV14C Case O-Ring

**155**

GM DA-6/HR-6 Case O-Ring  
GM HR-6HE/HD-6/HT-6 Case O-Ring

**155 continued**

Ford FX-15/FS-10 Case O-Ring  
Nihon DKV14B Case O-Ring

**156**

GM A-6 Shell O-Ring  
Behr Bosch Wingcell Case O-Ring

**157**

GM V-5 Shell O-Ring  
GM V-7 Shell O-Ring  
Behr Bosch Case O-Ring  
Diesel Kiki CH Center Shell O-Ring  
Nippondenso 10P-17C Shell O-Ring

**207**

Nip. 10P-13/10P-15/10P -17 Seal Seat O-Ring

**208**

Chrysler Block Expansion Valve O-Ring

**211**

GM A-6/DA-6/HR-6/V-5 S & D Port O-Ring (pre-sealing washer, exc. R-4)  
Ford FX-15/FS-10 S & D Port O-Ring  
Nippondenso 10PA17 S & D Port O-Ring  
Seiko Seiki SS170PSS S & D O-Ring (Saab)  
York Vane Rotary S & D Port O-Ring (Nissan)

**212**

GM R-4 S & D Port O-Ring (pre-sealing washer)  
Chrysler Block Expansion Valve O-Ring

**213**

Chrysler C-171/A-590 Seal Seat O-Ring (alt.)  
Ford FS-6 & Nippondenso 6P/6E/10P/TV Seal Seat O-Ring (alternate)

**219**

Behr Bosch Rotor O-Ring

**220**

Chrysler RV-2 Shaft Seal O-Ring



# Mobile Air Conditioning Components

## - STANDARD O-RINGS -

**231**

Chrysler RV-2 Nose Plate O-Ring

**239**

Seiko Seiki SS170PSS Rotor Housing O-Ring

**243**

Sanden TR-70 Rear Housing O-Ring

**244**

Nippondenso 6P-127/148 Shell O-Ring (alt.)

**246**

Chrysler C-171 Center Shell O-Ring (late model)

**248**

Chrysler 6E-171 Cylinder O-Ring  
Ford FS-6 Cylinder O-Ring (alternate)

**258**

GM R-4 Shell O-Ring

**901**

GM VIR Liquid Bleed Line O-Ring  
Nissan No. 6 Hose Fitting O-Ring  
Nissan 6mm STV, TXV Equalizer O-Ring  
TXV Capillary Tube O-Ring

**902**

Mitsubishi FX105V Rear Housing O-Ring  
Nissan 16mm Hose Fitting O-Ring

**903**

Ford Orifice Tube O-Ring, Mazda Hose O-Ring  
GM HR-6/HR-6HE Disch. Crossover O-Ring  
Mitsubishi FX105V/FX80 Head Bolt O-Ring  
Sanden TR-70 Oil Filler Bolt O-Ring

**904**

Block Fitting Service Valve O-Ring

**905**

Nippondenso 7SB16C Discharge Fitting O-Ring  
Import Block Fitting O-Ring - 10mm I.D.

**907**

Hitachi Manifold Plate O-Ring  
Toyota 13mm Block TXV O-Ring

**908**

Chrysler/Jeep 16mm Filter Drier O-Ring

**910**

Chrysler C-171/A-590 S & D Port O-Ring  
Ford FS-6 S & D Port O-Ring  
Nippondenso 6P/6E/10P S & D Port O-Ring  
Chrysler/Jeep 19mm Filter Drier O-Ring  
Matsushita NL Switch Port O-Ring

### OE CROSSOVERS

Please refer to the back of this catalog  
for a cross of OE part numbers to  
Summit Seal numbers.

### ORDERING INFO

When ordering O-Rings, add the compound suffix  
to the part number listed on these pages:

|               |                       |
|---------------|-----------------------|
| <b>C70</b>    | <b>Black Neoprene</b> |
| <b>C70B</b>   | <b>Blue Neoprene</b>  |
| <b>GHSN70</b> | <b>Green HNBR</b>     |
| <b>YHSN70</b> | <b>Yellow HNBR</b>    |
| <b>PHSN70</b> | <b>Purple HNBR</b>    |
| <b>B70</b>    | <b>Black Nitrile</b>  |

### Part Number Examples:

|                    |                  |
|--------------------|------------------|
| 011 Black Neoprene | <b>011C70</b>    |
| 011 Blue Neoprene  | <b>011C70B</b>   |
| 011 Green HNBR     | <b>011GHSN70</b> |
| 011 Yellow HNBR    | <b>011YHSN70</b> |
| 011 Purple HNBR    | <b>011PHSN70</b> |
| 011 Black Nitrile  | <b>011B70</b>    |

### IMPORTANT NOTE

Summit Industries is a “full-line” distributor of O-Rings and rubber products. If your requirement calls for O-Rings, lathe cut seals, custom rubber products or other sealing products that are not listed here, please call for assistance. We supply a broad assortment of configurations and compounds, both standard and custom, to meet the needs of individual customers.

# Mobile Air Conditioning Components

- O-RINGS - STANDARD -



## ORDERING INFO

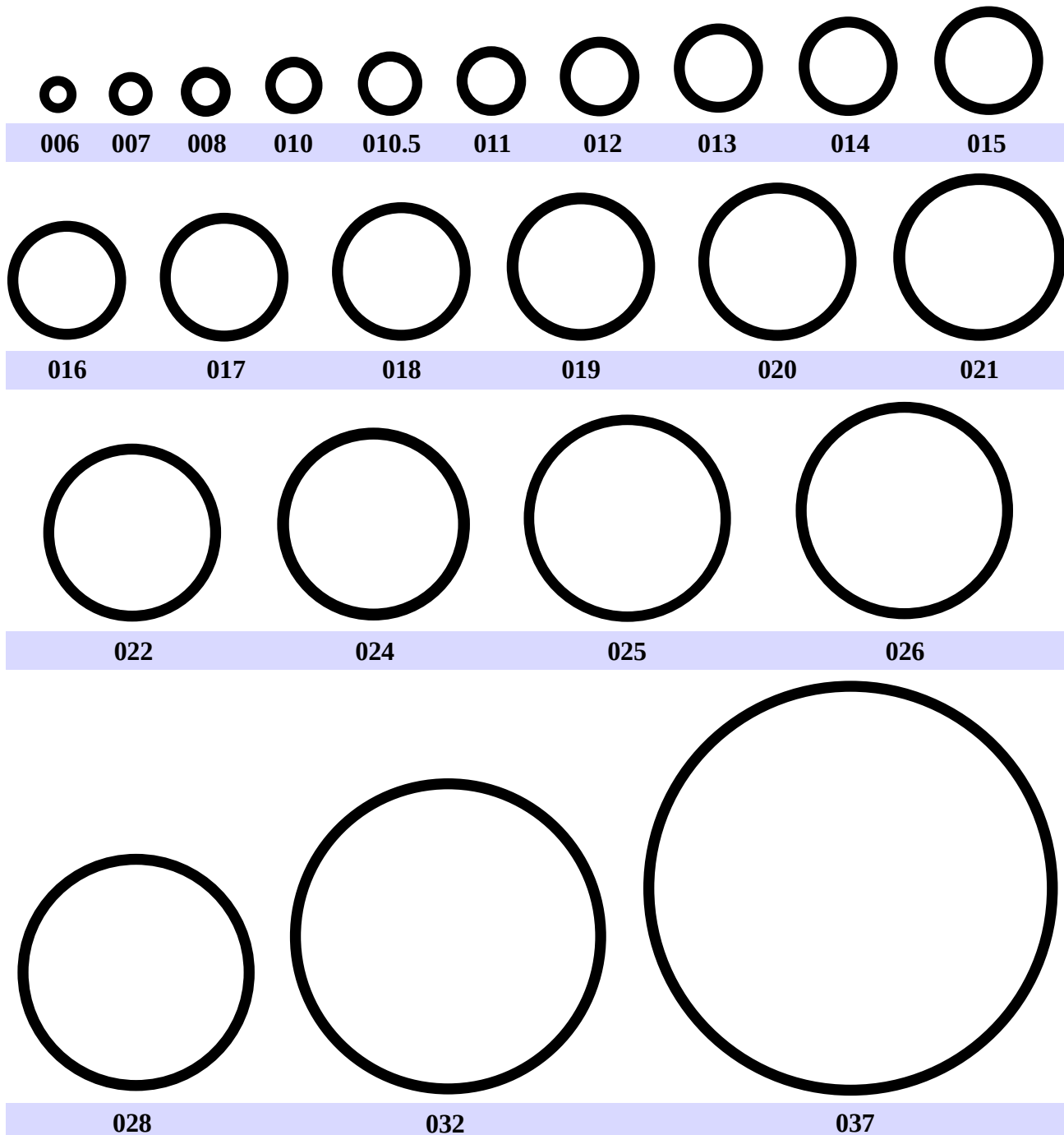
When ordering O-Rings, add the compound suffix to the part number listed on these pages:

|        |                |
|--------|----------------|
| C70    | Black Neoprene |
| GHSN70 | Green HNBR     |
| PHSN70 | Purple HNBR    |

|        |               |
|--------|---------------|
| C70B   | Blue Neoprene |
| YHSN70 | Yellow HNBR   |
| B70    | Black Nitrile |

For example: P/N for 011 in green HNBR is **011GHSN70**

## ILLUSTRATIONS ARE ACTUAL SIZE

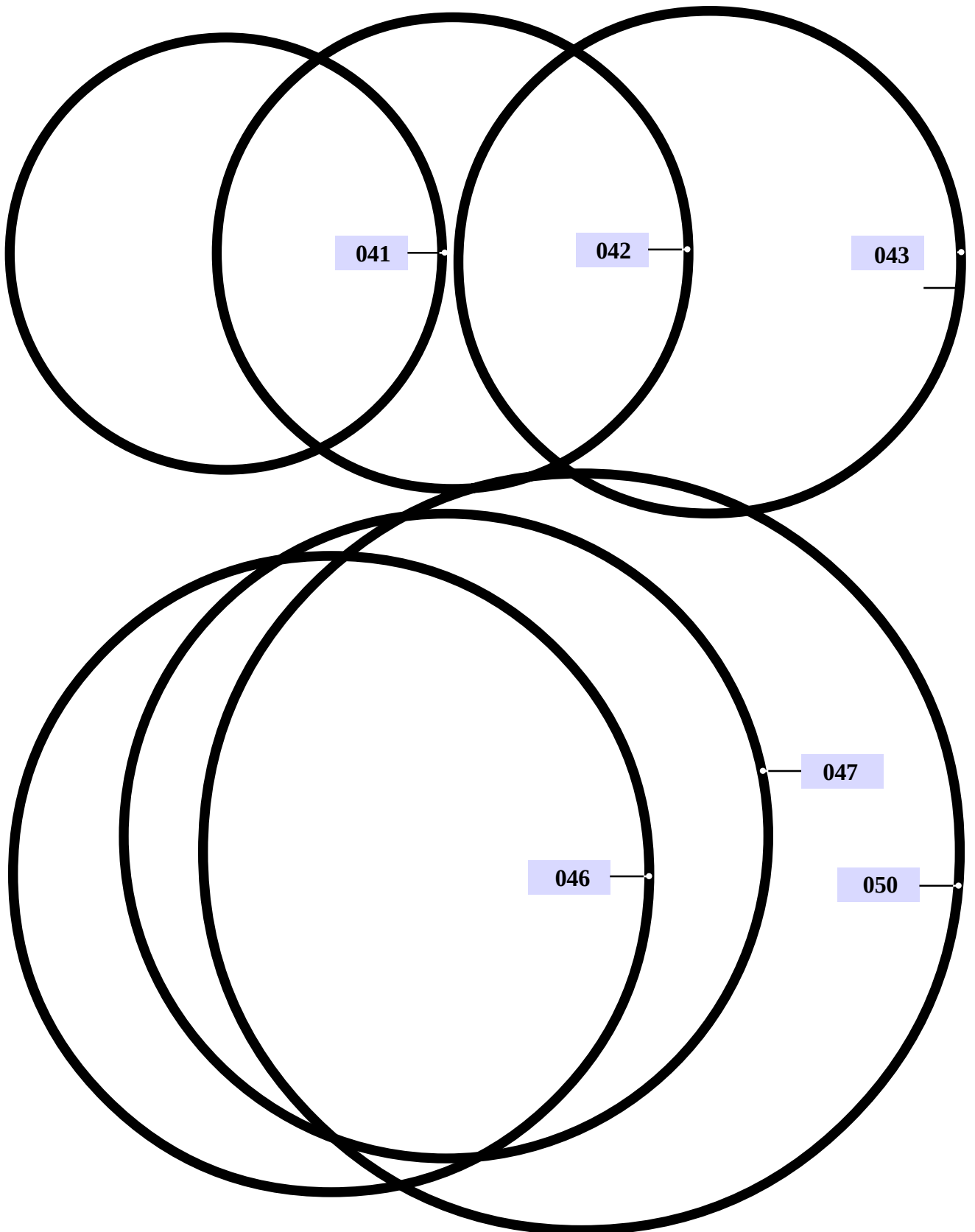




# Mobile Air Conditioning Components

- O-RINGS - STANDARD -

ILLUSTRATIONS ARE ACTUAL SIZE



# Mobile Air Conditioning Components

- O-RINGS - STANDARD -



ILLUSTRATIONS ARE ACTUAL SIZE



108

110

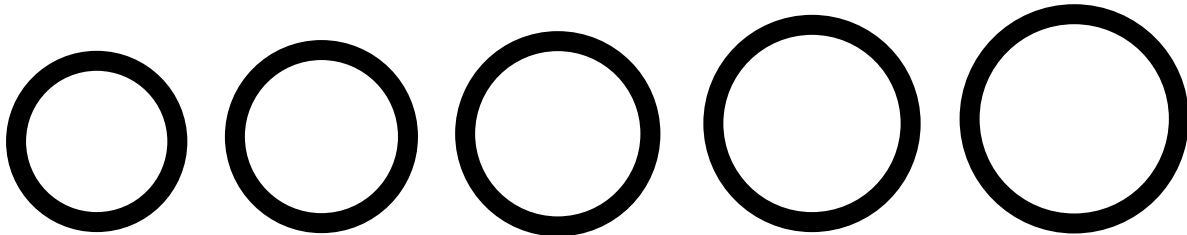
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112

113

114

115



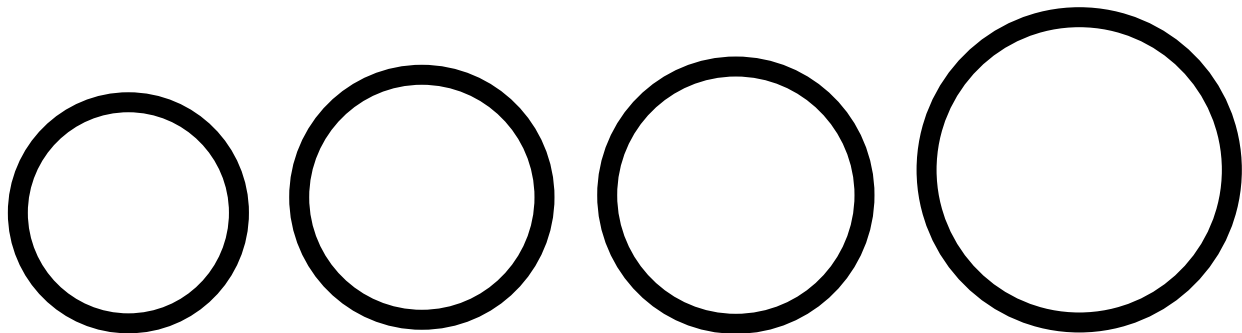
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117

118

119

120

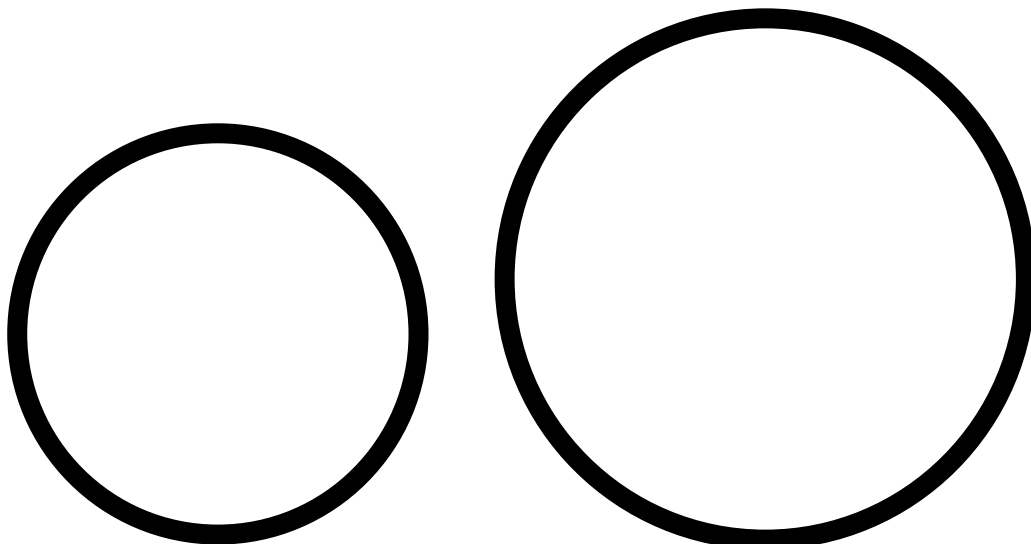


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124

128



136

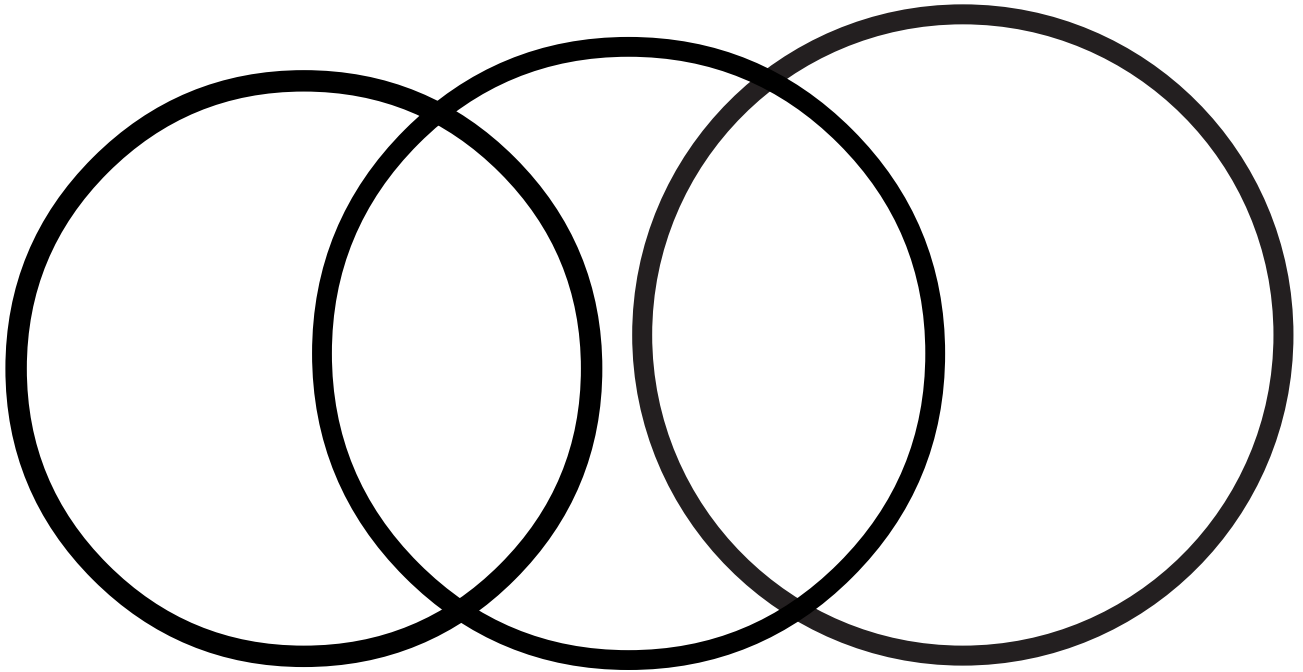
146



# Mobile Air Conditioning Components

- O-RINGS - STANDARD -

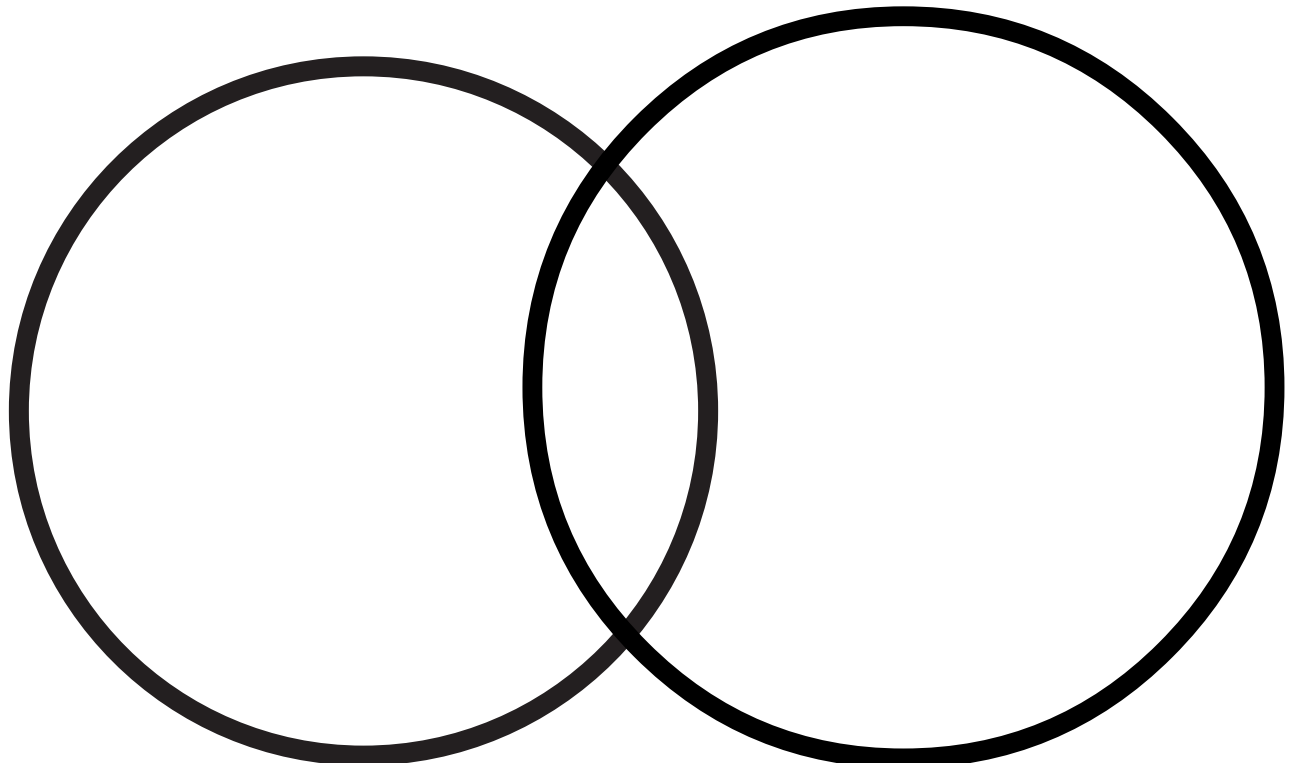
ILLUSTRATIONS ARE ACTUAL SIZE



150

151

152



153

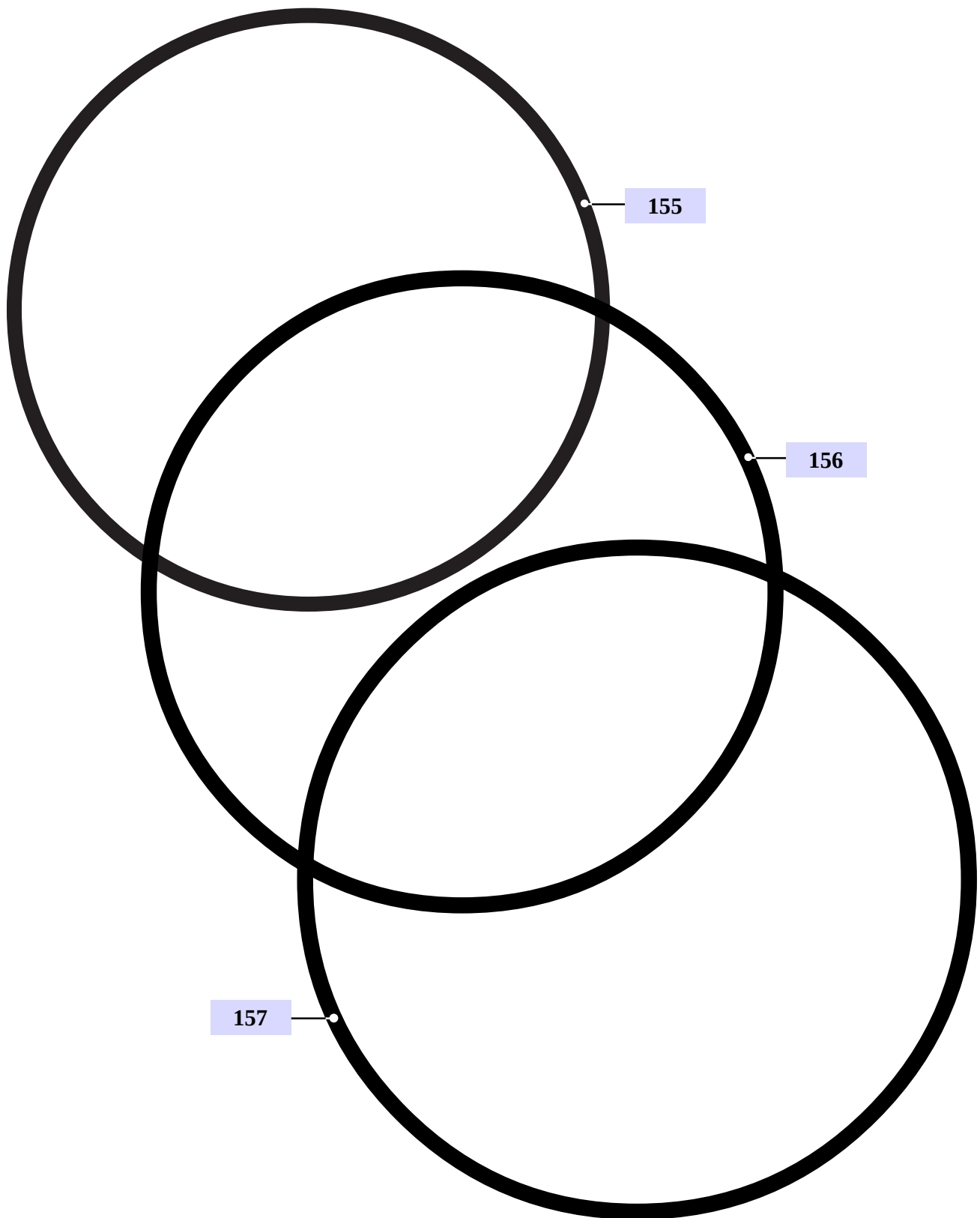
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# Mobile Air Conditioning Components

- O-RINGS - STANDARD -



ILLUSTRATIONS ARE ACTUAL SIZE





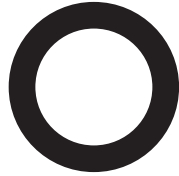
# Mobile Air Conditioning Components

- O-RINGS - STANDARD -

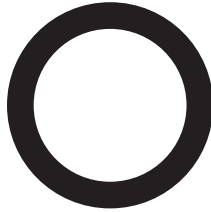
ILLUSTRATIONS ARE ACTUAL SIZE



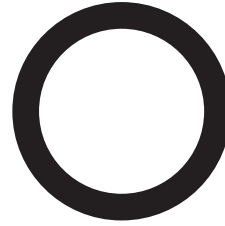
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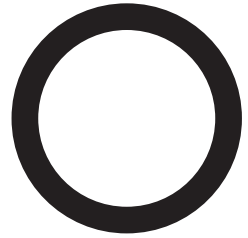
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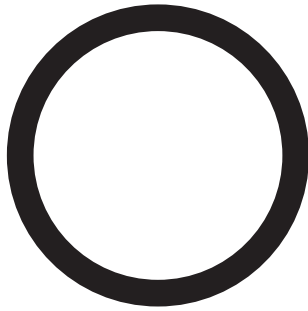
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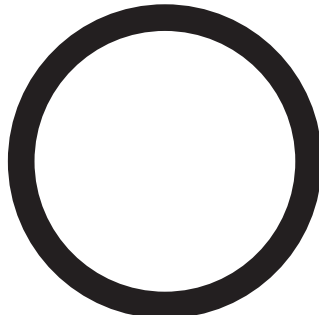
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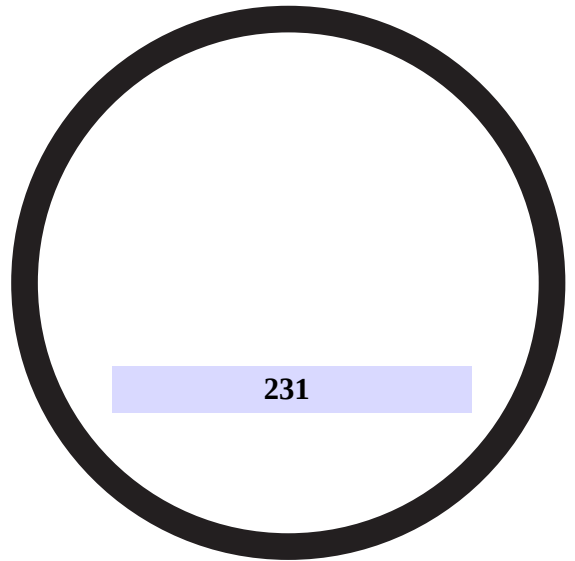
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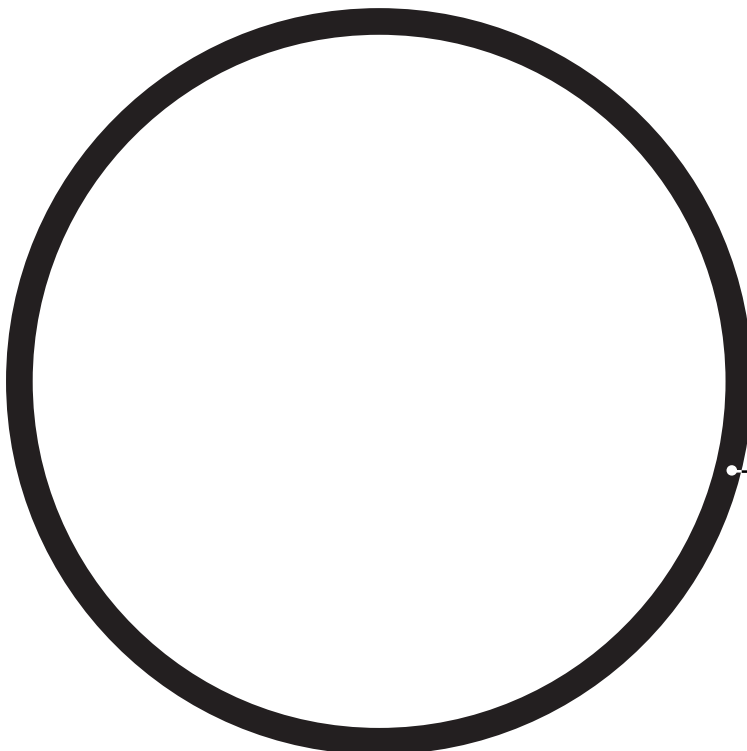
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220



231



239

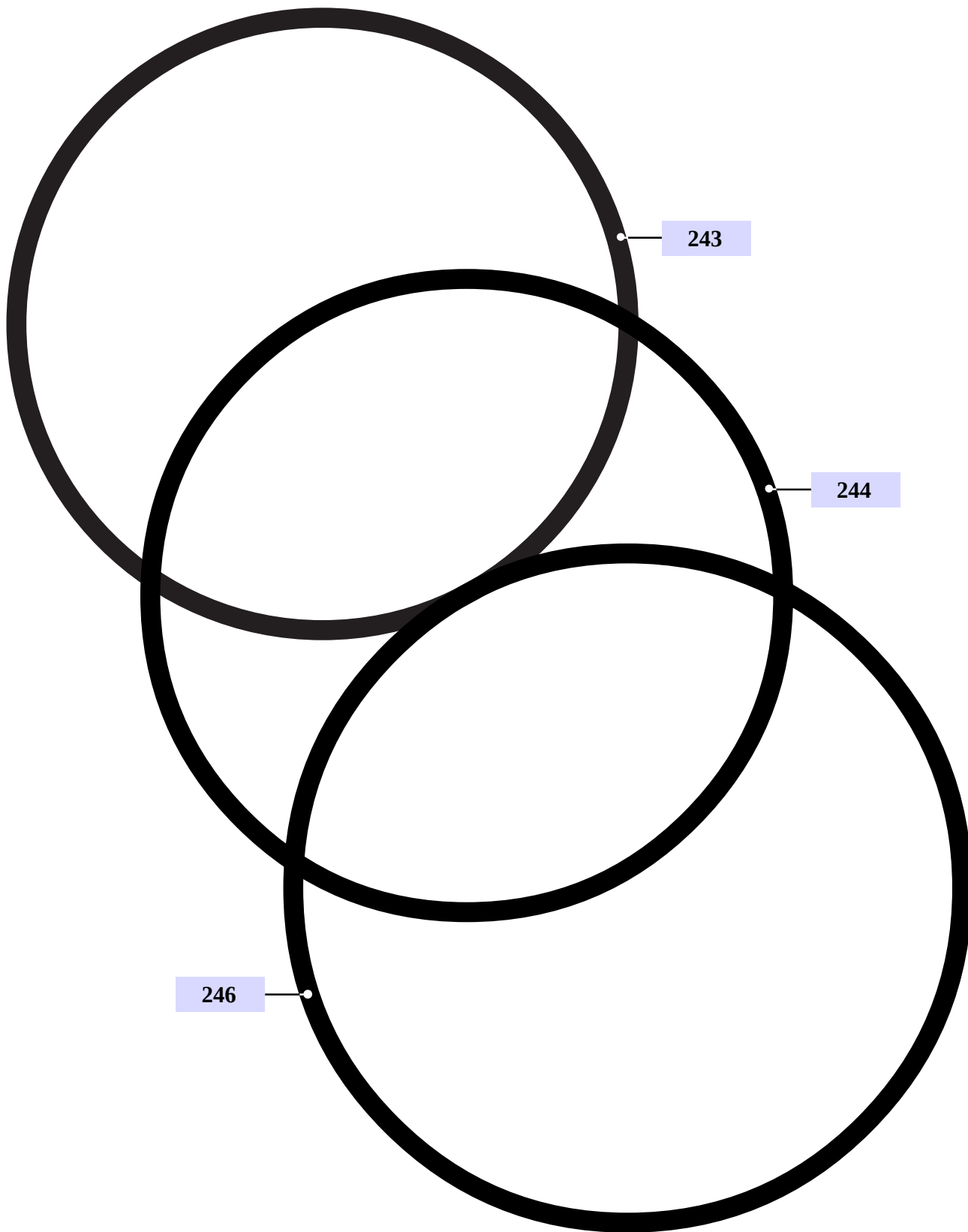


# Mobile Air Conditioning Components

- O-RINGS - STANDARD -



ILLUSTRATIONS ARE ACTUAL SIZE

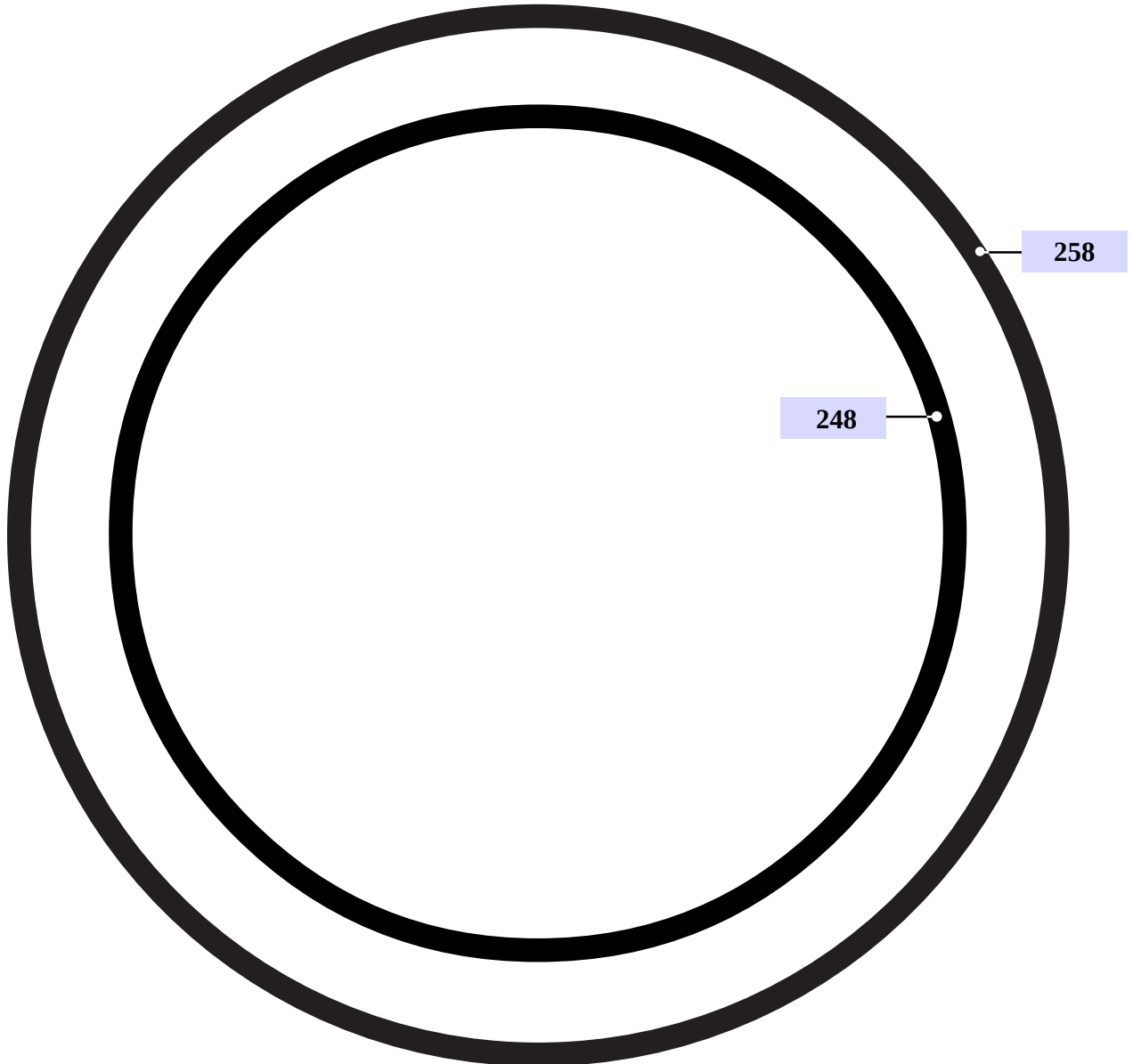




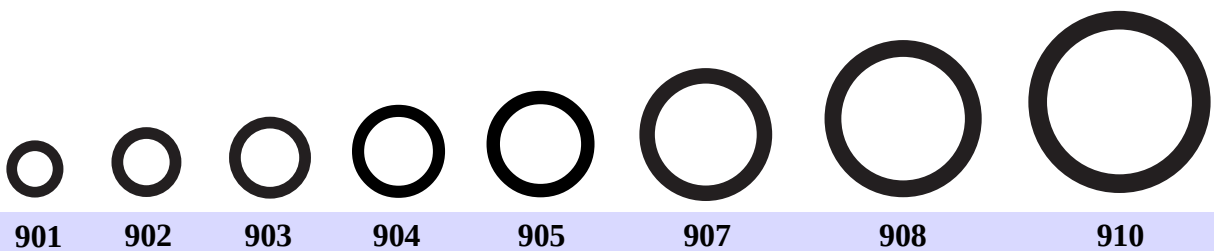
# Mobile Air Conditioning Components

- O-RINGS - STANDARD -

ILLUSTRATIONS ARE ACTUAL SIZE



## B SERIES "BOSS" O-RINGS



# Mobile Air Conditioning Components

- METRIC & NON-STANDARD O-RINGS -



## ORDERING INFO

When ordering Metric O-Rings, add the compound suffix to the P/N listed on these pages:

|               |                       |
|---------------|-----------------------|
| <b>C70</b>    | <b>Black Neoprene</b> |
| <b>C70B</b>   | <b>Blue Neoprene</b>  |
| <b>GHSN70</b> | <b>Green HNBR</b>     |
| <b>YHSN70</b> | <b>Yellow HNBR</b>    |
| <b>PHSN70</b> | <b>Purple HNBR</b>    |
| <b>B70</b>    | <b>Black Nitrile</b>  |

example: "M7X1.5 in black neoprene" is  
**M7X1.5C70**

### M6X2

Diesel Kiki DKS-16H Oil Plug O-Ring (small)  
Hitachi SWP123/167 Pickup Tube O-Ring

### M6.8X2

Import 6mm Hose Fitting O-Ring

### M7X1.5

Metric 7mm TXV O-Ring  
Mazda 7mm Hose Fitting O-Ring  
Mitsubishi 7mm Hose Fitting O-Ring  
Toyota No. 5 (7mm) Hose Fitting O-Ring  
Volvo R-134a Orifice Tube O-Ring

### M7.6X2

Metric 7mm Hose Fitting/TXV/Drier O-Ring

### M8X2

Ford R-134a Pressure Cycling Switch O-Ring  
Diesel Kiki Thru Bolt O-Ring

### M8.9X2

Metric 9mm Hose Fitting/Drier O-Ring

### M9X2.5

Metric 9mm Captured Fitting O-Ring

### M9.3X2

GM No. 8 Metric Captured Fitting O-Ring

### M9.5X2

GM No. 8 Metric Captured O-Ring (alt.)

### M9.6X1.9

GM No. 8 (1/2) Dual Metric Fitting O-Ring

### M10X2.5

Diesel Kiki DKS-16H Oil Plug O-Ring (lge)

### M10.8X2

Metric No. 8 Springlock O-Ring (green)  
Metric Hose Fitting O-Ring

### M11X2.4

Import 10mm Hose Fitting O-Ring

### M11X2.5

Hitachi MJ-110/123/167 S & D O-Ring

### M11.9X1.9

GM No 10 (5/8) Dual Metric Fitting O-Ring

### M11.49X2.43

Chrysler 10S Discharge Port O-Ring

### M12X2.5

Hitachi MJ -110/123/167 Crossover O-Ring

### M12.3X2.4

Import 12mm Metric Hose Fitting O-Ring

### M13X2.5

Hitachi SWP-123/167 Crossover O-Ring

### M13.1X1.56

Import 13mm Metric Hose Fitting O-Ring

### M13.6X2.5

Import 13mm Hose Fitting Evaporator O-Ring  
Chrysler 10S Suction Port O-Ring

### M14X1.5

Jaguar 14mm Hose Fitting O-Ring

### M14X2

Nippondenso TV12C/14C Manifold O-Ring  
Sanden 575 Shaft Seal O-Ring



# Mobile Air Conditioning Components

## - METRIC & NON-STANDARD O-RINGS -

### **M14X2 continued**

Saturn Block Connection O-Ring  
Toyota T100 Suciton Fitting O-Ring

### **M14X2.5**

Nippondenso TV10C Seal Head O-Ring

### **M14X3**

Nippondenso 10P-13C/15C Seal Head O-Ring

### **M14.2X2**

Nippondenso TV-12C/14C Manifold O-Ring

### **M14.3X2.5**

Import 14mm Metric Hose Fitting O-Ring

### **M14.7X1.9**

GM No. 12 (3/4) Dual Metric Fitting O-Ring

### **M15X2.5**

Hitachi MJ-130/MJS170 S & D O-Ring

### **M15X3**

Hitachi MJ-123/167 Seal Head O-Ring

### **M16X2**

Import 16mm Metric Hose Fitting O-Ring

### **M16.5X2.43**

Import 16.5mm Metric Hose Fitting O-Ring  
TM31 Service Valve Pilot O-Ring

### **M16.7x1.8**

Chrysler Mini-Van Suction Port O-Ring

### **M17X2**

Import 17mm Hose Fitting/Evap. O-Ring

### **M17X2.5**

Import 17mm Metric Hose Fitting O-Ring

### **M17.6X2.4**

Nihon DKV-14B Seal Seat O-Ring

### **M17.8X2.4**

Keihin 150L Suction Port O-Ring

### **M20X2.5**

Import 20mm Metric Hose Fitting O-Ring

### **M21X2**

Sanden Mini 575/TR Seal Seat O-Ring

### **M21.5X2.4**

Diesel Kiki CH Discharge Port O-Ring

### **M23X2**

Nippondenso 10P F & R Valve Plate O-Ring

### **M25X2.5**

Diesel Kiki BH Seal Seat O-Ring

### **M25X3**

Chrysler C-171/A-590 Seal Seat O-Ring  
Nippondenso 10P/10PA Seal Seat O-Ring  
Chrysler/Ford/Nippondenso Lip Seal O-Ring

### **M26X2.5**

Diesel Kiki CH Seal Seat O-Ring  
Nihon DKV14C Seal Seat O-Ring (large)

### **M27X2.5**

Hitachi MJ-110/123/MJS-130/170  
Seal Seat O-Ring

### **M28X2.5**

Nihon NVR-140S Seal Seat O-Ring

### **M29.2X3**

Hitachi MJ-167 Seal Seat O-Ring

### **M30X2**

Sanden SD507/508/510 Seal Seat O-Ring

### **M34X3**

Nippondenso 10P-15C Rear Switch O-Ring

# Mobile Air Conditioning Components

## - METRIC & NON-STANDARD O-RINGS -



### **M35X3**

Nippondenso 10P-15C Speed Sensor O-Ring

### **M48X2**

Keihin 150L/150R Cylinder Head O-Ring

### **M60X2**

Hitachi MJ110/167/MJS130 Inner VP O-Ring

### **M68X2**

Hitachi MJS170/A5000 Inner VP O-Ring

### **M73X2**

Nippondenso TV-10CA F & R Head O-Ring

### **M76X2**

Matsushita SA Series Shell O-Ring

### **M84X2**

Matsushita N/NL Series Shell O-Ring

### **M90X2**

Seiko Seiki SS170PSS Center Rotor O-Ring  
Seiko Seiki Nose O-Ring

### **M90X3**

Sanden SD7B10 Nose O-Ring

### **M94.5X3**

Seiko Seiki SS140/SS170 Nose Plate O-Ring

### **M102X3**

Mitsubishi FX80 Stationary Scroll O-Ring

### **M103X2**

Behr Bosch Axial Shell O-Ring  
Hitachi MJ167/MJS130 Outer VP O-Ring  
Mitsubishi MSC-90C Shell O-Ring  
Nippondenso 10PO8E Cylinder O-Ring

### **M104X2.5**

Nippondenso 10P-13C/15C Shell O-Ring

### **M105X2.5**

Nippondenso 10P Shell O-Ring  
GM HT/H6 Center Case O-Ring

### **M106X2**

Hitachi MJ110/130 Outer VP O-Ring

### **M108X3**

Nihon NVR-140S Front Case O-Ring  
Nippondenso 6P-127/148 Shell O-Ring  
Nippondenso 10PA-17 Shell O-Ring  
Seiko Seiki SS148 Shell O-Ring

### **M110X2**

Nippondenso 6E-171 F & R Case O-Ring

### **M111X2**

Diesel Kiki CH Front/Rear Shell O-Ring  
Mitsubishi MSC90C/105C Front Scroll O-Ring

### **M112X2**

Hitachi SWP167/MJ110/123/130 Rear Shell  
O-Ring

### **M113X3**

Seltec/Tama TM15HD Center Case O-Ring  
Sanden TRF105/TRS105 Rear Stationary  
Scroll O-Ring

### **M114X2**

Nippondenso 6P-134 F & R Shell O-Ring

### **M114X3**

Nippondenso 10PA20A/C/J/K Case O-Ring

### **M115X2**

Hitachi MJS170 Rear Shell O-Ring  
Sanden SD7V16 Case O-Ring

### **M116X2**

Nippondenso 6P-134 Center Shell O-Ring

### **M116.5X2.5**

Diesel Kiki DKS16H Front/Rear Case O-Ring



# Mobile Air Conditioning Components

## - METRIC & NON-STANDARD O-RINGS -

### M118.5X3

Nippondenso 6E-171 Shell O-Ring

### M120X2

Mitsubishi FX-105V Front Housing O-Ring

### M122X2

Calsonic V5-18A Case O-Ring

### M124X2

Chrysler 6C-17 Shell O-Ring

### M126X2

Nippondenso/Honda/Hadsys I/II Shell O-Ring

### NON-STANDARD O-RINGS

### 99-001

Ford FS-6/Nippondenso S & D O-Ring  
(oval cross section, **red neoprene**)

### 99-001B

Ford FS-6/Nippondenso S & D O-Ring  
(oval cross section, black neoprene)

### 99-002

Ford FS-6/Nippondenso S & D O-Ring  
(oval cross section, **green HNBR**)

### 99-003

GM S & D O-Ring (oval cross section, black)

### 99-003G

GM S & D O-Ring (oval cross section, green)

### 99-006

Ford No. 6 Metric Springlock O-Ring

### 99-007

Ford No. 8 Metric Springlock O-Ring

### 99-008

Ford No. 10 Metric Springlock O-Ring

### 99-009

Ford No. 12 Metric Springlock O-Ring

### 99-028

Mercedes Benz S & D “Nub” O-Ring

### OE CROSSOVERS

Please refer to **INDEX** at the back of this catalog for a cross of OE part numbers to Summit part numbers.

### ORDERING INFO

When ordering Metric O-Rings, add the compound suffix to the part number listed on these pages:

|               |                       |
|---------------|-----------------------|
| <b>C70</b>    | <b>Black Neoprene</b> |
| <b>C70B</b>   | <b>Blue Neoprene</b>  |
| <b>GHSN70</b> | <b>Green HNBR</b>     |
| <b>YHSN70</b> | <b>Yellow HNBR</b>    |
| <b>PHSN70</b> | <b>Purple HNBR</b>    |
| <b>B70</b>    | <b>Black Nitrile</b>  |

example: “M7X1.5 in black neoprene” is **M7X1.5C70**

**Not all O-Rings are available in all compounds.  
Call for compound availability for individual sizes.**

### IMPORTANT NOTE

Summit Industries, Inc. is a “**full-line**” distributor of O-Rings and rubber products. If your requirement calls for O-Rings, lathe cut seals, custom rubber products or other sealing products that are not listed here, please call for assistance. We supply a broad assortment of configurations and compounds, standard, metric, and custom, to meet the needs of individual customers.

# Mobile Air Conditioning Components

- METRIC & NON-STANDARD O-RINGS -



When ordering Metric O-Rings, add the compound suffix to the Part Number listed on these pages:

**C70** - Black Neoprene

**GHSN70** - Green HNBR

**PHSN70** - Purple HNBR

**C70B** - Blue Neoprene

**YHSN70** - Yellow HNBR

**B70** - Black Nitrile

For example: P/N for 6mm I.D. x 2mm C.S. green HNBR (M6X2) is **M6X2GHSN70**

## METRIC & NON-STANDARD O-RING ADDITIONAL SIZES

Summit Industries is a “full-line” supplier of Metric and Non-Standard O-Rings. If your requirement is for sizes or compounds not listed here, call for availability. Summit has access to hundreds of sizes of Metric and Non-standard O-Rings. If your O-Ring is not readily available, we can build custom tooling and manufacture any size of O-Ring.

### ILLUSTRATIONS ARE ACTUAL SIZE



**M6X2 M6.8X2 M7X1.5 M7.6X2 M8X2 M8.9X2 M9.3X2 M9.5X2**



**M9.6X1.9 M10X2.5 M10.8X2 M11X2.4 M11X2.5 M11.9X1.9 M12X2.5**



**M12.3X2.4 M13X2.5 M13.1X1.56 M13.6X2.5 M14X2 M14X2.5**



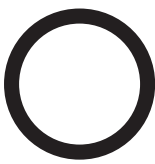
**M14X3 M14.2X2 M14.3X2.5 M14.7X1.9 M15X2.5 M15X3**



# Mobile Air Conditioning Components

- METRIC & NON-STANDARD O-RINGS -

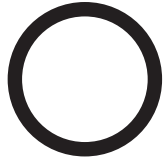
ILLUSTRATIONS ARE ACTUAL SIZE



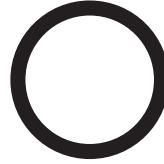
M16X2



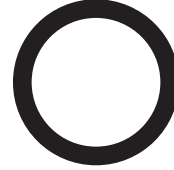
M16.5X2.43



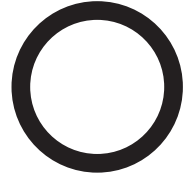
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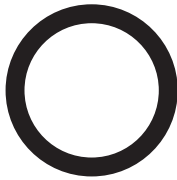
M17X2



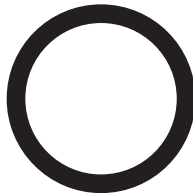
M17X2.5



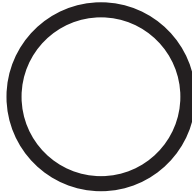
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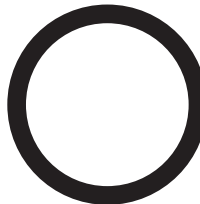
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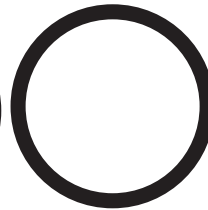
M20X2.5



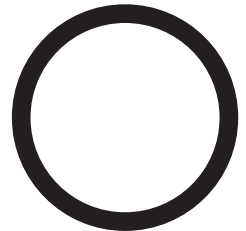
M21X2



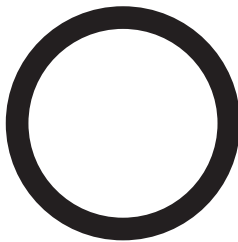
M21.5X2.4



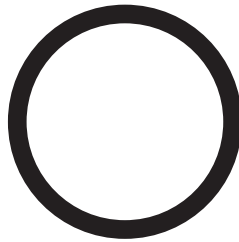
M23X2



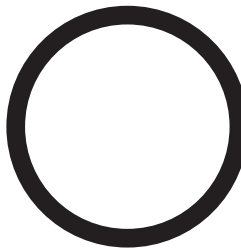
M25X2.5



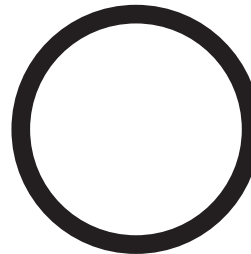
M25X3



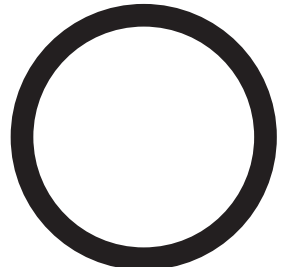
M26X2.5



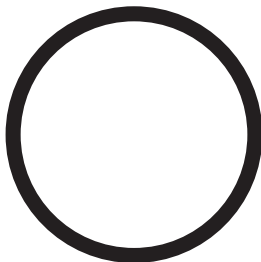
M27X2.5



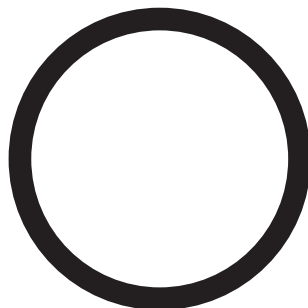
M28X2.5



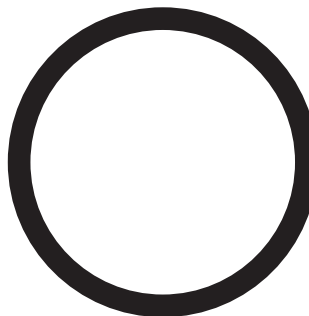
M29.2X3



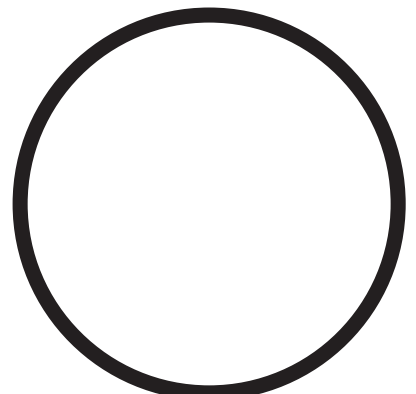
M30X2



M34X3



M35X3



M48X2

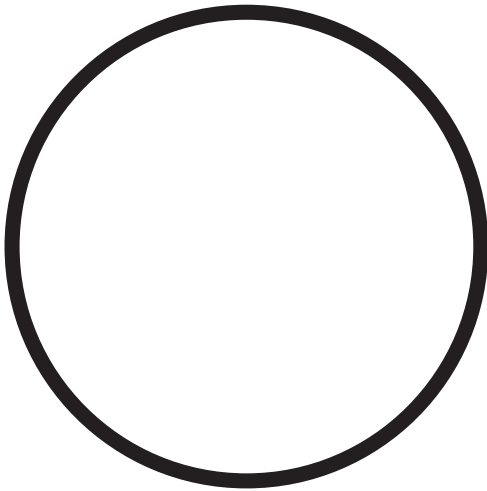


# Mobile Air Conditioning Components

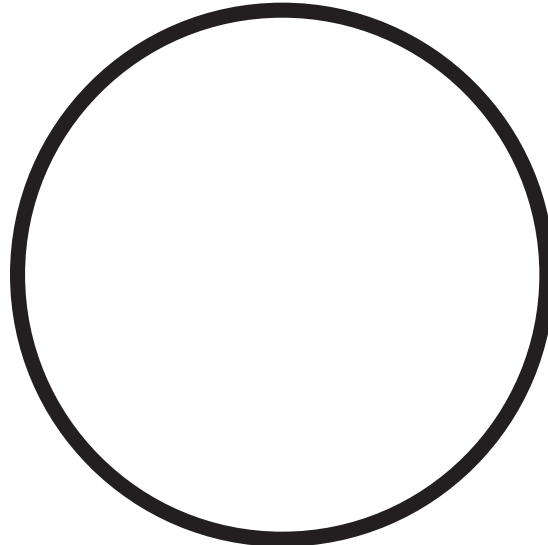
- METRIC & NON-STANDARD O-RINGS -



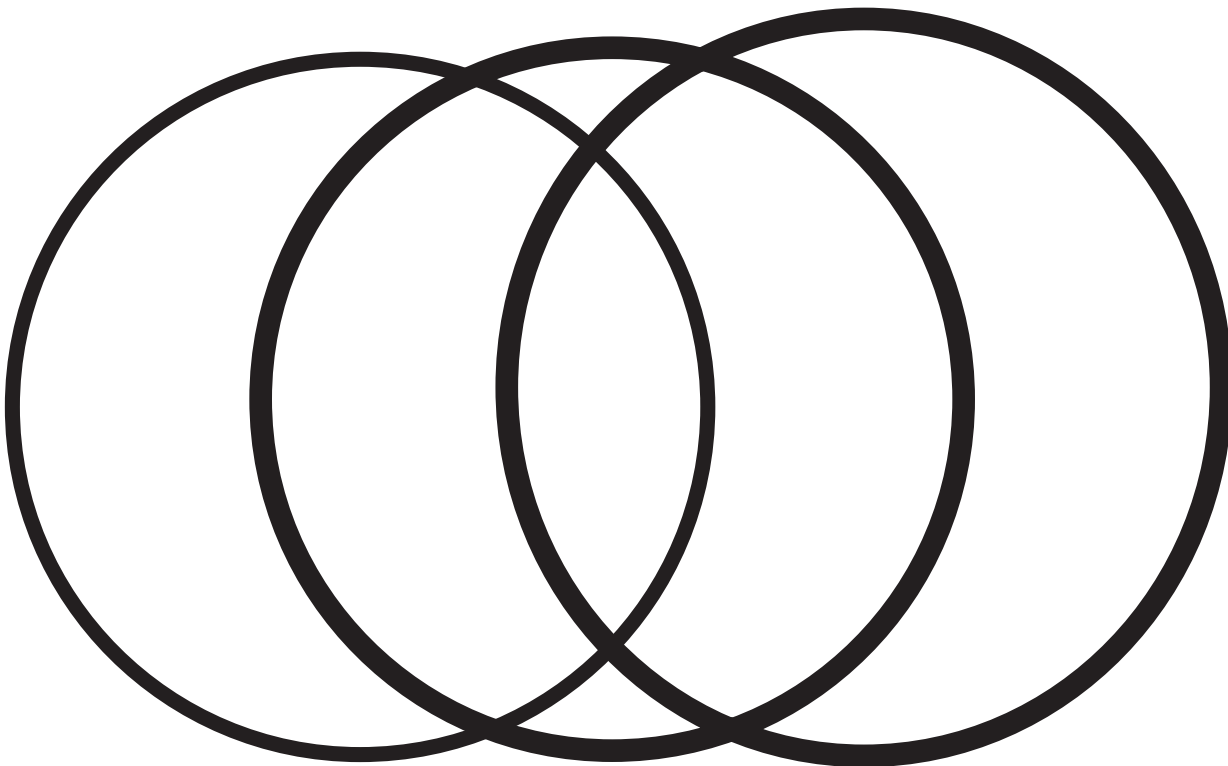
ILLUSTRATIONS ARE ACTUAL SIZE



**M60X2**



**M68X2**



**M90X2**

**M90X3**

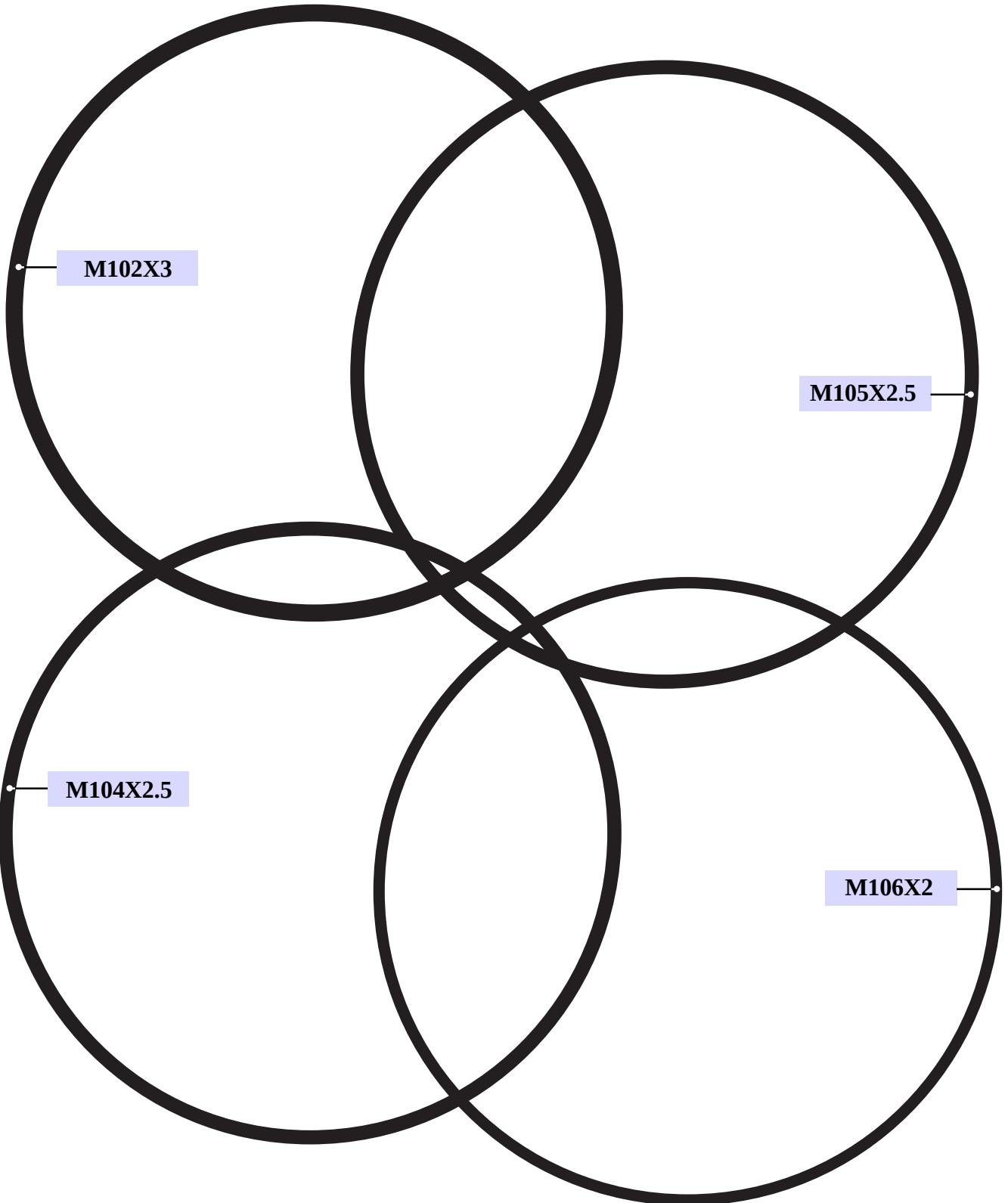
**M94.5X3**



# Mobile Air Conditioning Components

- METRIC & NON-STANDARD O-RINGS -

ILLUSTRATIONS ARE ACTUAL SIZE

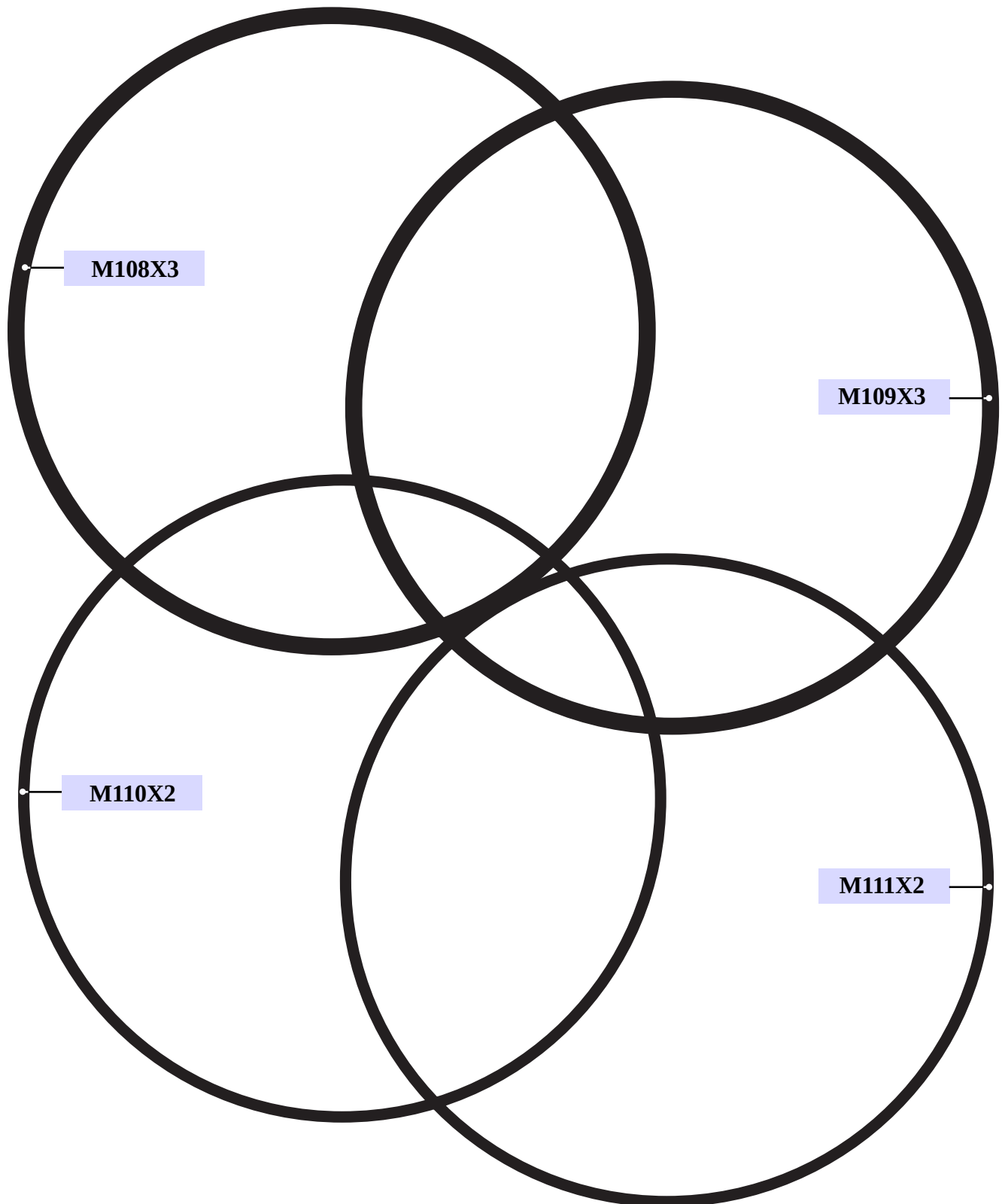


# Mobile Air Conditioning Components

- METRIC & NON-STANDARD O-RINGS -



ILLUSTRATIONS ARE ACTUAL SIZE

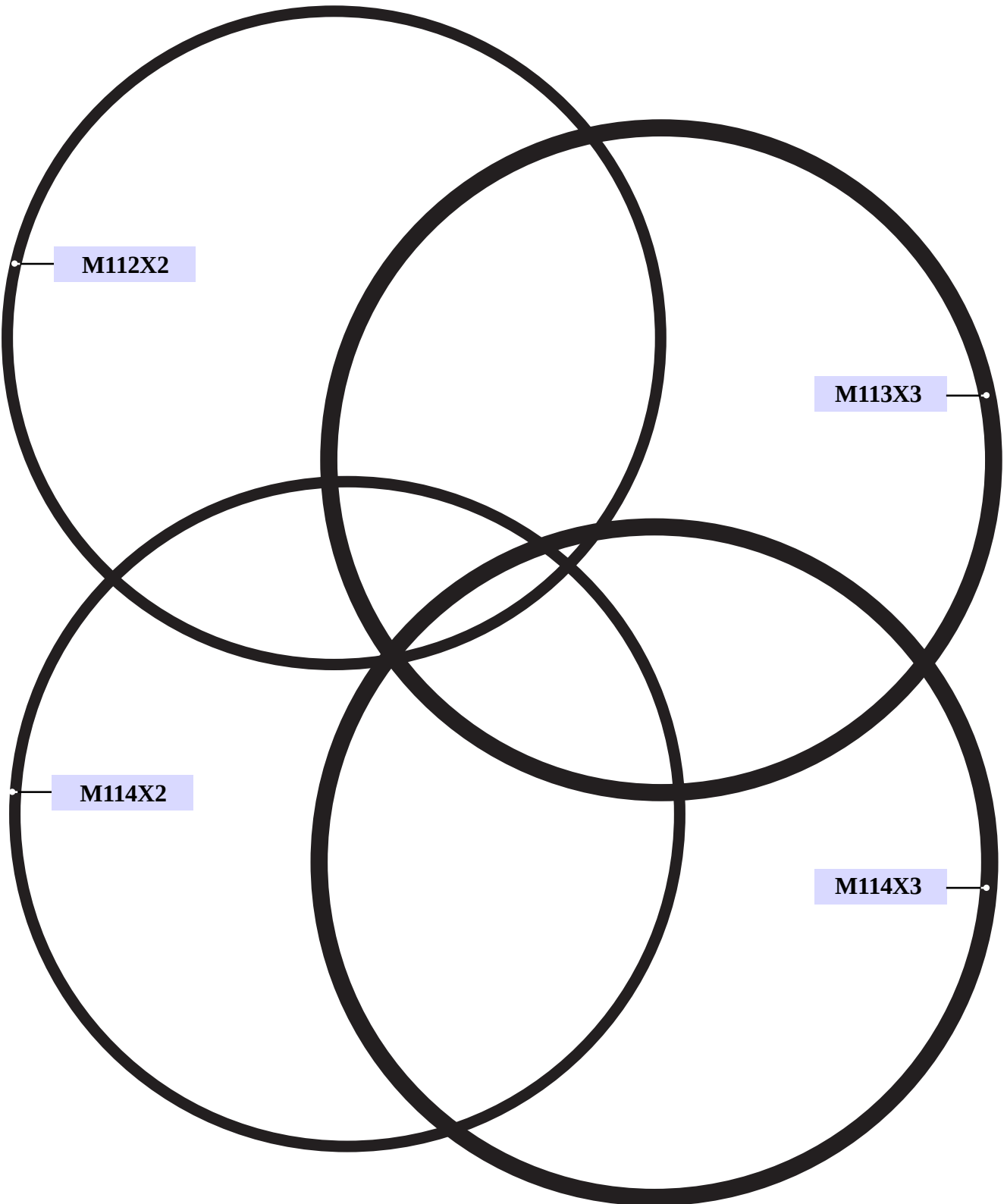




# Mobile Air Conditioning Components

- METRIC & NON-STANDARD O-RINGS -

ILLUSTRATIONS ARE ACTUAL SIZE

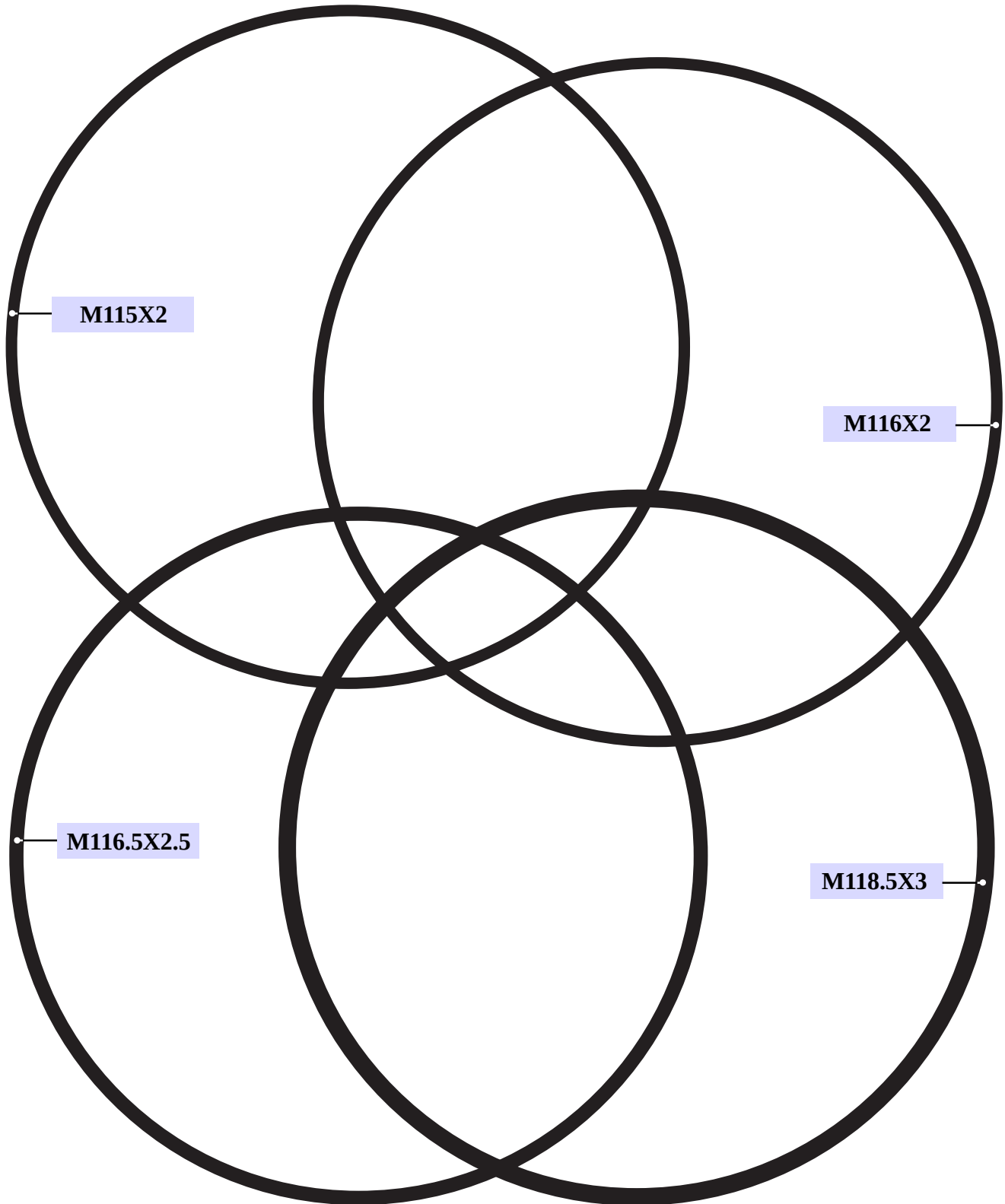


# Mobile Air Conditioning Components

- METRIC & NON-STANDARD O-RINGS -



ILLUSTRATIONS ARE ACTUAL SIZE

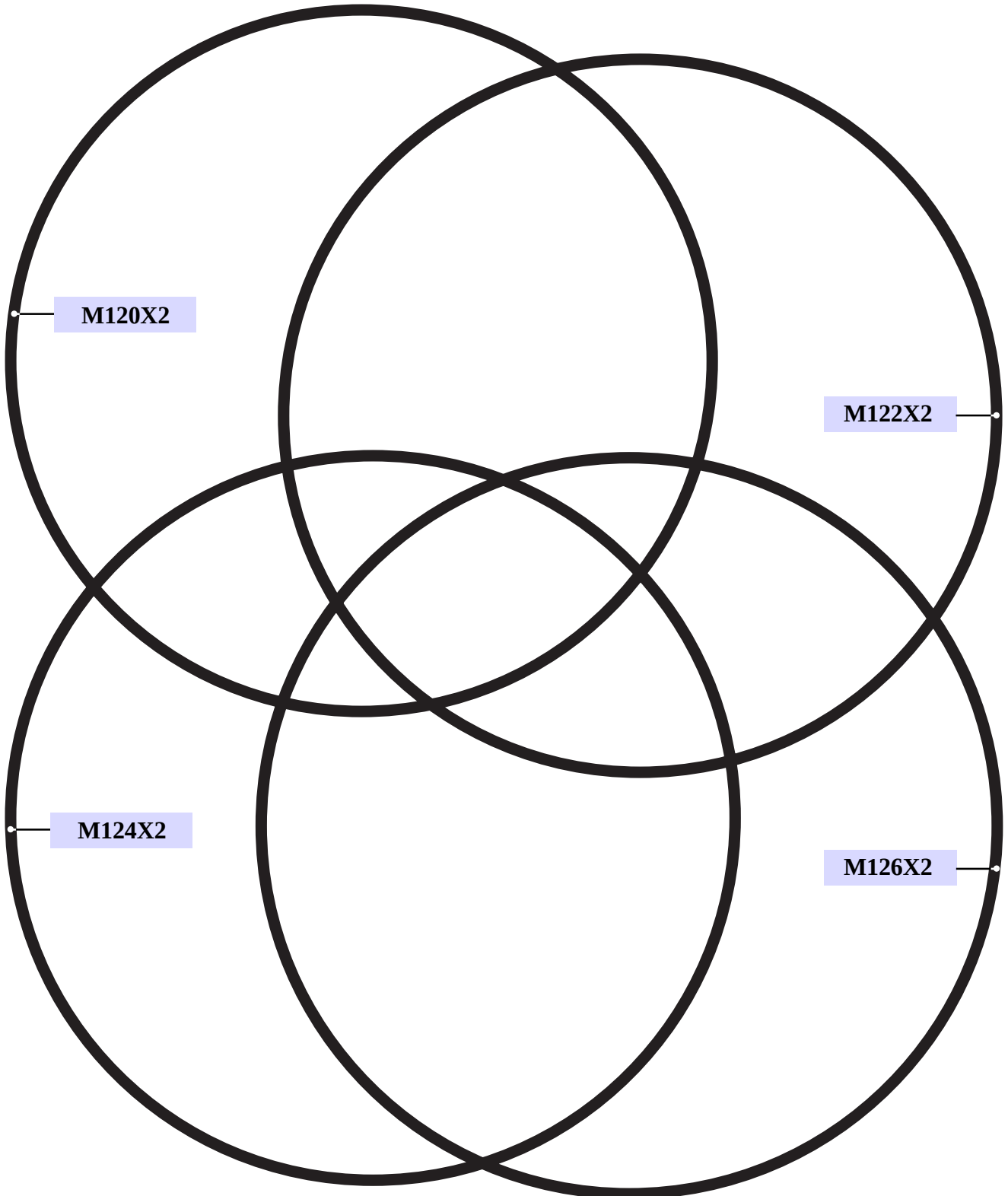




# Mobile Air Conditioning Components

- METRIC & NON-STANDARD O-RINGS -

ILLUSTRATIONS ARE ACTUAL SIZE

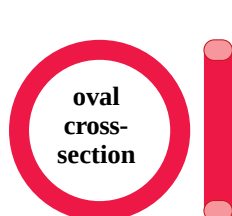


# Mobile Air Conditioning Components

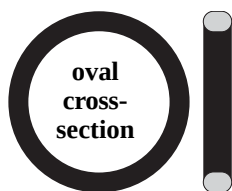
- METRIC & NON-STANDARD O-RINGS -



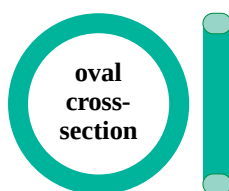
ILLUSTRATIONS ARE ACTUAL SIZE



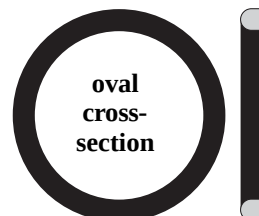
99-001 (red)



99-001B (black)



99-002 (green)



99-003 (black)



99-003G (green)



99-006



99-007



99-008



99-009



99-028

All Summit Industries O-Rings are available in the following packaged quantities:

**BULK • BAGGED 10 PER • BAGGED 100 PER • BAGGED 1,000 PER**

*or ANY QUANTITY YOU WANT*

Summit O-Rings are also available in -

- CUSTOM SIZES
- CUSTOM RUBBER COMPOUNDS
- CUSTOM RUBBER COLORS
- CUSTOM TEFLON COATINGS

Teflon coatings available in the following colors:

**BLUE, ORANGE, YELLOW, GREEN, RED, PURPLE, BROWN, and GRAY**



## **MOLDED RUBBER SEALS & GASKETS FOR MOBILE A/C APPLICATIONS**

| <b>Product Description</b>    | <b>Page No.</b> |
|-------------------------------|-----------------|
| Molded Rubber Seals & Gaskets |                 |
| Part Listing by Application   | 36              |
| Illustrations - Actual Size   | 38              |

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R**

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-  
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# Mobile Air Conditioning Components

## - SPECIAL SEALS & MANIFOLD GASKETS -



### 99-001

Ford FS-6 Compressor S & D O-Ring  
(oval cross section - OE red neoprene)

### 99-001B

Ford FS-6 Compressor S & D O-Ring  
(oval cross section - black neoprene)

### 99-002

Ford FS-6 Compressor S & D O-Ring  
(oval cross section - green HNBR)

### 99-003

GM S & D O-Ring (oval cross-section)

### 99-003G

GM S & D O-Ring (oval cross-section, green)

### 99-005

Nihon DKV-14B Front Nose Seal

### 99-006

Ford Springlock Metric O-Ring - No. 6

### 99-007

Ford Springlock Metric O-Ring - No. 8

### 99-008

Ford Springlock Metric O-Ring - No. 10

### 99-009

Ford Springlock Metric O-Ring - No.12

### 99-012

Nippondenso 10PA Manifold Gasket

### 99-013

Nippondenso 10PA-15C Manifold Gasket  
(Mercedes Benz)

### 99-016

Nippondenso 6CA-17K Front Case Gasket

### 99-017

Nippondenso 6CA-17K Rear Case Gasket

### 99-018

Diesel Kiki DKS-16H Center Case Gasket

### 99-019

Nihon DKV-14 A & D Front Stage Gasket

### 99-020

Nihon DKV-14 A & D Rear Stage Gasket

### 99-021

Matsushita NL1500 Manifold Gasket

### 99-022

Mitsubishi MSC90C Manifold Gasket

### 99-023

Mitsubishi MSC105C Rear Case Gasket

### 99-024

Mitsubishi MSC105C Manifold Gasket

### 99-025

Diesel Kiki DKS-13G Center Case Gasket

### 99-026

Behr Bosch Wingcell Nose Gasket

### 99-027

Nipp. 10PA-17C Manifold Gasket (BMW)

### 99-028

Mercedes Benz S & D "Nub" O-Ring

### 99-035

Nippondenso TV Manifold Gasket

### 99-036

Matsushita SA1150X3 Manifold Gasket



# Mobile Air Conditioning Components

## - SPECIAL SEALS & MANIFOLD GASKETS -

**99-037**

Nihon DKV-14A/D Valve Cover Plate Gasket

**99-038**

Nippondenso 7SB16C/7SBU16C/7SEU12C  
Manifold gasket

**99-040**

Panasonic/Matsushita N13AOAC4  
Manifold Gasket

**99-041**

Nippondenso TV10CA Valve Cover  
Plate Gasket

**99-042**

Diesel Kiki DCV11A Valve Cover  
Plate Gasket

**99-050**

Nissan Heater Core Connection Seal  
Large Diameter

**99-051**

Nissan Heater Core Connection Seal  
Small Diameter

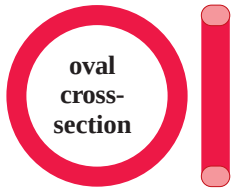
**If you don't find the part you need here,  
please call us.**

# Mobile Air Conditioning Components

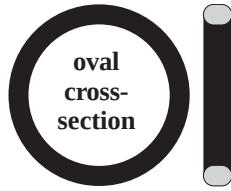
- SPECIAL SEALS & MANIFOLD GASKETS -



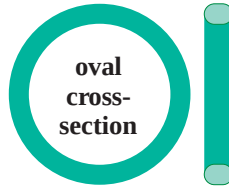
## NON-STANDARD "CUSTOM" O-RINGS - SHOWN ACTUAL SIZE



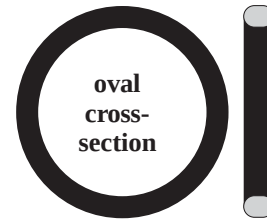
99-001 (red)



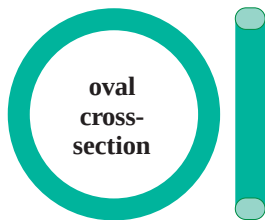
99-001B (black)



99-002 (green)



99-003 (black)



99-003G (green)

### ---- Ford/Mazda Springlock O-Rings ----



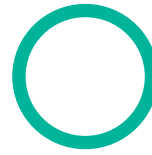
99-006



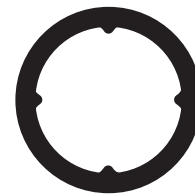
99-007



99-008

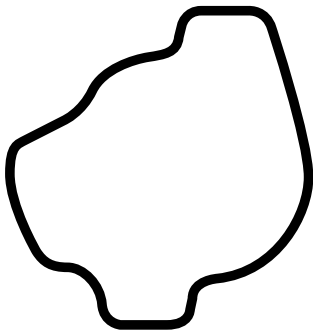


99-009

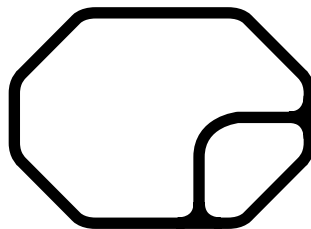


99-028

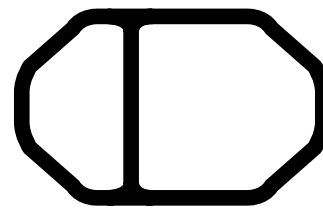
## FOLLOWING ILLUSTRATIONS ARE NOT ACTUAL SIZE



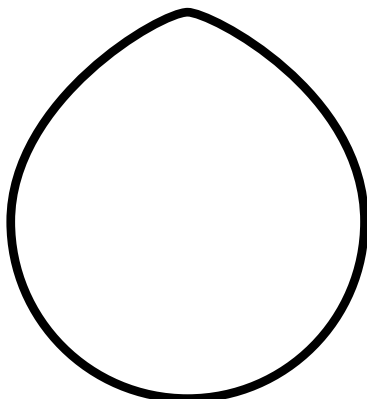
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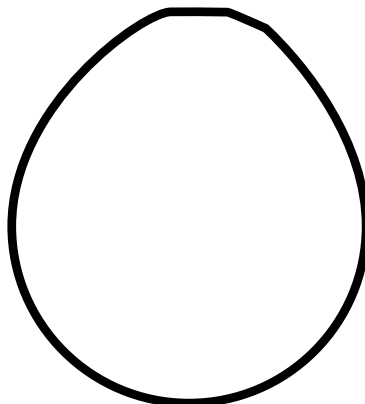
99-012



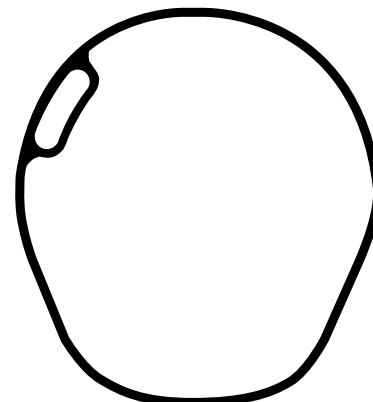
99-013



99-016

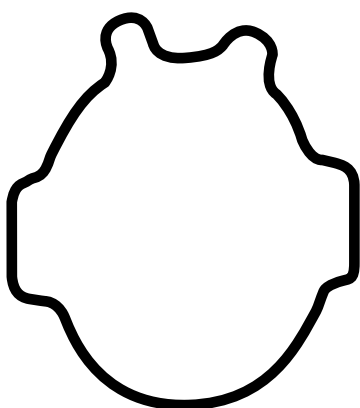


99-017

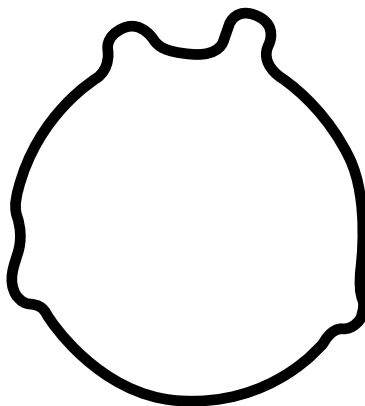


99-018

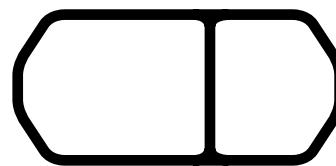
FOLLOWING ILLUSTRATIONS ARE NOT ACTUAL SIZE



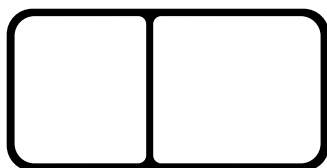
99-019



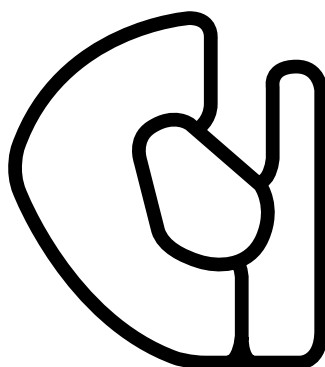
99-020



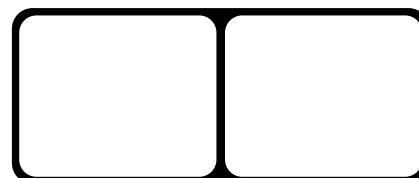
99-021



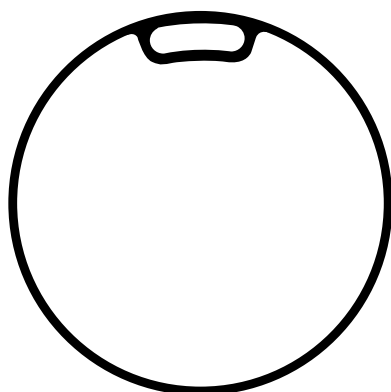
99-022



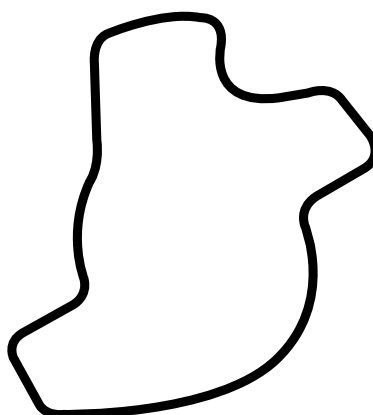
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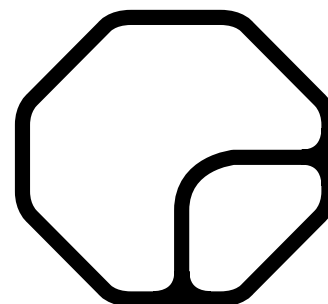
99-024



99-025



99-026



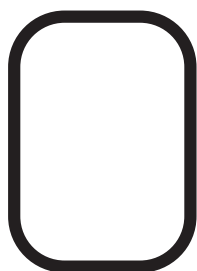
99-027

# Mobile Air Conditioning Components

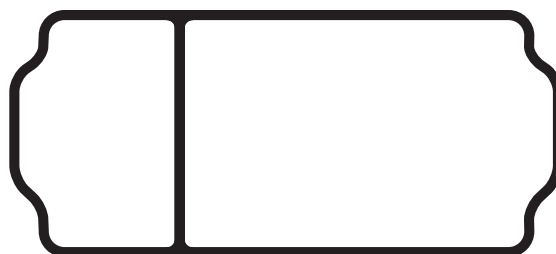
- SPECIAL SEALS & MANIFOLD GASKETS -



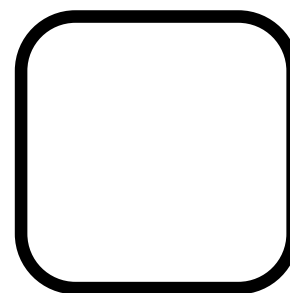
FOLLOWING ILLUSTRATIONS ARE NOT ACTUAL SIZE



99-035



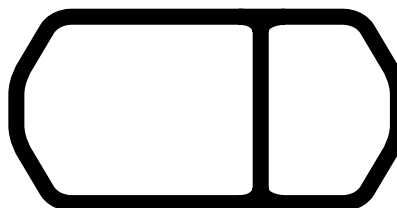
99-036



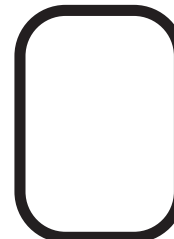
99-037



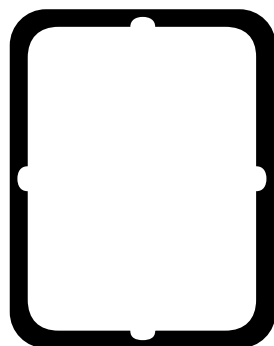
99-038



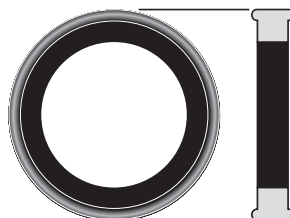
99-040



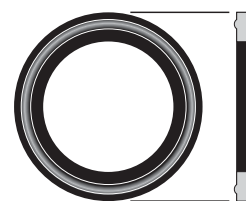
99-041



99-042



99-050



99-051



## **PACKAGED KITS & ASSORTMENTS**

FOR MOBILE A/C APPLICATIONS

| <b>Product Description</b>     | <b>Page No.</b> |
|--------------------------------|-----------------|
| Packaging Types & Capabilities | 42              |
| Plastic Box Assortments        | 43              |
| Plastic Box Styles & Sizes     | 48              |
| Plastic Drawer Cabinets        | 52              |
| Poly Bag Kits                  | 53              |
| Custom Assortment & Kits       | 58              |

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### CUSTOM PACKAGED ASSORTMENTS AVAILABLE

The Plastic Box Assortments pictured on the following pages represent the wide variety that are available from Summit Industries in terms of the configurations of the boxes and the types of parts incorporated into the assortments.

\* \* \* \* \*

### *Summit Specializes in Custom Packaging*

The majority of the kits Summit produces are custom-made for individual customers complete with custom insert cards bearing the customer's part numbers, descriptions, and logo.

Summit can help you design a parts assortment to meet your needs and develop the custom insert cards to identify the parts and quantities included.

Refer to the following pages for examples of Plastic Box Assortments offered by Summit and illustrations of Plastic Compartment Boxes and Cabinets available for producing assortments for our customers.

Please contact Summit for all your packaging needs and for information about the broad variety of packaging types that are available.

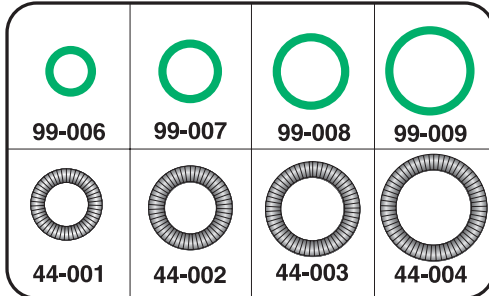
### *- SUMMIT PACKAGING CAPABILITIES -*

- Custom Boxed Assortments
  - Private Branding
  - Custom Bagging
- Custom Bags with Your Logo
- Custom Labeling & Bar Coding
  - Custom Parts Cabinets
  - Clamshell Packaging
  - Shrink Packaging
  - Skin Packaging

refer to [www.summitseal.com](http://www.summitseal.com) for information on all products available from Summit Industries, Inc.

### K88-001

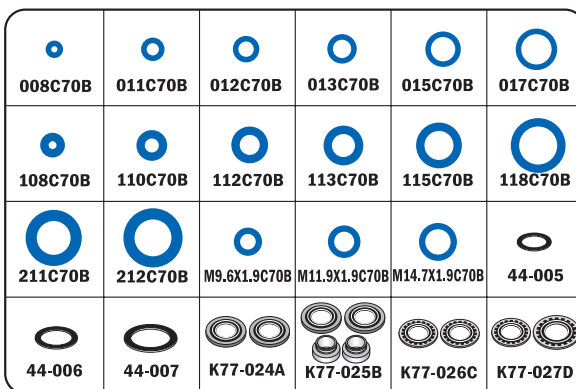
#### Ford/Mazda Springlock Garter Spring & Metric O-Ring Assortment



Contains  
10 of each O-Ring  
5 of each Garter Spring

### K88-004

#### GM Professional O-Ring & Sealing Washer Assortment

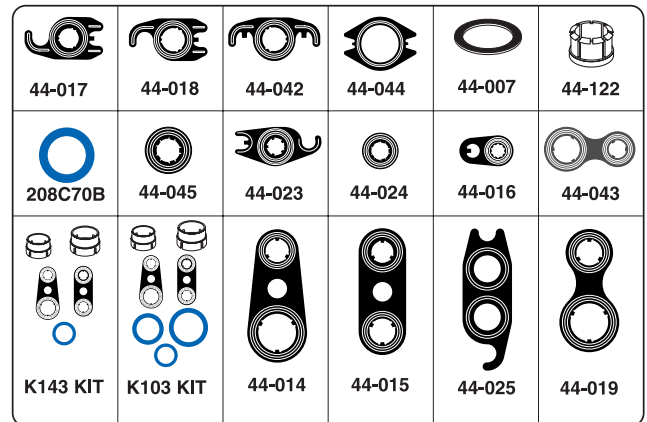


Contains  
10 of each O-Ring  
3 each of 44-005 / 44-006 / 44-007  
4 each of Sealing Washers & Pilot Inserts

Green O-Rings may be substituted for blue

### K88-002

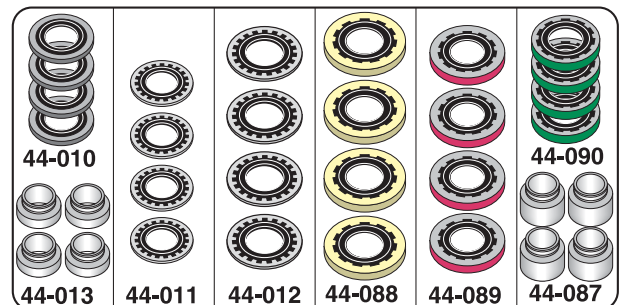
#### Chrysler Professional Metal Gasket Assortment



Contains  
10 of each Gasket  
1 of each Kit K143 and K103

### K88-006

#### GM Professional Sealing Washer and Insert Pilot Assortment



Contains  
4 of each item as shown

Contains Sealing Washers for  
AC System Service and Retrofit



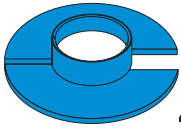
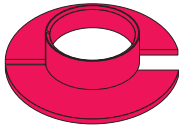
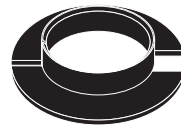
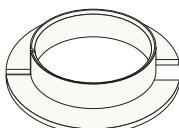
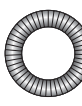
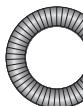
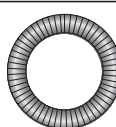
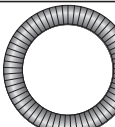
# Mobile Air Conditioning Components

- PLASTIC BOX ASSORTMENTS -



**K88-009**

## Ford Springlock Fitting Service Assortment

|                                                                                             |                                                                                             |                                                                                             |                                                                                              |                                                                                               |
|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <br>44-255 |                                                                                             | <br>44-256 | <br>44-257 |                                                                                               |
| <br>99-006 | <br>99-007 | <br>44-258 |                                                                                              | <br>44-001  |
| <br>99-008 | <br>99-009 |                                                                                             |                                                                                              | <br>44-002 |
|                                                                                             |                                                                                             |                                                                                             |                                                                                              | <br>44-003  |
|                                                                                             |                                                                                             |                                                                                             |                                                                                              | <br>44-004 |

Contains - 10 of each O-Ring, 5 of each garter spring, and 1 of each tool

**K88-010**

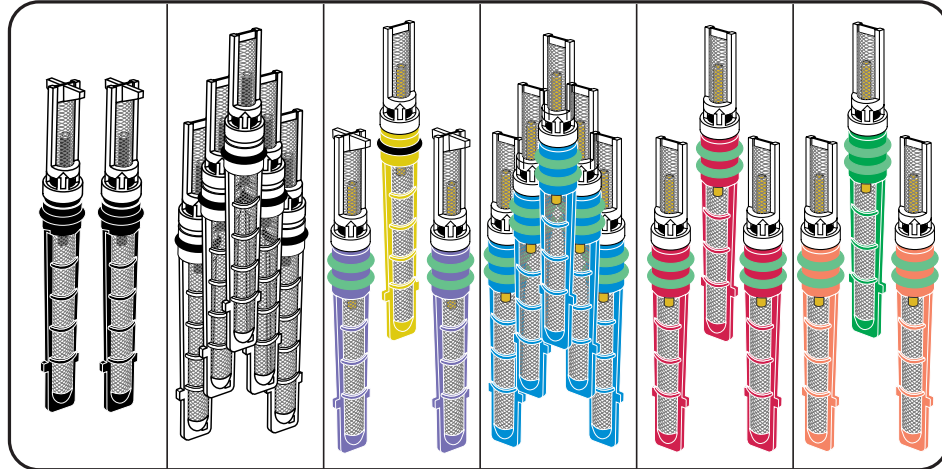
## Ford Professional Service Assortment

|                                                                                                  |                                                                                                  |                                                                                                  |                                                                                                  |                                                                                                      |                                                                                                    |
|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| <br>33-001    | <br>011GHSN70 | <br>013GHSN70 | <br>015GHSN70 | <br>017GHSN70    | <br>010GHSN70 |
| <br>11-003    | <br>44-001    | <br>44-002    | <br>44-003    | <br>44-004       | <br>108GHSN70 |
| <br>114GHSN70 | <br>910GHSN70 | <br>11-002    | <br>012GHSN70 | <br>117GHSN70   | <br>116GHSN70 |
| <br>99-002    | <br>211GHSN70 | <br>008GHSN70 | <br>11-005B   | <br>010.5GHSN70 |                                                                                                    |

Contains 10 of each item

**K88-011**

### Orifice Tube Master Service Assortment



#### Kit Contents

|                 |                 |       |               |             |       |
|-----------------|-----------------|-------|---------------|-------------|-------|
| <b>OT-GM-BW</b> | GM B&W T-top    | 2 ea. | <b>OT-F-B</b> | Ford Blue   | 5 ea. |
| <b>OT-GM-W</b>  | GM Blue         | 5 ea. | <b>OT-F-R</b> | Ford Red    | 3 ea. |
| <b>OT-C-P</b>   | Chrysler Purple | 2 ea. | <b>OT-F-O</b> | Ford Orange | 2 ea. |
| <b>OT-GM-Y</b>  | GM/Volvo Yellow | 1 ea. | <b>OT-F-G</b> | Ford Green  | 1 ea. |

**K88-012**

### GM & Chrysler Sealing Washer Service Assortment

|                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |   |  |  |
| <b>44-010</b>                                                                       | <b>44-011</b>                                                                       | <b>44-012</b>                                                                       | <b>44-088</b>                                                                        | <b>44-089</b>                                                                         | <b>44-090</b>                                                                         |
|  |  |  |   |  |  |
| <b>44-150</b>                                                                       | <b>44-151</b>                                                                       | <b>44-152</b>                                                                       | <b>44-153</b>                                                                        | <b>44-013</b>                                                                         | <b>44-087</b>                                                                         |
|  |  |  |  |  |  |
| <b>44-203</b>                                                                       | <b>44-204</b>                                                                       | <b>44-205</b>                                                                       | <b>44-206</b>                                                                        | <b>211GHSN70</b>                                                                      | <b>99-003G</b>                                                                        |

Contains 4 of all items except 2 each of 44-203, 44-204, 44-205, 44-206

# Mobile Air Conditioning Components

- PLASTIC BOX ASSORTMENTS -



**K88-014**

## Import O-Ring Shop Assortment

|                                                                                              |                                                                                              |                                                                                              |                                                                                                 |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <br>012C70B | <br>013C70B | <br>015C70B | <br>M7X1.5C70B |
| <br>901C70B | <br>010C70B | <br>011C70B | <br>113C70B    |
| <br>015C70B | <br>111C70B | <br>013C70B | <br>116C70B    |

Contains 10 of each O-Ring

Green O-Rings may be substituted for Blue

## CUSTOM PACKAGED ASSORTMENTS AVAILABLE

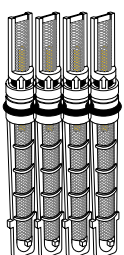
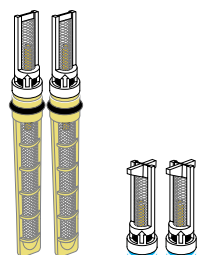
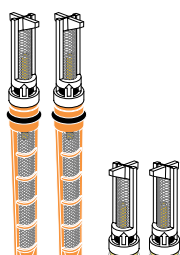
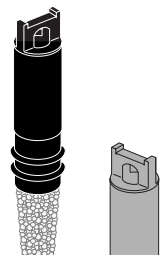
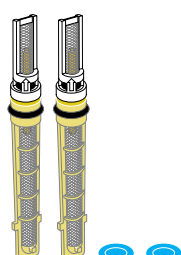
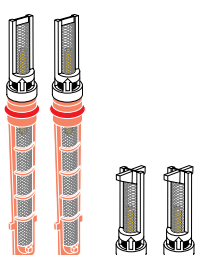
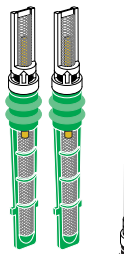
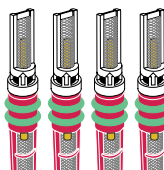
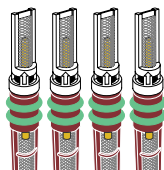
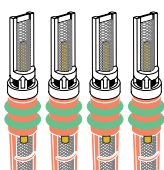
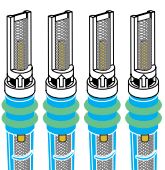
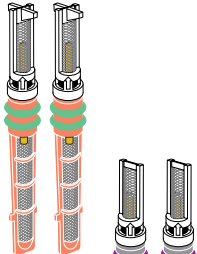
Summit offers the kits pictured here as examples of the types of assortments that are routinely available.

The majority of the kits Summit produces are custom-made for individual customers with custom insert cards bearing the customer's part numbers, descriptions, and logo.

Please contact Summit for information about the broad variety of packaging types that are available.

**K88-066**

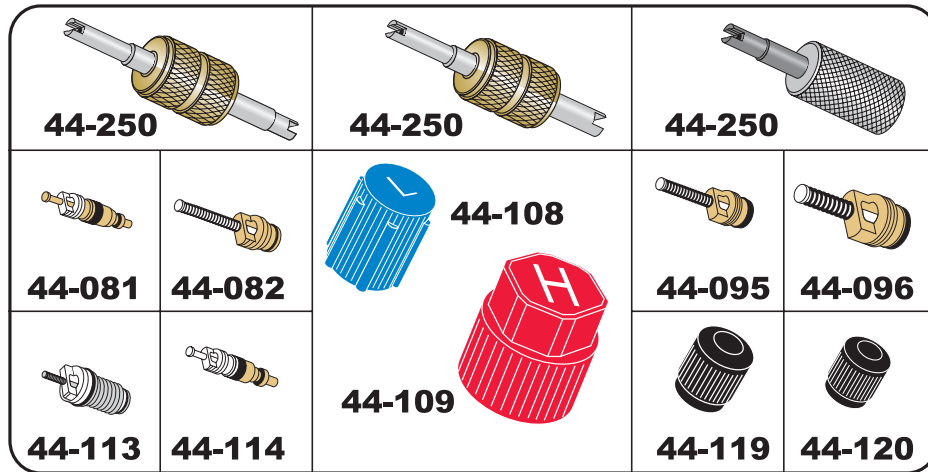
## Orifice Tube Professional Service Assortment

|                                                                                                            |                                                                                                              |                                                                                                                   |                                                                                                                       |                                                                                                              |                                                                                                                   |
|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <br>OT-GM-W<br>OT-GM-BW | <br>OT-GM-YW<br>OT-GM-BLW | <br>OT-GM-OW<br>OT-GM-YW T-TOP | <br>OT-GM-BW PPOT<br>OT-GM-GW PPOT | <br>OT-GM-Y<br>OT-GM-FIL | <br>OT-C-OW<br>OT-C-P        |
| <br>OT-F-G<br>OT-F-BW   | <br>OT-F-R                | <br>OT-F-BN                    | <br>OT-F-O                         | <br>OT-F-B               | <br>OT-C-OW T-TOP<br>OT-A-GW |

Orifice Tube Models for all North American Makes. GM Inline Filter included.  
48 Individual Items. Custom Assortments Available.

### K88-013

#### Valve Core, Valve Core Tool and Access Port Cap Assortment



Contains - 1 of each Tool, 5 of each 44-081, and 2 of all other items

#### These Additional Plastic Box Assortments Available Upon Request

K88-030 Honda Shop Service Assortment  
 K88-031 Toyota/Lexus Shop Assortment  
 K88-032 Nissan Shop Service Assortment  
  
 K88-033 Mazda Shop Service Assortment  
 K88-035 Subaru Shop Service Assortment  
 K88-036 Isuzu Shop Service Assortment  
  
 K88-038 Hyundai Shop Service Assortment  
 K88-050 Opel/Vauxhall Shop O-Ring Assmt.  
 K88-051 Opel/Vauxhall Master Assortment  
  
 K88-053 Fiat Shop Service Assortment  
 K88-054 Alfa Romeo Shop Assortment

K88-055 Mercedes (to 1987) Assortment  
 K88-056 Mercedes (1988 on) Assortment  
 K88-057 Audi/VW Shop Service Assortment  
  
 K88-058 Porsche Shop Service Assortment  
 K88-059 Volvo/Saab Shop Service Assortment  
 K88-060 Citroen/Puegeot Service Assortment  
  
 K88-061 Rover Shop Service Assortment  
 K88-062 Jaguar Shop Service Assortment  
 K88-063 Renault Shop Service Assortment  
  
 K88-064 BMW Shop Service Assortment  
 K88-065 European Ford Service Assortment

#### CUSTOM PACKAGED ASSORTMENTS AVAILABLE

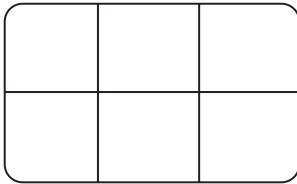
The kits pictured on these pages represent the wide variety of assortments that are available.

**The majority of the kits produced by Summit Industries are custom-made for individual customers complete with custom insert cards bearing the customer's part numbers, descriptions, and logo.**

Please contact Summit for information about the broad variety of packaging types that are available and for assistance in designing your own kits.

**Refer to the following pages for examples of Plastic Compartment Boxes that are available from stock for producing assortments for our customers.**

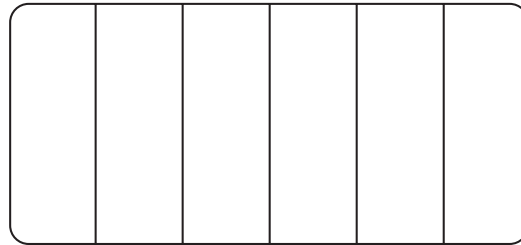
### STOCK PLASTIC BOXES



**T220 Box**

6 compartments -  $1\frac{1}{4}'' \times 1\frac{3}{8}'' \times 1''$

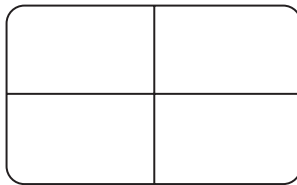
Overall Dimensions -  $4\frac{1}{2}'' \times 2\frac{3}{4}'' \times 1''$



**T211 Box**

6 compartments -  $1\frac{1}{8}'' \times 3\frac{1}{4}'' \times 1\frac{3}{16}''$

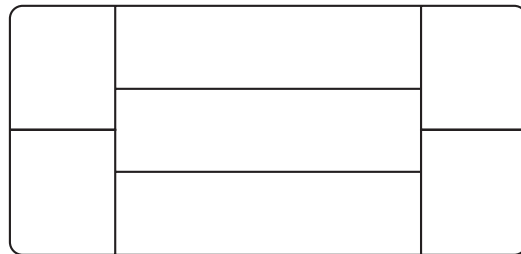
Overall Dimensions -  $6\frac{3}{4}'' \times 3\frac{1}{4}'' \times 1\frac{3}{16}''$



**T221 Box**

4 compartments -  $1\frac{1}{4}'' \times 2\frac{1}{8}'' \times 1''$

Overall Dimensions -  $4\frac{1}{2}'' \times 2\frac{3}{4}'' \times 1''$

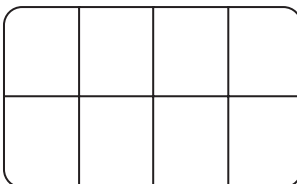


**T217 Box**

4 compartments -  $1\frac{3}{8}'' \times 1\frac{5}{8}'' \times 1\frac{3}{16}''$

3 compartments -  $1\frac{1}{8}'' \times 4'' \times 1\frac{1}{8}''$

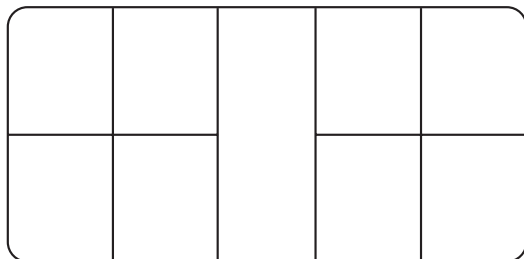
Overall Dimensions -  $6\frac{3}{4}'' \times 3\frac{1}{4}'' \times 1\frac{3}{16}''$



**T228 Box**

8 compartments -  $1\frac{1}{4}'' \times 1\frac{1}{8}'' \times 1''$

Overall Dimensions -  $4\frac{1}{2}'' \times 2\frac{3}{4}'' \times 1''$

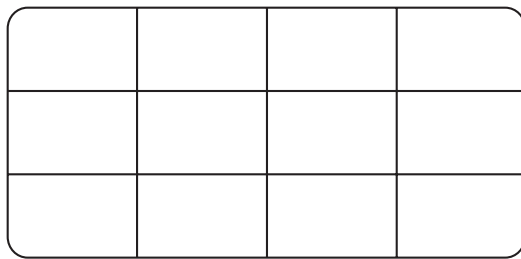


**T210 Box**

8 compartments -  $1\frac{3}{8}'' \times 1\frac{5}{8}'' \times 1\frac{3}{16}''$

1 compartment -  $1'' \times 3\frac{1}{4}'' \times 1\frac{3}{16}''$

Overall Dimensions -  $6\frac{3}{4}'' \times 3\frac{1}{4}'' \times 1\frac{3}{16}''$



**T219 Box**

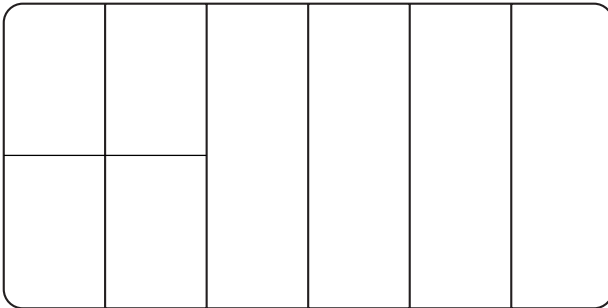
12 compartments -  $1'' \times 1\frac{5}{8}'' \times 1\frac{3}{16}''$

Overall Dimensions -  $6\frac{3}{4}'' \times 3\frac{1}{4}'' \times 1\frac{3}{16}''$

### STEPS IN DESIGNING A CUSTOM BOXED ASSORTMENT

1. Determine the **purpose** the assortment is intended to serve.
2. Work with Summit personnel to identify the **list of parts** needed to accomplish the purpose.
3. Identify a **plastic box** that will hold the parts in terms of the number and size of compartments.
4. Request that Summit produce a **prototype sample** of the kit to determine how the parts fit in the box.
5. Work with Summit to develop a **custom insert card** with logo, part numbers, and descriptions.

### STOCK PLASTIC BOXES

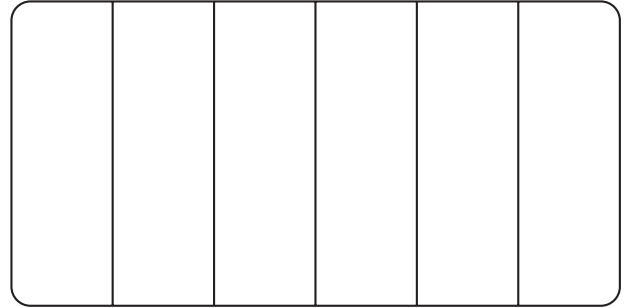


#### T200S Box

4 compartments - 1-3/8" x 2" x 1-3/16"

4 compartments - 1-3/8" x 4" x 1-3/16"

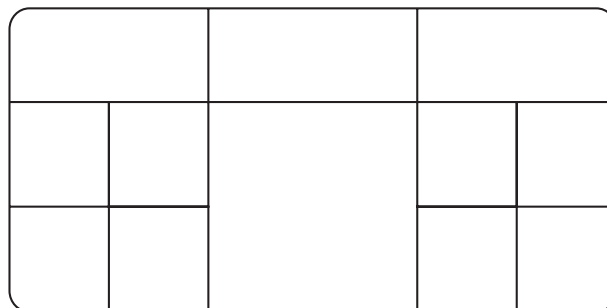
Overall Dimensions - 8" x 4" x 1-3/16"



#### T203 Box

6 compartments - 1-3/8" x 4" x 1-3/16"

Overall Dimensions - 8" x 4" x 1-3/16"



#### T204 Box

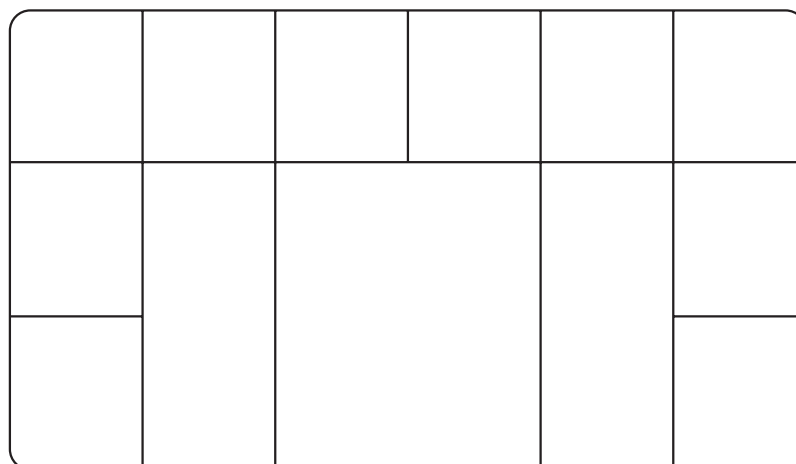
8 compartments - 1-3/8" x 1-1/4" x 1-3/16"

1 compartment - 2-5/8" x 2-5/8" x 1-3/16"

3 compartments - 2-5/8" x 1-1/4" x 1-3/16"

Overall Dimensions - 8" x 4" x 1-3/16"

## STOCK PLASTIC BOXES



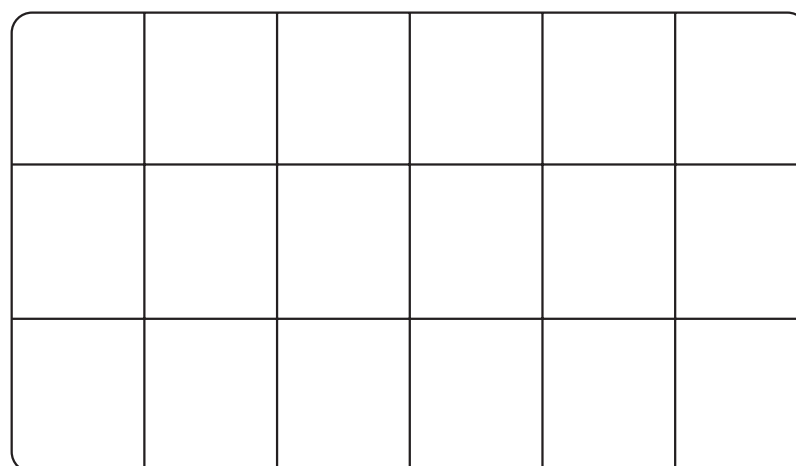
### **T613 Box**

*10 compartments - 1-5/8" x 1-7/8" x 1-1/2"*

*2 compartments - 1-5/8" x 3-3/4" x 1-1/2"*

*1 compartment - 3-1/4" x 3-3/4" x 1-1/2"*

*Overall Dimensions - 6-3/16" x 10-1/2" x 1-1/2"*

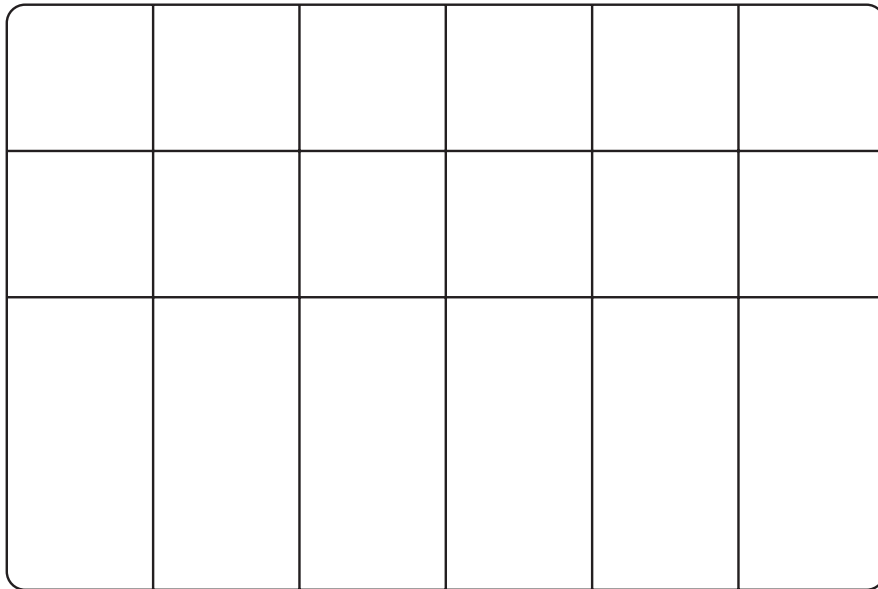


### **T618 Box**

*18 compartments - 1-5/8" x 1-7/8" x 1-1/2"*

*Overall Dimensions - 6-3/16" x 10-1/2" x 1-1/2"*

### STOCK PLASTIC BOXES

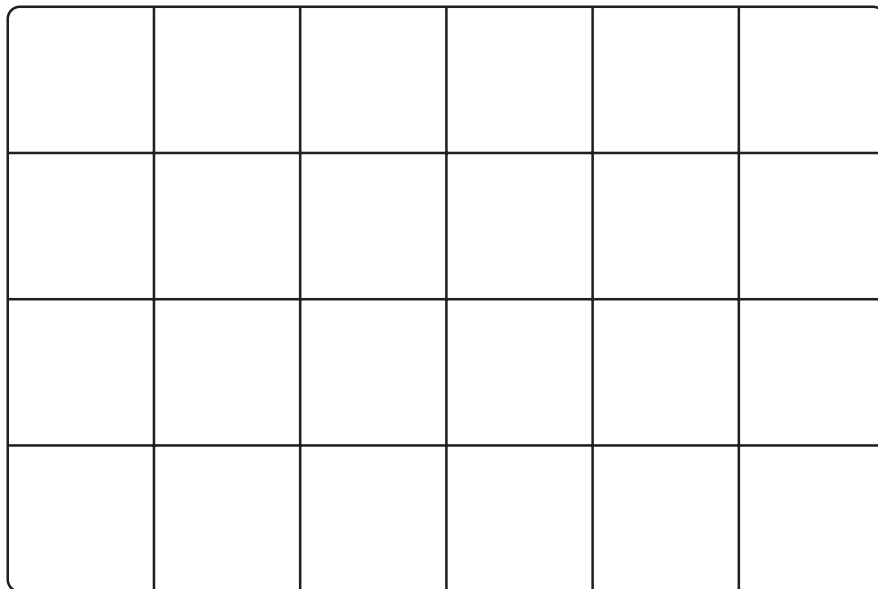


#### **T818 Box**

*12 compartments - 2" x 2" x 2"*

*6 compartments - 2" x 4" x 2"*

*Overall Dimensions - 9" x 13" x 2"*



#### **T824 Box**

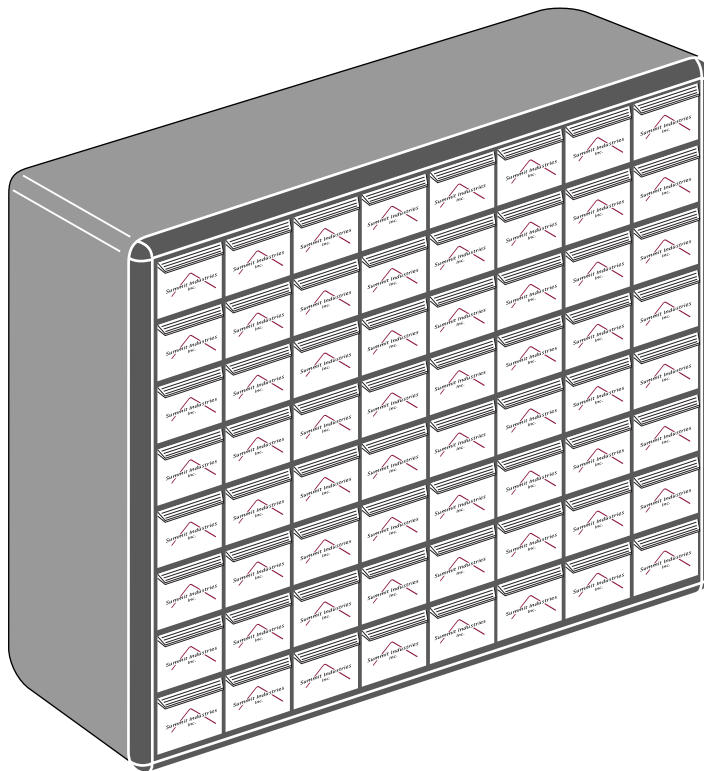
*24 compartments - 2" x 2" x 2"*

*Overall Dimensions - 9" x 13" x 2"*



### PLASTIC DRAWER CABINETS

Summit Plastic Drawer Cabinets are constructed from extremely durable resins that resist chipping and cracking in order to provide years of dependable service. Clear plastic drawers are ideal for storing small parts in easy to access, see-through bins. Summit cabinets can be designed to include an endless variety of parts such as those included in this catalog. Contact Summit sales personnel for more information.



#### **Part No. 10164 64 DRAWER CABINET**

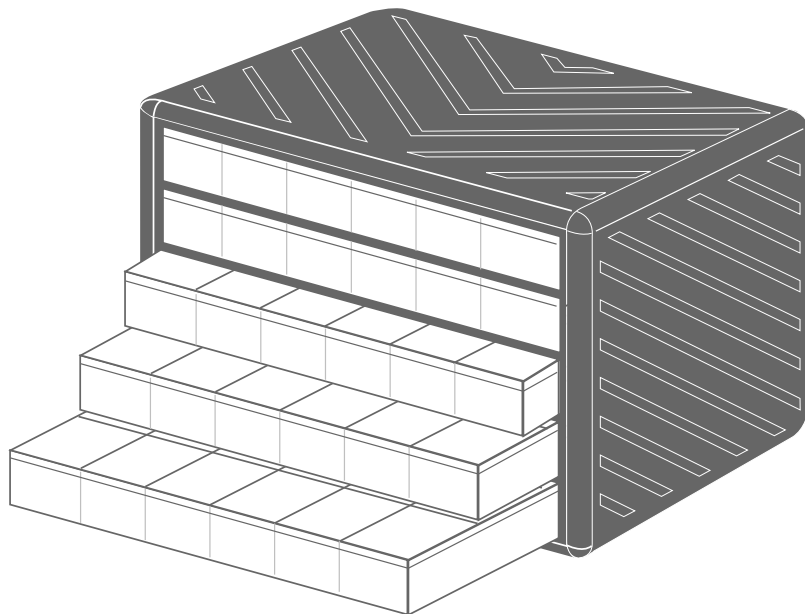
with included Drawer Dividers  
can be configured for between  
64 and 128 Compartments

Summit offers  
*Custom Parts Cabinets*  
or the  
*Summit Mobile A/C Master  
Service Assortment*  
in either cabinet style.

*Call for information!*

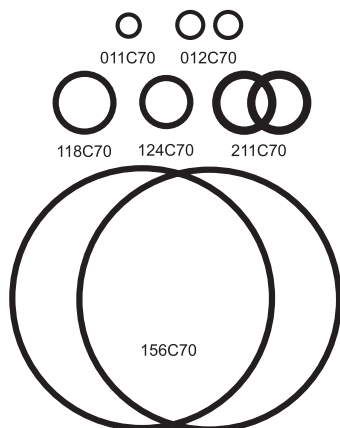
#### **Part No. 8500NT 5 DRAWER CABINET**

8500NT cabinet used with  
a combination of five of the  
T818 and T824 Boxes  
(shown on Page 47)  
creates a durable and portable  
parts cabinet containing up to  
120 individual compartments



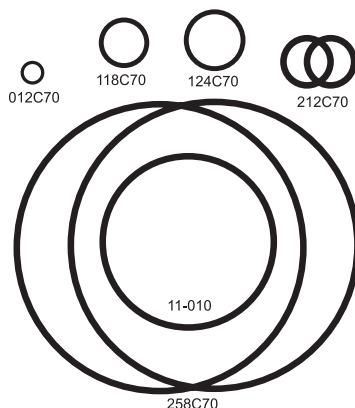
## K77-001

### GM A-6 Compressor Kit



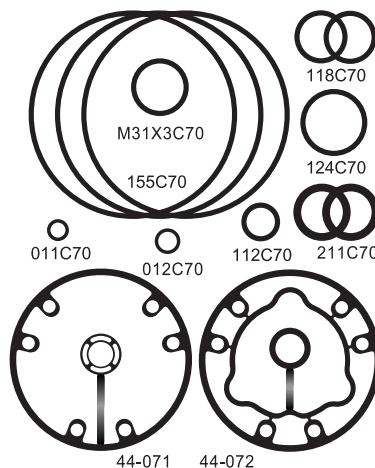
## K77-002

### GM R-4 Compressor Kit



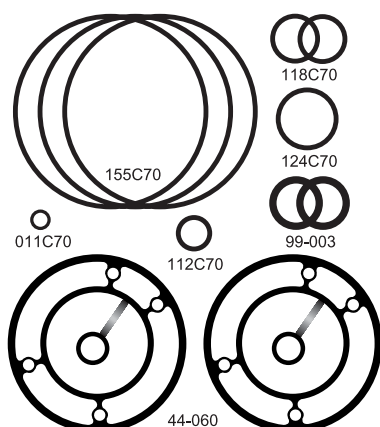
## K77-003

### GM HD-6/HT-6 Compressor Kit



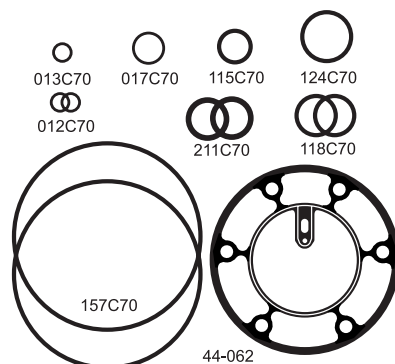
## K77-004

### GM HR-6 Compressor Kit



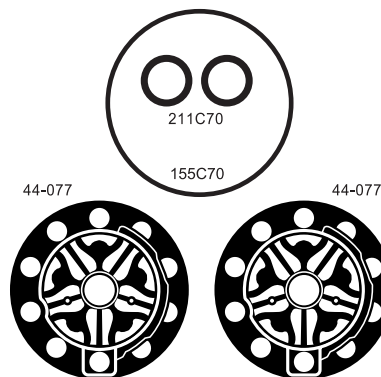
## K77-006

### GM V-5 Noise Buster Compressor Kit



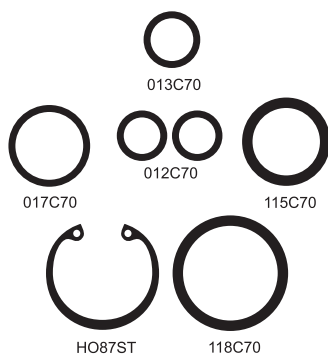
## K77-007

### Ford FS-10 Compressor Kit



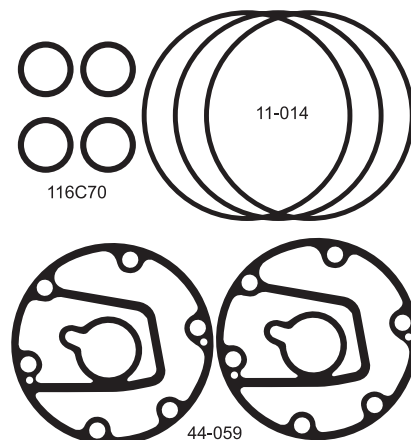
## K77-008

### GM V-5 Control Valve Kit



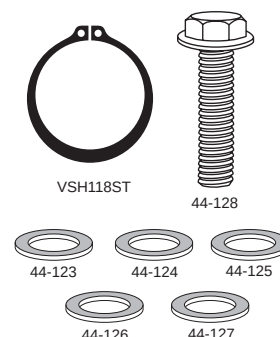
## K77-009

### Ford FS-6 Compressor Kit



## K77-010

### GM FX-15/FS-10 Clutch Kit



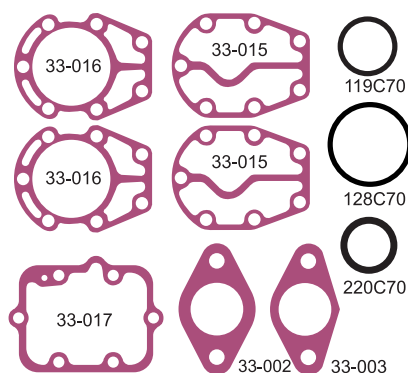
# Mobile Air Conditioning Components

- POLY BAG ASSORTMENTS -



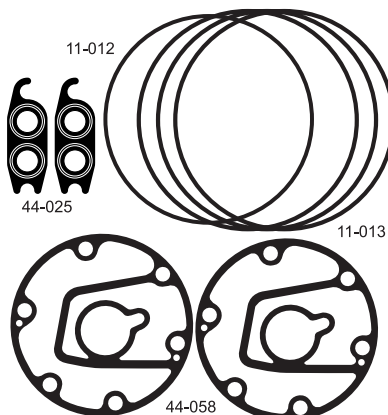
## K77-011

Chrysler RV-2 Compressor Kit



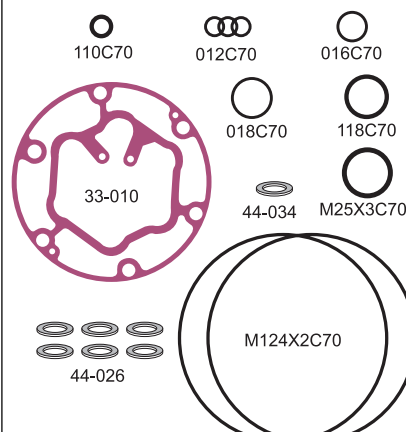
## K77-012

Chrysler C-171/A-590 Compressor Kit



## K77-013

Chrysler 6C-17 Compressor Kit



## K77-015

Chrysler 5/8" KJ Hose Gasket Kit



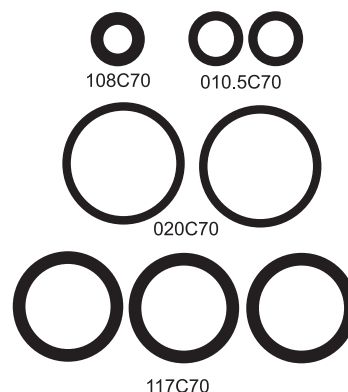
## K77-016

Chrysler 3/8" LX Drier Gasket Kit



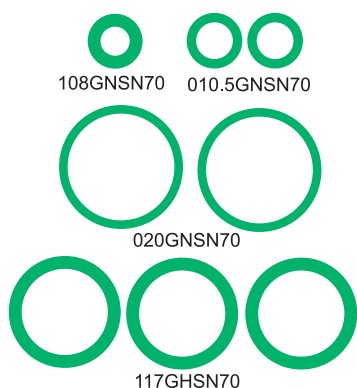
## K77-017C

Ford TXV O-Ring Kit (neoprene)



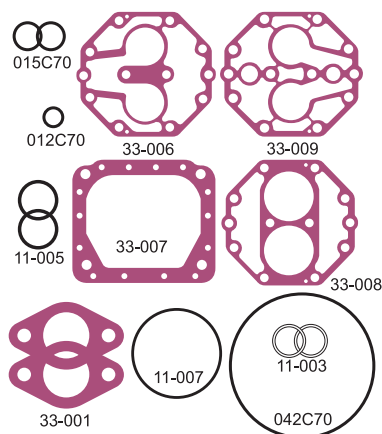
## K77-017G

Ford TXV O-Ring Kit (green HNBR)



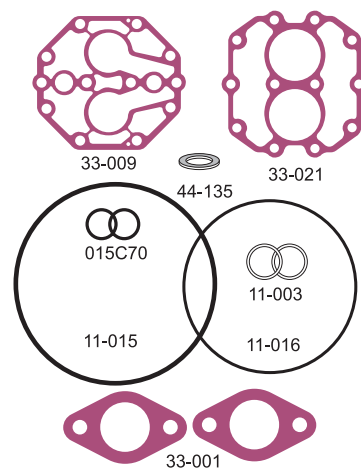
## K77-018

York 206/208/209 Gasket Kit



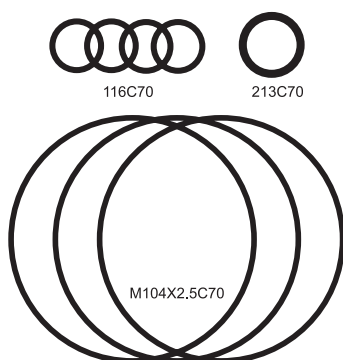
## K77-019

Tecumseh HG850/1000 Kit



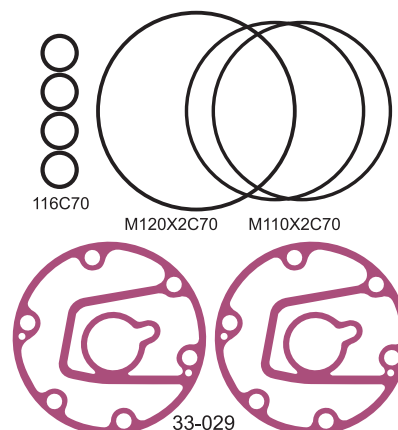
### K77-020

Nippondenso 10P-13A Kit



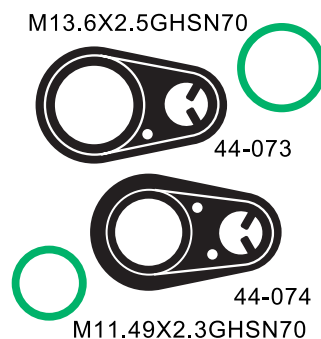
### K77-021

Nippondenso 6E-171 Kit



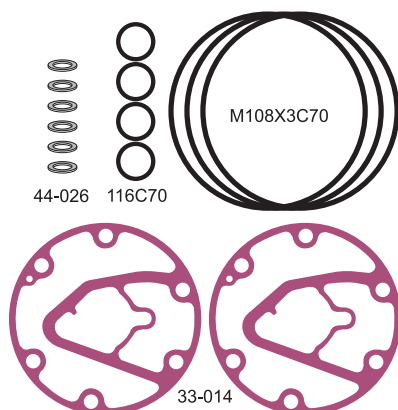
### K77-022

Nippondenso 10S S&D Kit



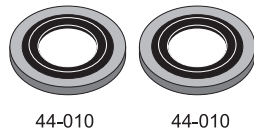
### K77-023

Nippondenso 6P-127/148 Kit



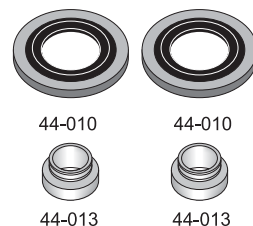
### K77-024A

GM Sealing Washer Kit



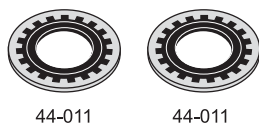
### K77-025B

GM Sealing Washer Kit



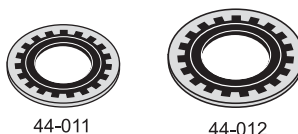
### K77-026C

GM Sealing Washer Kit



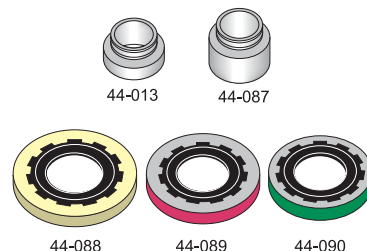
### K77-027D

GM Sealing Washer Kit



### K77-028E

GM Sealing Washer Kit



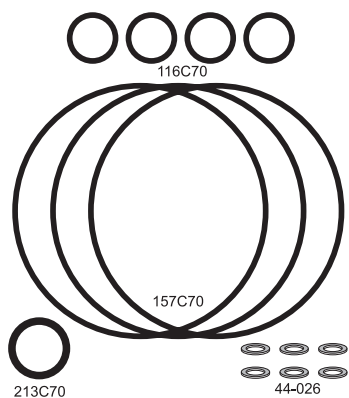
# Mobile Air Conditioning Components

- POLY BAG ASSORTMENTS -



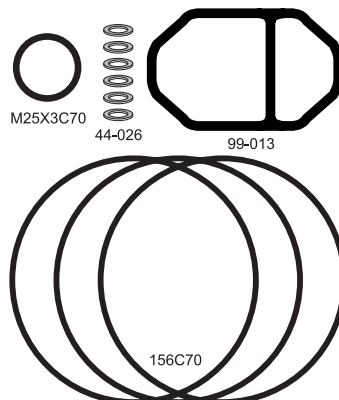
## K77-034

Nippondenso 10P-17C Kit



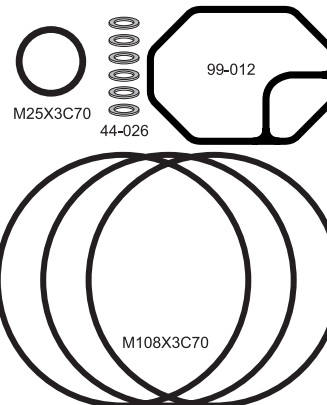
## K77-035

Nippondenso 10PA-15C Kit  
(Mercedes Benz)



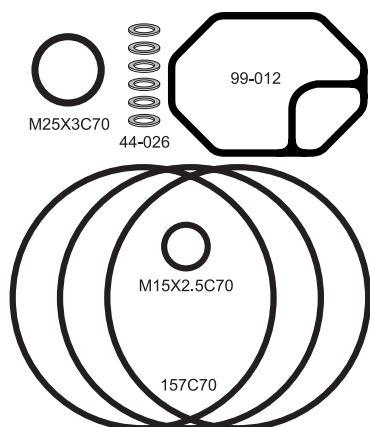
## K77-036

Nippondenso 10PA-17A Kit



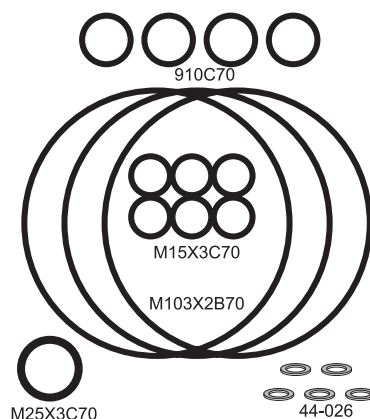
## K77-037

Nippondenso 10PA-20C Kit



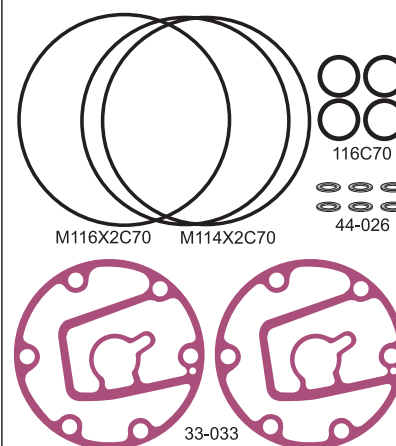
## K77-038

Nippondenso 10PO8E Kit



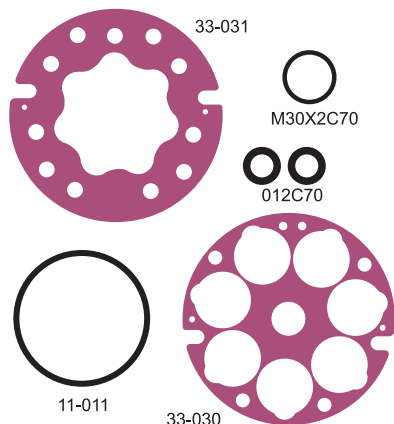
## K77-039

Nippondenso 6P-134 Kit



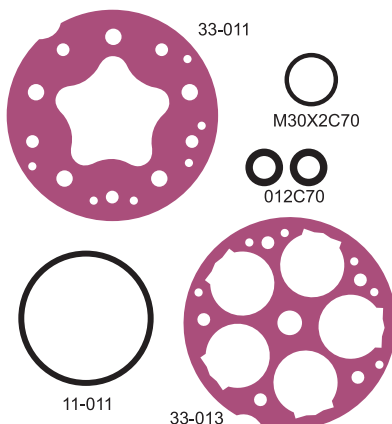
## K77-040

Sanden 708/709 Gasket Kit



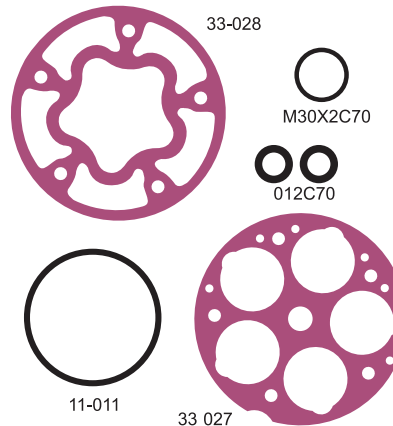
## K77-041

Sanden 507/508 Gasket Kit



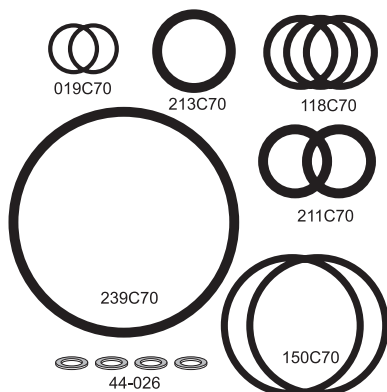
## K77-042

Sanden 507/508 Gasket Kit  
(early models)



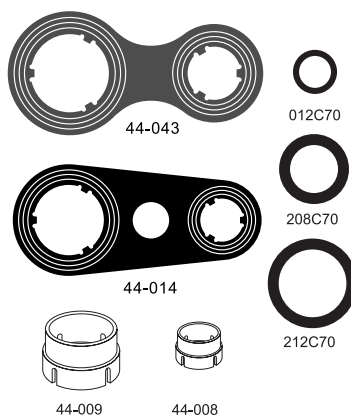
### K77-043

Seiko Seiki SE-170 Kit



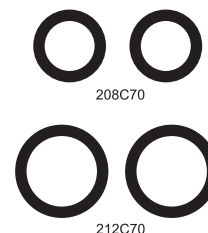
### K77-045

Chrysler TXV Gasket Kit



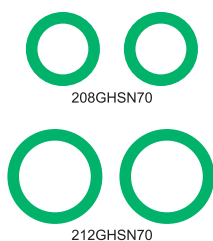
### K77-046C

Chrysler TXV O-Ring Kit  
(black neoprene)



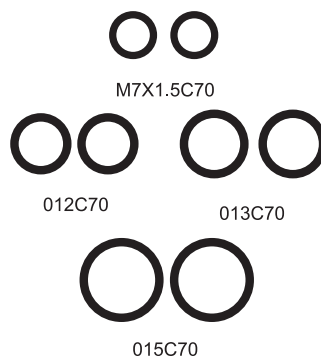
### K77-046G

Chrysler TXV O-Ring Kit  
(green HNBR)



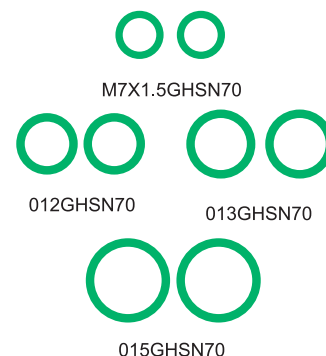
### K77-048C

Toyota Hose Coupling Kit  
(black neoprene)



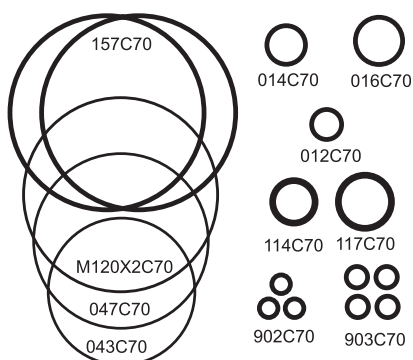
### K77-048G

Toyota Hose Coupling Kit  
(green HNBR)



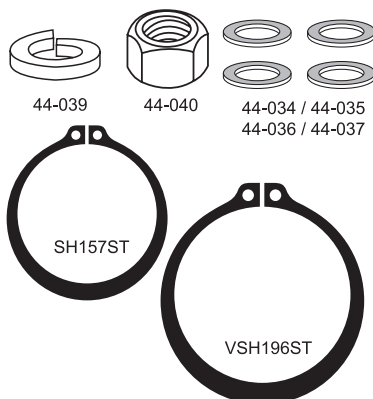
### K77-050

Mitsubishi FX-105 Kit



### K77-052

Nippondenso Clutch Kit  
(Ford/Chrysler/Imports)



### Custom Kits

Summit produces hundreds of thousands of custom bag and box kits every year.

If the kit or assortment you need is not pictured in this catalog, Summit can still make it for you.

Consult with Summit sales personnel for assistance in determining how we can be of service to you.



## CUSTOM INSTRUCTION SHEETS





### HARD PARTS, FASTENERS, AND MISCELLANEOUS FOR MOBILE A/C APPLICATIONS

| Product Description         | Page No. |
|-----------------------------|----------|
| Hard Parts & Miscellaneous  |          |
| Illustrations - Actual Size | 60       |
| Part Listing by Application | 63       |



# Mobile Air Conditioning Components

## - MISCELLANEOUS HARD PARTS -



**44-001**

Ford Springlock Coupling Garter Spring (3/8)

**44-002**

Ford Springlock Coupling Garter Spring (1/2)

**44-003**

Ford Springlock Coupling Garter Spring (5/8)

**44-004**

Ford Springlock Coupling Garter Spring (3/4)

**44-008**

Chrysler Metal Gasket Installation Pilot (sm)

**44-009**

Chrysler Metal Gasket Installation Pilot (lge)

**44-010**

GM Sealing Washer - 5/8" thick

**44-011**

GM Sealing Washer - 5/8" thin

**44-012**

GM Sealing Washer - 3/4" thin

**44-013**

GM Sealing Washer Insert Pilot - short

**44-026**

FS-6/C-171/Nippondenso Thru Bolt  
Gasket (brass)

**44-027**

GM HR-6 Thru Bolt Gasket (copper)  
(1991 & earlier)

**44-030**

Ford FS-10 Mounting Bushing (short)

**44-031**

Ford FS-10 Mounting Bushing (long)

**44-034**

Nippondenso Clutch Shim - .010 thick

**44-035**

Nippondenso Clutch Shim - .015 thick

**44-036**

Nippondenso Clutch Shim - .024 thick

**44-037**

Nippondenso Clutch Shim - .030 thick

**44-038**

Nippondenso Clutch Shim - .040 thick

**44-039**

Nippondenso Clutch Hub Lock Washer (8mm)

**44-040**

Nippondenso Clutch Hub Lock Nut (8mm)

**44-041**

GM R-4 Valve Plate Shim (aluminum)

**44-081**

Refrigeration Valve Core (standard)

**44-082**

GM Large Bore Valve Core

**44-083**

Chrysler C-171 Shaft Key

**44-084**

GM HR-6/V-5 Shaft Key

**44-087**

GM Sealing Washer Insert Pilot - long

**44-088**

GM Sealing Washer - yellow

**44-089**

GM Sealing Washer - red

**44-090**

GM Sealing Washer - green



# Mobile Air Conditioning Components

## - MISCELLANEOUS HARD PARTS -

**44-091**

GM A-6/R-4 Shaft Key

**44-095**

M8 Valve Core - 8mm

**44-096**

M10 Valve Core - 10mm

**44-097**

R-134a Retrofit Adaptor - straight low side

**44-098**

R-134a Retrofit Adaptor - straight high 1/4"

**44-099**

R-134a Retrofit Adaptor - straight high 3/16"

**44-100**

R-134a Retrofit Adaptor - 90 degree low side

**44-101**

R-134a Retrofit Adaptor - 90 degree high 1/4"

**44-102**

R-134a Retrofit Adaptor - 90 degree high 3/16"

**44-103**

GM OEM R-134a Fitting - 15mm male threads

**44-104**

GM OEM R-134a Fitting - 12mm male threads

**44-105**

R-134a Retrofit Adaptor - GM Primary Fitting

**44-106**

Ford OEM R-134a Fitting - female

**44-107**

Ford OEM R-134a Fitting - male high side

**See CAPS & PLUGS for Retrofit Adaptor  
Caps and Termination Caps**

**44-113**

Nippondenso Valve Core - JRA standard

**44-114**

GM VIR Low Pressure Valve Core

**44-115**

Valve Core Depressor - standard 1/4"

**44-116**

Valve Core Depressor - plastic molded

**44-117**

Valve Core Depressor - brass press-in

**44-118**

Valve Core Depressor - 3/16"

**44-122**

Chrysler C-171 S & D Gasket Pilot

**44-123**

Ford FS-10 Clutch Shim - .015 thick

**44-124**

Ford FS-10 Clutch Shim - .020 thick

**44-125**

Ford FS-10 Clutch Shim - .034 thick

**44-126**

Ford FS-10 Clutch Shim - .050 thick

**44-127**

Ford FS-10 Clutch Shim - .060 thick

**44-128**

FS-10/Import Clutch Bolt - 6mm X 20mm

**44-128S**

Import Clutch/Shipping Bolt - 6mm x 16mm

**44-135**

Tecumseh Oil Plug Gasket (copper)

# Mobile Air Conditioning Components

## - MISCELLANEOUS HARD PARTS -



**44-136**

Import Compressor Clutch Shim  
(.513 ID .865 OD .022 thick)

**44-137**

Import Compressor Clutch Shim  
(.513 ID .865 OD .050 thick)

**44-138**

Import Compressor Clutch Shim  
(.325 ID .500 OD .019 thick)

**44-139**

Import Compressor Clutch Shim  
(.325 ID .500 OD .035 thick)

**44-140**

Import Compressor Clutch Shim  
(.325 ID .500 OD .004 thick)

**44-141**

Sanden Shaft Key

**44-142**

Sanden Shaft Key (small)

**44-144**

Nippondenso Shaft Key (short)

**44-150**

GM No. 6 "Thin line" Sealing Washer (8mm)

**44-151**

GM No. 8 "Thin line" Sealing Washer (11mm)

**44-152**

GM No. 10 "Thin line" Sealing Washer (15mm)

**44-153**

GM No. 12 "Thin line" Sealing Washer (17mm)

**44-154**

GM A-6 / R-4 Shaft Lock Nut

**44-155**

R-4 Compressor Pulley Rim Bolt

**44-156**

GM A-6/R-4 Shaft Spacer

**44-157**

GM R-4 Belleville Washer

**44-158**

GM R-4 Rear Crank Washer

**44-159**

GM R-4 Tab Washer

**44-160**

GM Switchport Plug (.470 long - step top)

**44-161**

GM Switchport Plug (.430 long - mushroom top)

**44-164**

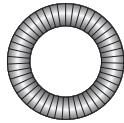
GM Switchport Plug (inverted)

**44-165**

GM HR-6 Shaft Lock Nut

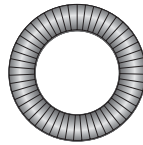
**44-001**

Springlock Garter Spring - No. 6



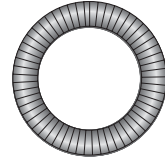
**44-002**

Springlock Garter Spring - No. 8



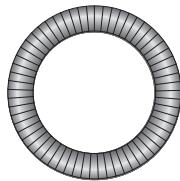
**44-003**

Springlock Garter Spring - No. 10



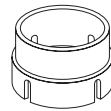
**44-004**

Springlock Garter Spring - No. 12



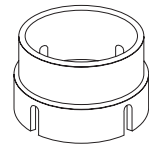
**44-008**

Chrysler Metal Gasket Pilot (sm.)



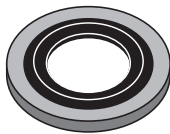
**44-009**

Chrysler Metal Gasket Pilot (lg.)



**44-010**

GM Sealing Washer -  
5/8" thick



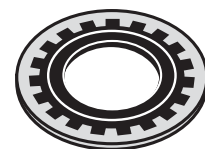
**44-011**

GM/Chrysler Sealing Washer -  
5/8" thin



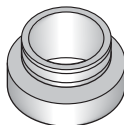
**44-012**

GM Sealing Washer -  
3/4" thin



**44-013**

GM Sealing Washer Pilot - short



**44-026**

FS-6 / C-171 / A-590 / Nippondenso  
Thru Bolt gasket - brass



**44-026A - 44-027**

GM Compressor Thru Bolt Gasket

**44-026A** - DA-6/HR-6/HD-6  
.285 I.D. brass (7mm)

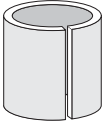
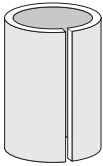
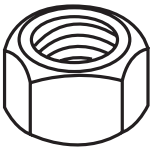
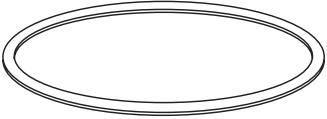
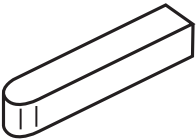
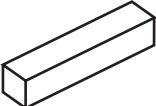
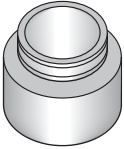
**44-027** - V-5/DA-6/HR-6  
.252 I.D. copper (6mm)



# Mobile Air Conditioning Components

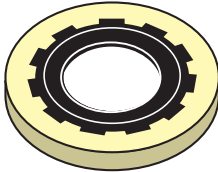
## - MISCELLANEOUS HARD PARTS -



|                                                                                                                                                                        |                                                                                                                                                                   |                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>44-030</b><br>Ford FS-10/FX-15<br>Mounting Bushing (short)<br>                     | <b>44-031</b><br>Ford FS-10/FX-15<br>Mounting Bushing (long)<br>                 | <b>44-034 - 44-038</b><br>Nippondenso Clutch Shim<br>44-034 - .010 thick<br>44-035 - .015 thick<br>44-036 - .024 thick<br>44-037 - .030 thick<br>44-038 - .040 thick<br> |
| <b>44-039</b><br>Nippondenso 8mm Clutch Hub<br>Lock Washer<br>                        | <b>44-040</b><br>Nippondenso 8mm (Chrysler/Ford/Sanden) Clutch Hub Lock Nut<br> | <b>44-041 - 44-212</b><br>44-041 - GM R-4 Valve Plate Shim (aluminum - for 10 cu. in)<br>44-212 - GM R-4 Valve Plate Shim (steel - for 11 cu. in)<br>                   |
| <b>44-053</b><br>GM R-4 Compressor Piston Rivet<br>GM HD/HU Comp. Piston Rivet<br>  | <b>44-081</b><br>Refrigeration Valve Core (std.)<br>                           | <b>44-082</b><br>GM Large Bore Valve Core<br>                                                                                                                          |
| <b>44-083</b><br>Chrysler C-171/A590, Ford FS-6, Nip. 6E/6P/TV Shaft Key (long)<br> | <b>44-084</b><br>GM HR-6/V-5 Shaft Key<br>                                     | <b>44-087</b><br>GM Sealing Washer Insert Pilot - long<br>                                                                                                             |

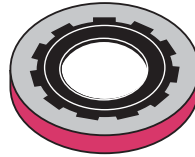
**44-088**

GM Sealing Washer - yellow



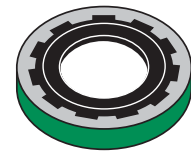
**44-089**

GM Sealing Washer - red



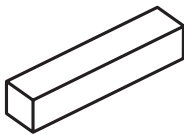
**44-090**

GM Sealing Washer - green



**44-091**

GM A-6 / R-4 Shaft Key



**44-095**

M8 Valve Core - 8mm



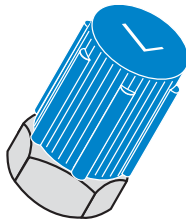
**44-096**

M10 Valve Core - 10mm



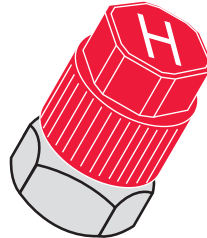
**44-097**

R-134a Retrofit Adaptor - steel  
straight low side (13mm)



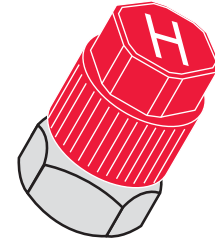
**44-098**

R-134a Retrofit Adaptor - steel  
straight high 1/4" (16mm)



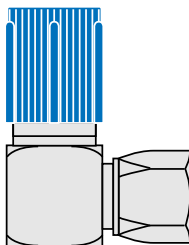
**44-099**

R-134a Retrofit Adaptor - steel  
straight high 3/16" (16mm)



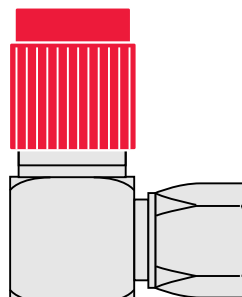
**44-100**

R-134a Retrofit Adaptor - steel  
90 degree low side (16mm)



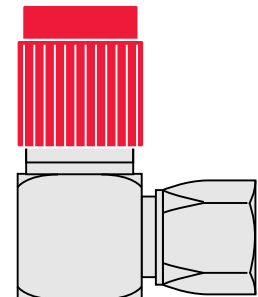
**44-101**

R-134a Retrofit Adaptor - steel  
90 degree high 1/4" (16mm)



**44-102**

R-134a Retrofit Adaptor - steel  
90 degree high 3/16" (16mm)



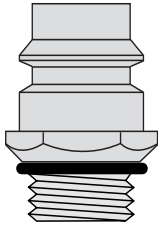
# Mobile Air Conditioning Components

## - MISCELLANEOUS HARD PARTS -



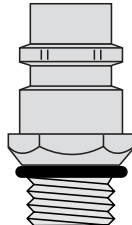
**44-103**

GM R-134a OEM Fitting - (alum.)  
High Side 16 mm - Aeroquip  
(15mm base threads)



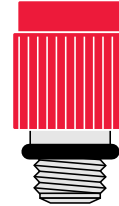
**44-104**

GM R-134a OEM Fitting - (alum.)  
Low Side 13 mm - Aeroquip  
(12mm base threads)



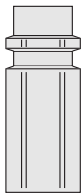
**44-105**

R-134a Retrofit Adaptor - (alum.)  
GM Primary (male)  
(7/16-20 base threads)



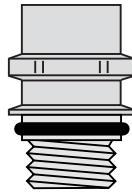
**44-106**

Ford OEM R-134a Fitting - (alum.)  
Low Side - 13mm Female  
(7/16-20 base threads)



**44-107**

Chry/Ford/GM OEM R-134a Fitting  
(alum.) High Side - 16mm  
(12mm base threads)



**44-113**

Nippondenso Valve Core - JRA



**44-114**

GM VIR Low Pressure Valve Core



**44-115**

Valve Core Depressor -  
standard 1/4"



**44-116**

Valve Core Depressor -  
Molded Plastic



**44-117**

Valve Core Depressor -  
Brass Press-in



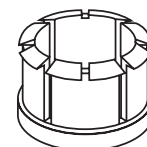
**44-118**

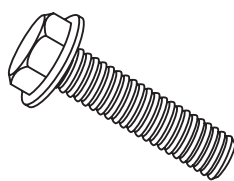
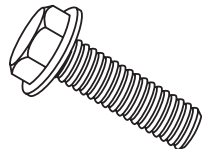
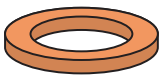
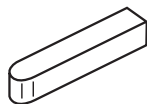
Valve Core Depressor - 3/16"



**44-122**

Chrysler C-171 S & D Gasket Pilot



|                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                      |                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>44-123 - 44-127</div> <div>Ford FS-10/FX-15 Clutch Shim</div> <div><div>44-123 - .015 thick</div><div>44-124 - .020 thick</div><div>44-125 - .034 thick</div><div>44-126 - .050 thick</div><div>44-127 - .060 thick</div></div> <div></div> | <div>44-128</div> <div>FS-10/FX-15/Import Clutch Bolt<br/>(6mm x 20mm)</div> <div></div>                                                                            | <div>44-128S</div> <div>Import Clutch &amp; Shipping Bolt<br/>(6mm x 16mm)</div> <div></div>                                                                                                      |                                                                                                                                                                           |
| <div>44-135</div> <div>Tecumseh Oil Plug Gasket (copper)</div> <div></div>                                                                                                                                                                       | <div>44-136 - 44-137</div> <div>Import Clutch Shim<br/>(.513 ID, .865 OD)</div> <div><div>44-136 - .022 thick</div><div>44-137 - .050 thick</div></div> <div></div> | <div>44-138 - 44-140</div> <div>Import Clutch Shim<br/>(.325 ID, .500 OD)</div> <div><div>44-138 - .019 thick</div><div>44-139 - .035 thick</div><div>44-140 - .040 thick</div></div> <div></div> |                                                                                                                                                                           |
| <div>44-141</div> <div>Sanden 507/508/510, SD708/709<br/>SD5H/SD7H Shaft Key</div> <div></div>                                                                                                                                                 | <div>44-142</div> <div>Sanden SD505/507/575 Mini<br/>Shaft Key (small)</div> <div></div>                                                                          | <div>44-144</div> <div>Nip./Chry. Shaft Key (short)</div> <div></div>                                                                                                                           |                                                                                                                                                                           |
| <div>44-150</div> <div>GM Slimline Sealing Washer<br/>No. 6 (8mm)</div> <div></div>                                                                                                                                                            | <div>44-151</div> <div>GM Slimline Sealing Washer<br/>No. 8 (11mm) Chrysler/Opel</div> <div></div>                                                                | <div>44-152</div> <div>GM Slimline Sealing Washer<br/>No. 10 (15mm) Chrysler/Opel</div> <div></div>                                                                                              | <div>44-153</div> <div>GM Slimline Sealing Washer<br/>No.12 (17mm)</div> <div></div> |



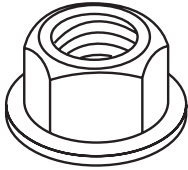
# Mobile Air Conditioning Components

## - MISCELLANEOUS HARD PARTS -



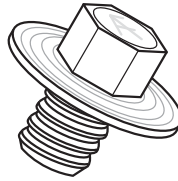
**44-154**

GM A-6/R-4 Flange Lock Nut



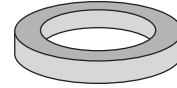
**44-155**

R-4 Pulley Rim Bolt



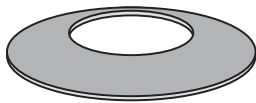
**44-156**

GM A-6/R-4 Clutch Hub Spacer



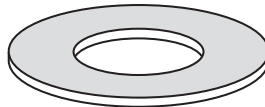
**44-157**

GM R-4 Belleville Washer



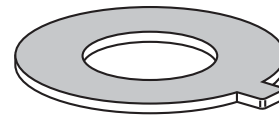
**44-158**

GM R-4 Rear Crank Washer



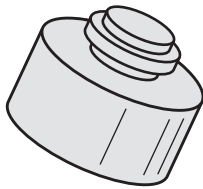
**44-159**

GM R-4 Tab Washer



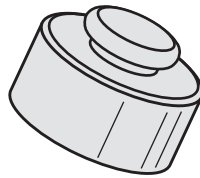
**44-160**

GM Switchport Plug - Long



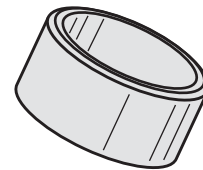
**44-161**

GM/Import Switchport Plug - Std.



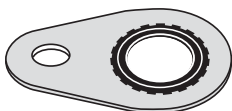
**44-164**

GM Switchport Plug - Inverted



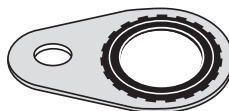
**44-203**

Dodge Ram Pickup Sealing Washer  
8.0L & 8.3L Hose Assembly



**44-204**

Dodge Ram Pickup Sealing Washer  
3.7L & 5.7L Hose Assembly



**44-218**

GM R-4 (lt. wt.)/DA-6/HR-6/HD/  
HT/H6/V-5/V-7 Shaft Lock Nut





# Mobile Air Conditioning Components

## - MISCELLANEOUS HARD PARTS -

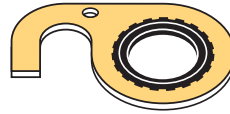
**44-205**

Dodge "Hook" Sealing Washer -  
Suction Port (OE is Silver)



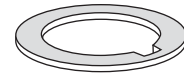
**44-206**

Dodge "Hook" Sealing Washer -  
Discharge Port (OE is Gold)  
(replacement may be silver)



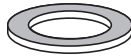
**44-230 - 44-235**

Sanden SD7 Slotted  
Clutch Hub Shim  
44-230 - .021 thk.  
44-235 - .050 thk.



**44-231**

Sanden TR70/TR90 Clutch Shim -  
.030 thick



**44-232 - 44-233**

Ford FS-10/FX-15 Clutch Shim -  
44-232 - .010 thk.  
44-233 - .030 thk.



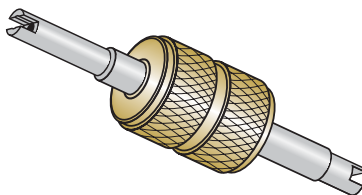
**44-234**

Seiko Seiki/Keihin Clutch Shim -  
.030 thick



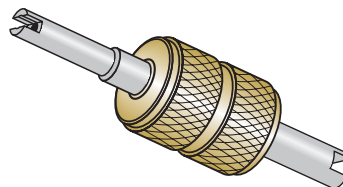
**44-250**

Valve Core Removal Tool -  
Standard and Large Bore



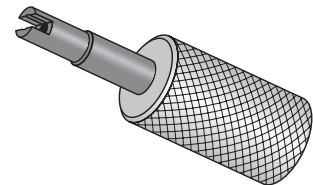
**44-251**

Valve Core Removal Tool -  
Standard and JRA



**44-252**

Valve Core Removal Tool -  
Large Bore



### Availability

Summit Industries, Inc. supplies an endless variety of items that aren't pictured in this catalog. We are proud to serve a diverse range of industries from aviation to petroleum exploration; from electric motor to computer manufacturing, to name just a few. Our sources the world over enable us to locate hard to find manufactured items and to have products custom-made to our customer's exacting specifications.

***At Summit Industries, Customer Service is our #1 Product!***



**Summit**  
Industries, Inc.

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## **CAPS, PLUGS & SHIPPING CLOSURES FOR MOBILE A/C APPLICATIONS**

| <b>Product Description</b>   | <b>Page No.</b> |
|------------------------------|-----------------|
| GM Compressor Shipping Plugs | 72              |
| Ford FS-10 Shipping Plug     | 72              |
| Compressor Shipping Plates   | 73              |
| Plastic Caps                 | 74              |

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# Mobile Air Conditioning Components

- CAPS, PLUGS & SHIPPING CLOSURES -



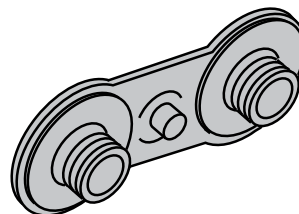
**44-130**

GM Compressor Shipping Plug -  
5/8 x 5/8 O-Ring - Black thermoplastic



**44-131**

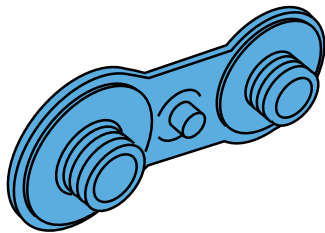
GM Compressor Shipping Plug -  
5/8 x 5/8 Flat - Gray thermoplastic



Custom colors  
available with  
**SPECIAL ORDER**

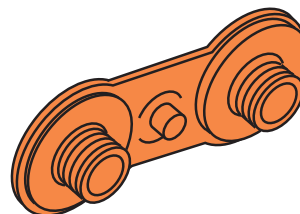
**44-132**

GM Compressor Shipping Plug  
5/8 x 3/4 Flat - Blue thermoplastic



**44-133**

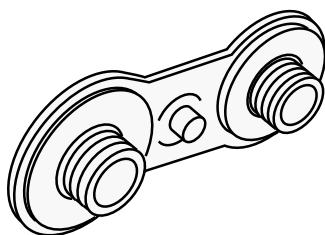
GM Compressor Shipping Plug  
5/8 x 5/8 Step - Orange thermoplastic



Custom Shipping  
Plugs  
**MADE TO ORDER**

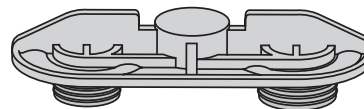
**44-134**

GM Compressor Shipping Plug  
5/8 x 3/4 Step - White thermoplastic



**44-145**

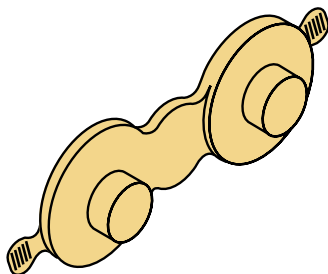
Ford FS-10/FX-15 Compressor Shipping Plug  
All models - Gray thermoplastic



**Summit Exclusive Design!**

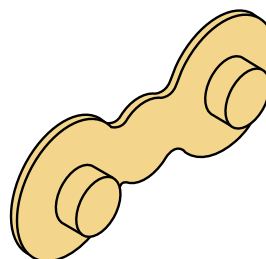
**44-162**

GM Compressor Shipping Plug  
Generic 5/8 x 5/8 Step - neutral plastic



**44-163**

GM Compressor Shipping Plug  
Generic 5/8 x 5/8 Flat - neutral plastic





# Mobile Air Conditioning Components

## - CAPS, PLUGS & SHIPPING CLOSURES -

**22-230**

GM Compressor Shipping Plate  
Steel w/ Integral Rubber Pad  
- 5/8 x 5/8 O-Ring Type  
Permits needle charging



**Summit Exclusive Item!**

**22-231**

GM Compressor Shipping Plate  
Steel w/ Integral Rubber Pads  
- 5/8 x 5/8 Stepped Type  
Permits needle charging



**Summit Exclusive Item!**

**22-232**

GM Compressor Shipping Plate  
Steel w/ Integral Rubber Pads  
- 5/8 x 3/4 Flat Type  
Permits needle charging



**Summit Exclusive Item!**

**22-233**

GM Compressor Shipping Plate  
Steel w/ Integral Rubber Pads  
- 5/8 x 3/4 Stepped Type  
Permits needle charging



**Summit Exclusive Item!**

**22-234**

GM Compressor Shipping Plate  
Steel w/ Integral Rubber Pad  
- 5/8 x 5/8 Flat Type  
Permits needle charging



**Summit Exclusive Item!**

Can be used  
in place of  
22-230

**22-209**

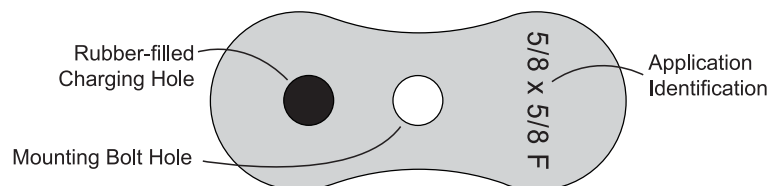
Nip. 10PA Compressor Shipping Plate  
Steel w/ Integral Rubber Pad  
Permits needle charging



**Summit Exclusive Item!**

### FUNCTIONALITY AND IDENTIFICATION

Part nos. 22-230 through 22-234 are stamped to specify their applications. This enables identification of rear head configuration even with the shipping plate installed. All models on this page are molded from self-sealing Butyl rubber and can be charged with a needle.



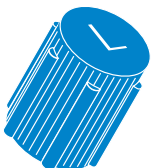
# Mobile Air Conditioning Components

- CAPS, PLUGS & SHIPPING CLOSURES -



**44-108**

Low Side Access Port Cap  
- 13mm - blue plastic



**44-109**

High Side Access Port Cap  
- 16mm - red plastic



**44-110**

High Side Access Port Cap  
- Aeroquip - red plastic



**44-111**

Retrofit Termination Cap  
- 1/4" Aluminum w/ thread lock



**44-112**

Retrofit Termination Cap  
- 3/16" Aluminum w/ thread lock



**44-119**

Access Port Cap  
- 1/4" - black plastic



**44-120**

Access Port Cap  
- 3/16" - black plastic



**44-121**

Access Port Cap  
- 1/2" ACME thread - black



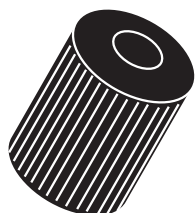
**44-183**

GM/Ford Coil Terminal Protector  
- soft yellow plastic



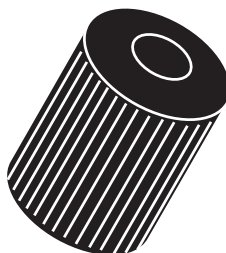
**44-165**

Low Side Access Port Cap -  
- 13mm Eaton - black plastic



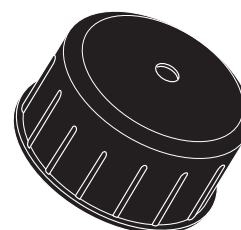
**44-166**

High Side Access Port Cap -  
- 16mm Eaton - black plastic



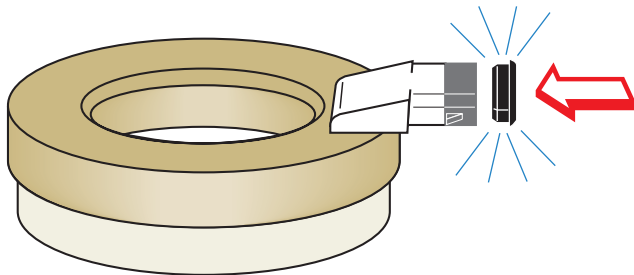
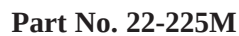
**44-174**

York/Tecumseh Rotolock Cap  
- black plastic w/ rubber seal



22-225M

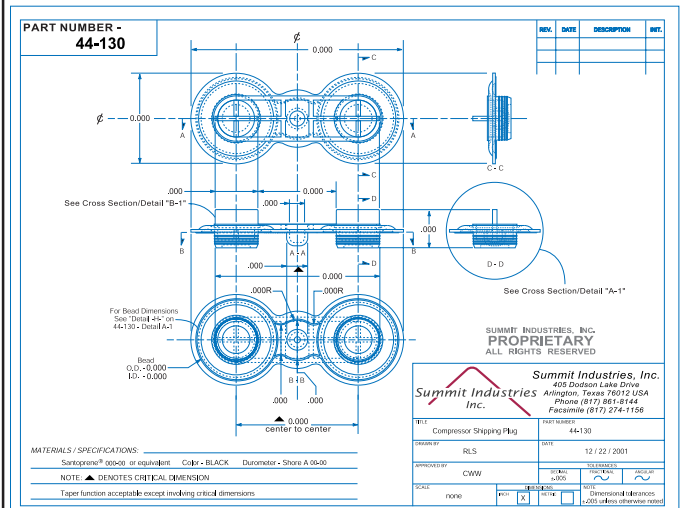
## GM 8mm Pin Coil Protector Plug



## Summit Exclusive Item!

- **Perfect Fit!**
- **Durable, Solid Black Rubber**
- **Protects Terminals & Housing**
- **Shields from Paint, Dirt & Water**

Summit Industries is a Custom Molding Specialist. Let us bring your concept to life by designing and producing tooling to make the exact part your application calls for. Our experienced in-house design, engineering and art department can help you take your project from idea to design to prototype to completed product.





# Mobile Air Conditioning Components

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## VALVE CORES AND TOOLS FOR MOBILE A/C APPLICATIONS

| Product Description      | Page No. |
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| Valve Cores & Depressors | 78       |
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| Valve Core Tools         | 79       |
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# Mobile Air Conditioning Components

## - VALVE CORES & RELATED ITEMS -



**44-081**

Refrigeration Valve Core (std.)



**44-082**

GM Large Bore Valve Core



**44-095**

M8 Valve Core - M8



**44-096**

M10 Valve Core - M10



**44-111**

Retrofit Termination Cap - 1/4"



**44-112**

Retrofit Termination Cap - 3/16"



**44-113**

Nippondenso Valve Core - JRA



**44-114**

GM VIR Low Pressure Valve Core



**44-115**

Valve Core Depressor -  
standard 1/4"



**44-116**

Valve Core Depressor -  
Molded Plastic



**44-117**

Valve Core Depressor -  
Brass Press-in



**44-118**

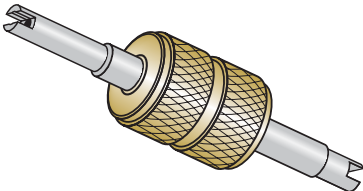
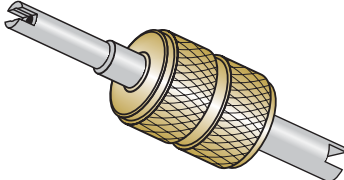
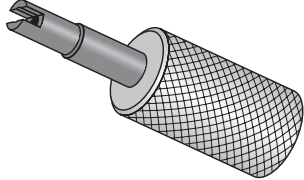
Valve Core Depressor - 3/16"





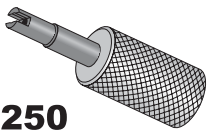
# Mobile Air Conditioning Components

## - VALVE CORES & RELATED ITEMS -

|                                                                                                                                                                   |                                                                                                                                                             |                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>44-119</b><br>Access Port Cap - 1/4" plastic<br>                              | <b>44-120</b><br>Access Port Cap - 3/16" plastic<br>                       | <b>44-121</b><br>Access Port Cap - 1/2" plastic<br>ACME thread<br>  |
| <b>44-250</b><br>Valve Core Install/Removal Tool<br>Standard and Large Bore<br> | <b>44-251</b><br>Valve Core Install/Removal Tool<br>Standard and JRA<br> | <b>44-252</b><br>Valve Core Install/Removal Tool<br>Large Bore<br> |

### K88-012

#### Valve Core, Valve Core Tool and Access Port Cap Assortment

|                                                                                                      |                                                                                                      |                                                                                                       |  |                                                                                                        |                                                                                                        |
|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <br><b>44-250</b> |                                                                                                      | <br><b>44-250</b> |  | <br><b>44-250</b> |                                                                                                        |
| <br><b>44-081</b> | <br><b>44-082</b> | <br><b>44-108</b>  |  | <br><b>44-095</b> | <br><b>44-096</b> |
| <br><b>44-113</b> | <br><b>44-114</b> | <br><b>44-109</b> |  | <br><b>44-119</b> | <br><b>44-120</b> |

Contains -

1 each Valve Core Tool, 5 each of 44-081, 2 each of all other Items

Please call for assistance in designing *Custom Plastic Box Assortments* made from ANY COMBINATION of the components found in this catalog.





## SEALING WASHERS BULK & PACKAGED FOR MOBILE A/C APPLICATIONS

| Product Description        | Page No. |
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| GM Sealing Washers         | 82       |
| Dodge Sealing Washers      | 83       |
| Sealing Washer Assortments | 83       |

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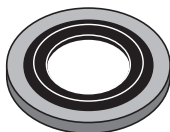
# Mobile Air Conditioning Components

## - SEALING WASHERS -



**44-010**

GM Sealing Washer - 5/8" thick



**44-011**

GM Sealing Washer - 5/8" thin

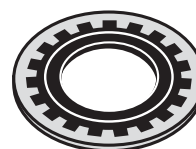
Chrysler Sealing Washer

P/N 4761737AC



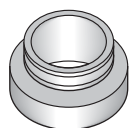
**44-012**

GM Sealing Washer - 3/4" thin



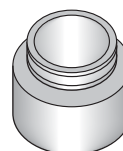
**44-013**

GM Sealing Washer Pilot - short



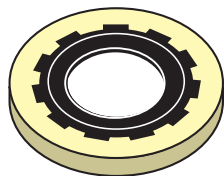
**44-087**

GM Sealing Washer Insert Pilot - long



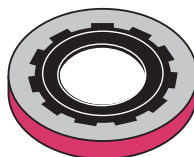
**44-088**

GM Sealing Washer - yellow



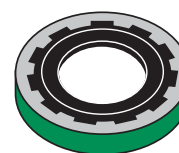
**44-089**

GM Sealing Washer - red



**44-090**

GM Sealing Washer - green



**44-150**

GM Slimline Sealing Washer

No. 6 (8mm)

Chrysler OE P/N 5161787



**44-151**

GM Slimline Sealing Washer

No. 8 (11mm) Chrysler/Opel



**44-152**

GM Slimline Sealing Washer

No. 10 (15mm) Chrysler/Opel



**44-153**

GM Slimline Sealing Washer

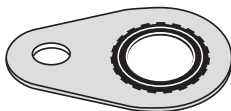
No. 12 (17mm)

Chrysler OE P/N 5161784AA



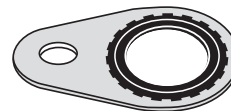
**44-203**

Dodge Ram Pickup Sealing Washer  
8.0L & 8.3L Hose Assembly  
OE. No. 5290571AB



**44-204**

Dodge Ram Pickup Sealing Washer  
3.7L & 5.7L Hose Assembly  
OE No. 55057044AC



**44-205**

Dodge "Hook" Sealing Washer -  
Suction Port (replaces Silver)



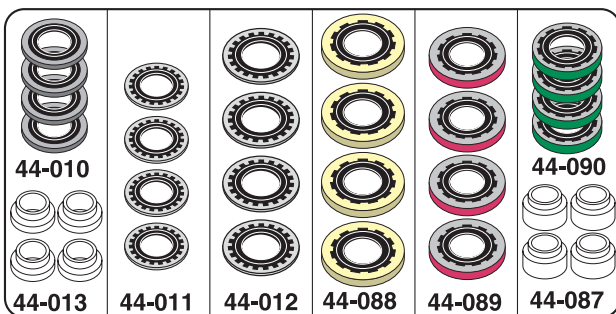
**44-206**

Dodge "Hook" Sealing Washer -  
Discharge Port (replaces Gold)



**K88-006**

**GM Professional Sealing Washer  
and Insert Pilot Assortment**

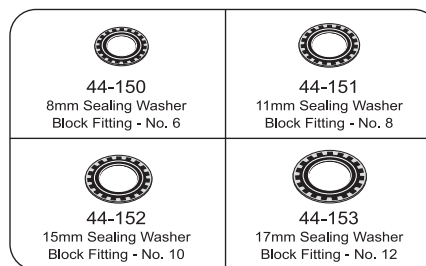


**Contains  
4 of each item as shown**

**Contains Sealing Washers for  
AC System Service and Retrofit**

**K88-008**

**GM Slimline Sealing Washer  
Assortment**



**Contains  
10 of each item as shown**



# Mobile Air Conditioning Components

## - SEALING WASHERS -



### 44-238

Chrysler Sealing Washer - No. 6 (3/8" ID)

OE No. 05161788

(Rubber is black, replaces OE red)

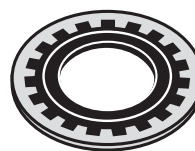


### 44-239

Chrysler Sealing Washer - No. 10 (11/16" ID)

OE No. 05073619AA

(Rubber is black, replaces OE red)



### IMPORTANT NOTES



## ORIFICE TUBES

### FOR MOBILE A/C APPLICATIONS

| Product Description           | Page No. |
|-------------------------------|----------|
| GM Orifice Tubes              | 86       |
| Ford Orifice Tubes            | 87       |
| Chrysler Orifice Tubes        | 87       |
| Carded/Packaged Orifice Tubes | 88       |
| Orifice Tube Assortments      | 89       |

## O R I F I C E T U B E S

Pages

**86**

-

**89**

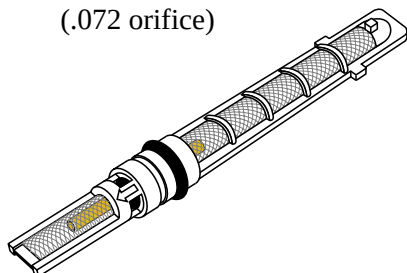
# Mobile Air Conditioning Components

## - ORIFICE TUBES -



### OT-GM-W

GM Orifice Tube - White  
w/ Black Neoprene O-Ring  
(.072 orifice)



Audi 302-272-679  
Delco 15-5151, 15-3611  
GM 3033879  
GM 3033919  
Jaguar/Volvo w/ GM System  
Opel/Vauxhall/RollsRoyce

### OT-GM-BW

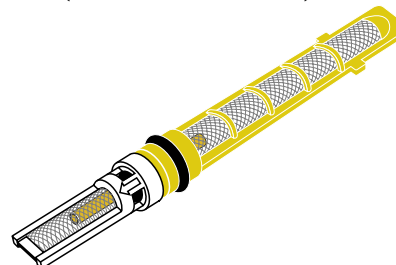
GM Orifice Tube - Blk. & White  
w/ Black Neoprene O-Ring  
(.072 orifice)  
(OE may be Red)



GM 3096068  
Delco 15-5378

### OT-GM-Y

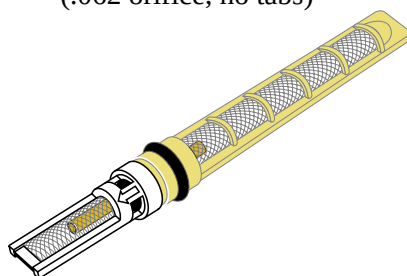
Volvo Orifice Tube - Yellow  
w/ Black HNBR O-Ring  
(.062 orifice, w/ tabs)



Volvo 1324829-9  
GM 52473660  
GM 52460909  
Delco 15-3079/15-30973

### OT-GM-YW

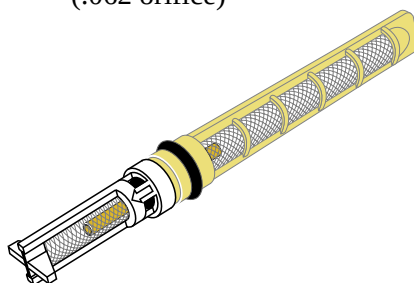
GM Orifice Tube - Yellow/White  
w/ Black Neoprene O-Ring  
(.062 orifice, no tabs)



GM 25671803  
Delco 15-5653

### OT-GM-YW T-Top

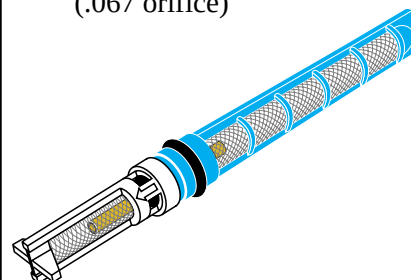
GM Orifice Tube - Yellow/White  
T-Top w/ Black Neoprene O-Ring  
(.062 orifice)



GM 52477004  
Delco 15-5612

### OT-GM-BLW

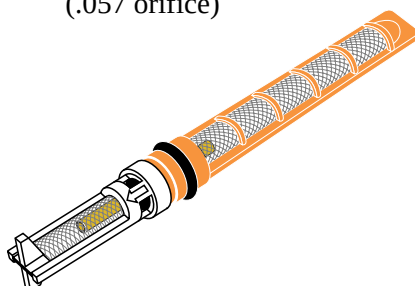
GM Orifice Tube - Blue/White  
T-Top w/ Black Neoprene O-Ring  
(.067 orifice)



GM 15097129

### OT-GM-OW-T

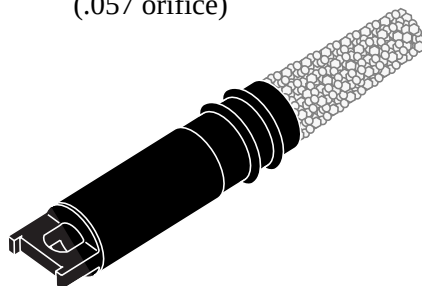
GM Orifice Tube - Orange T-Top  
w/ Black Neoprene O-Ring  
(.057 orifice)



GM 52476901  
Geo 52486385  
Delco 15-31134

### OT-GM-BW PPOT

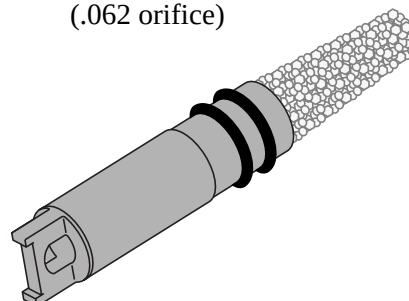
GM PPOT Orifice Tube - Black  
w/ Black Neoprene O-Rings  
(.057 orifice)



GM 10413367

### OT-GM-GW PPOT

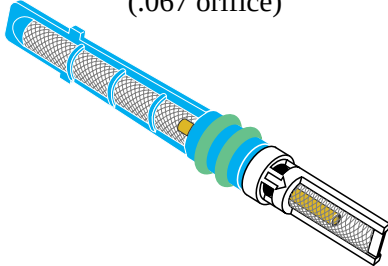
GM PPOT Orifice Tube - Gray  
w/ Black Neoprene O-Rings  
(.062 orifice)



GM 10411717  
Delco 15-31053

### OT-F-B

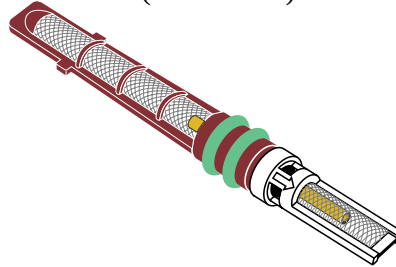
Ford Orifice Tube - Blue  
w/ Green HNBR O-Rings  
(.067 orifice)



|            |                |
|------------|----------------|
| Ford       | E0VY-19D990-A  |
| Ford       | E1FZ-19D990-A  |
| Ford       | F58Z-19D990-AB |
| Ford       | F3XY-19C990-A  |
| Motorcraft | YG-322/YG-345  |
| Nissan     | 1993 & up      |

### OT-F-BN

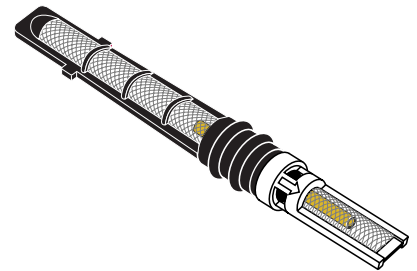
Ford Orifice Tube - Brown  
w/ Green HNBR O-Rings  
(.047 orifice)



|            |               |
|------------|---------------|
| Ford       | E09Z-19D990-A |
| Ford       | E69Z-19D990-A |
| Ford       | F39Z-19D990-A |
| Motorcraft | YG-320        |
| Nissan     | 1994 & up     |

### OT-F-BW

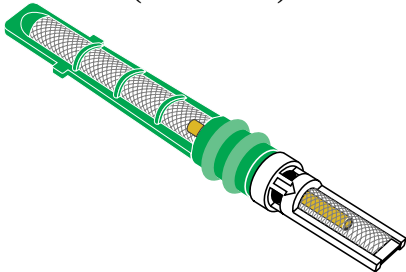
Ford Orifice Tube - Black/White  
w/ Black HNBR O-Rings  
(.072 orifice)



|            |                |
|------------|----------------|
| Ford       | XC4Z-19D990-AA |
| Motorcraft | YG-380         |

### OT-F-G

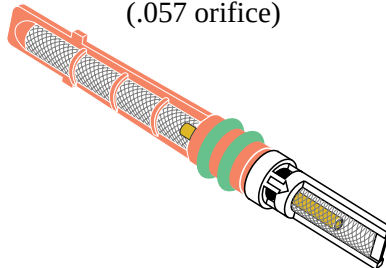
Ford Orifice Tube - Green  
w/ Green HNBR O-Rings  
(.052 orifice)



|            |                |
|------------|----------------|
| Ford       | F42Z-19D990-A  |
| Ford       | F09Z-19D990-A  |
| Ford       | E69Z-19D990-B  |
| Motorcraft | YG-319, YG-347 |

### OT-F-O

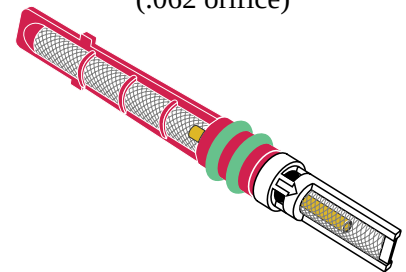
Ford Orifice Tube - Orange  
w/ Green HNBR O-Rings  
(.057 orifice)



|            |                |
|------------|----------------|
| Ford       | F5DZ-19D990-AB |
| Ford       | E8TZ-19D990-A  |
| Ford       | E8UZ-19D990-A  |
| Hyundai    | 1990- & up     |
| Motorcraft | YG-323, YG-342 |
| Nissan     | 1994 & up      |

### OT-F-R

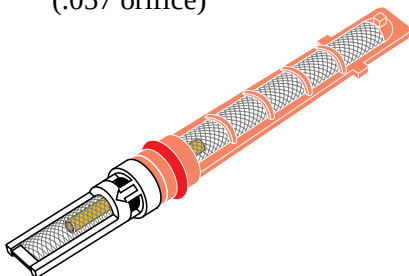
Ford Orifice Tube - Red  
w/ Green HNBR O-Rings  
(.062 orifice)



|            |                |
|------------|----------------|
| Ford       | E69Z-19D990-A  |
| Ford       | F4UZ-19D990-A  |
| Ford       | F5UZ-19D990-AB |
| Mazda      | 1991 & up      |
| Motorcraft | YG-321, YG-346 |

### OT-C-OW

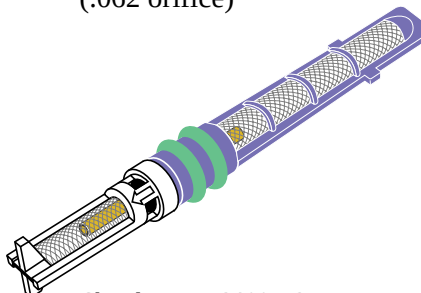
Chrysler Orifice - Orange/White  
w/ Red HNBR O-Ring  
(.057 orifice)



Chrysler 2004 & up

### OT-C-P

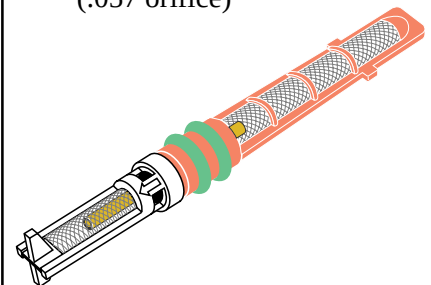
Chrysler Orifice Tube - Purple  
T-top w/ Green HNBR O-Rings  
(.062 orifice)



|               |           |
|---------------|-----------|
| Chrysler      | 36002432  |
| Dodge         | 55036182  |
| International | 8548044C1 |
| Jeep          | 36002432  |
| Caterpillar   | various   |

### OT-C-W

Chrysler Orifice Tube - Orange  
T-Top w/ Green HNBR O-Rings  
(.057 orifice)



Chrysler 2004 & up

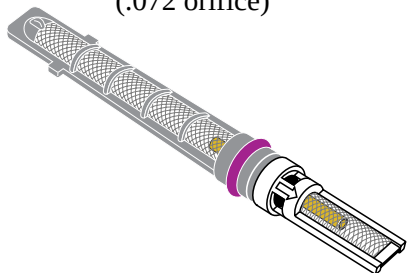
# Mobile Air Conditioning Components

## - ORIFICE TUBES -



### OT-A-GW

Audi/VW Orifice Tube - Gray / White  
w/ Purple HNBR O-Ring  
(.072 orifice)

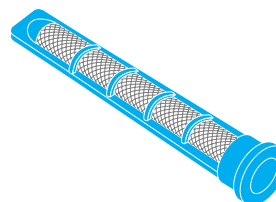


Audi/VW

443-271-191A

### OT-GM-FIL

GM 1/2" Inline Filter Screen Tube  
Blue with no O-Rings - no orifice



GM

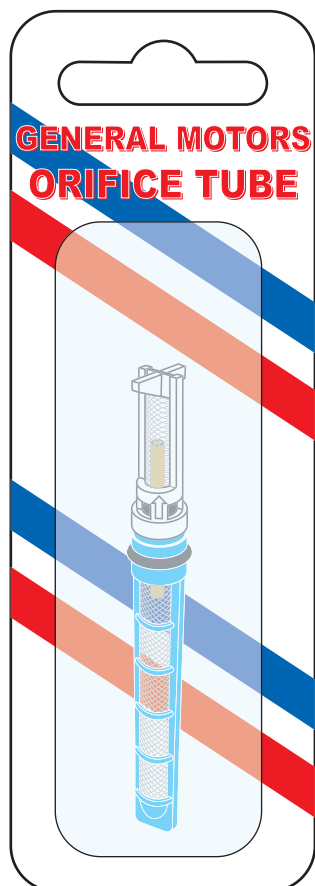
2000 & up

**CUSTOM KITS AVAILABLE**

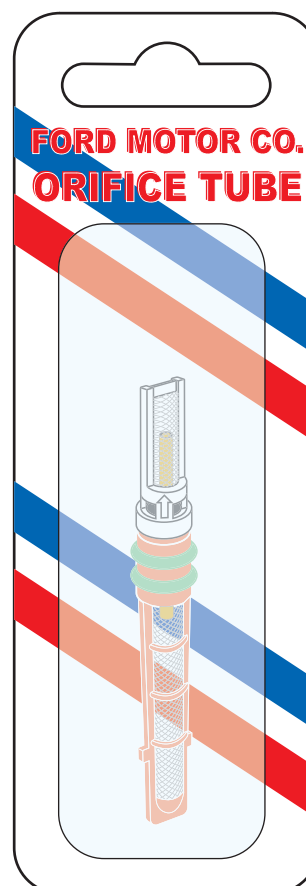
As with all products offered by Summit Industries,  
we offer

**CUSTOM PACKAGING**  
of  
**ORIFICE TUBES**  
per your specification.

Custom Insert Carding and  
**PRIVATE BRANDING**  
are available options.



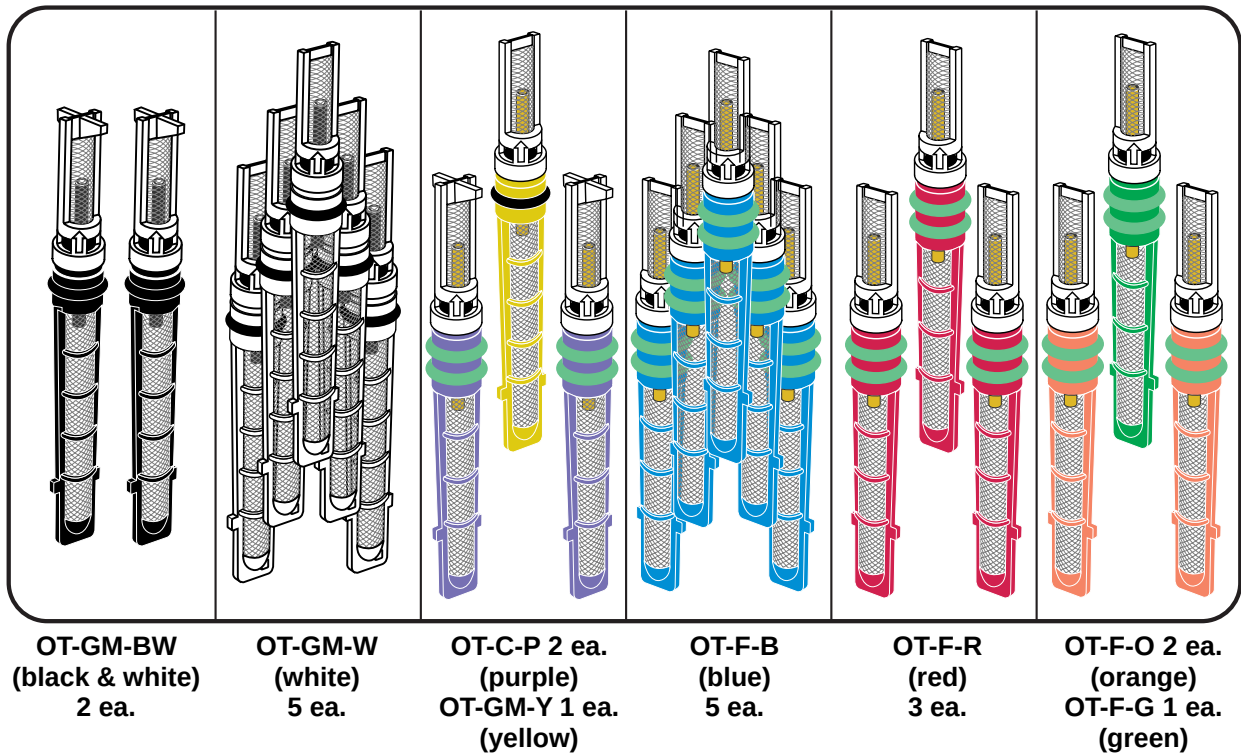
Example of Generic Blister Packaging  
Clamshell Also Available



Example of Generic Blister Packaging  
Clamshell Also Available

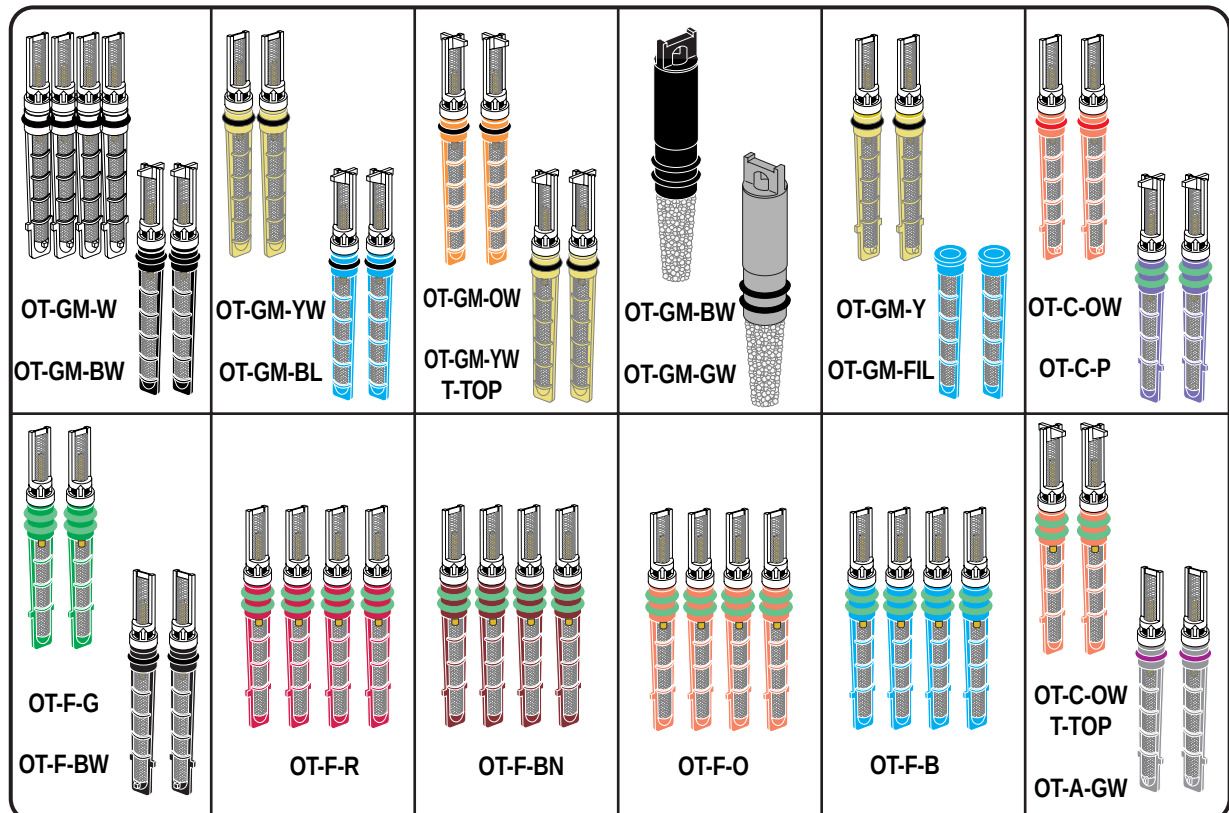
**K88-011**

### Orifice Tube Master Service Assortment



**K88-066**

### Orifice Tube Professional Service Assortment



[illegible]



## **GASKETS METAL & FIBER FOR MOBILE A/C APPLICATIONS**

| <b>Product Description</b>  | <b>Page No.</b> |
|-----------------------------|-----------------|
| Rubber Coated Metal Gaskets | 92              |
| Fiber Gaskets               | 95              |
| Water Outlet Gaskets        | 100             |



# Mobile Air Conditioning Components

## - RUBBER COATED METAL GASKETS -



**44-005**

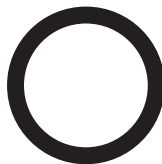
GM Metal Backup Gasket for  
Dual O-Ring Connection (1/2")



(actual size)

**44-006**

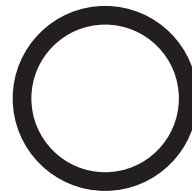
GM Metal Backup Gasket for  
Dual O-Ring Connection (5/8")



(actual size)

**44-007**

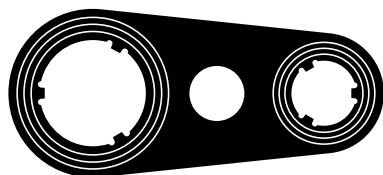
GM Metal Backup Gasket for  
Dual O-Ring Connection (3/4")



(actual size)

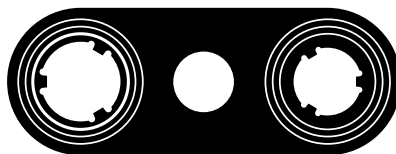
**44-014**

Chrysler Expansion Valve Suction  
Line Manifold Side Gasket



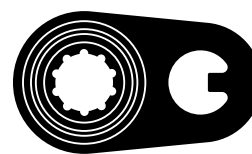
**44-015**

Chrysler Condenser Block Gasket



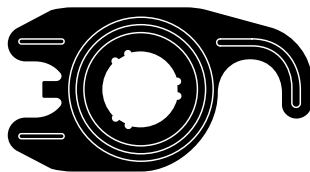
**44-016**

Chrysler Receiver Drier Block  
Gasket (thru 92 - with large port)



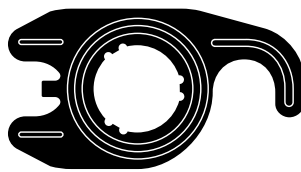
**44-017**

Chrysler 6C-17 Service Port  
Gasket (1990-89 with 1/2" I.D.)



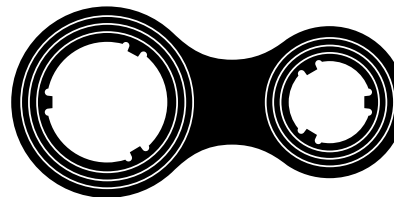
**44-018**

Chrysler 6C-17 Service Port  
Gasket (1989 with 5/8" I.D.)



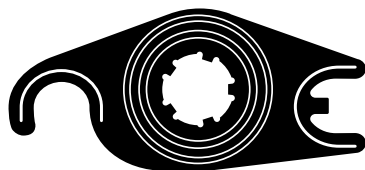
**44-019**

Chrysler Block Expansion Valve  
Gasket (evaporator side)



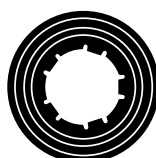
**44-023**

Chrysler RV-2/Chrysler Sanden  
Compressor Discharge Gasket



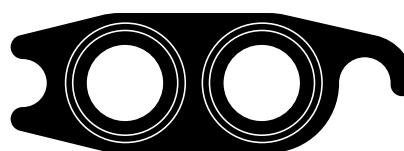
**44-024**

Chrysler Sanden Compressor  
Discharge Gasket



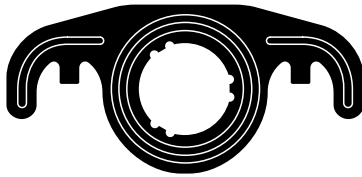
**44-025**

Chrysler C-171 Suction &  
Discharge Port Gasket



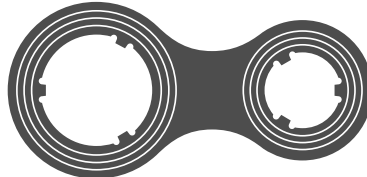
**44-042**

Chrysler 6C-17 Suction & Discharge gasket (91 & newer)



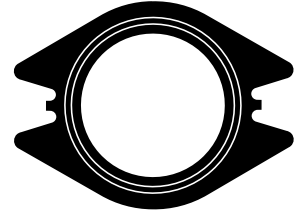
**44-043**

Chrysler Block Expansion Valve Gasket (evaporator side - foam)



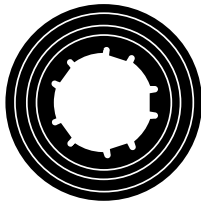
**44-044**

Chrysler RV-2 Suction Side Gasket (alternate)



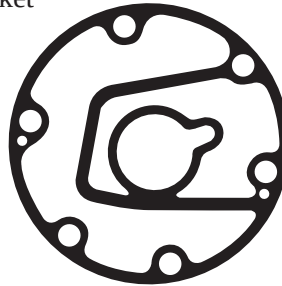
**44-045**

Chrysler RV-2 Suction Side Gasket



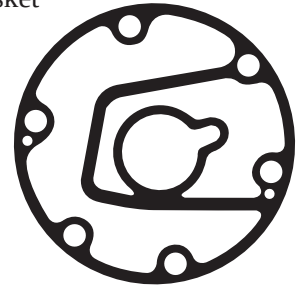
**44-058**

Chrysler C-171 Cylinder Head Gasket



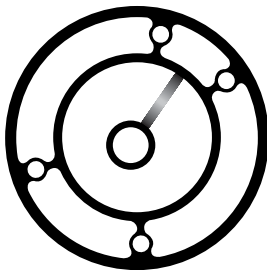
**44-059**

Ford FS-6 Cylinder Head Gasket



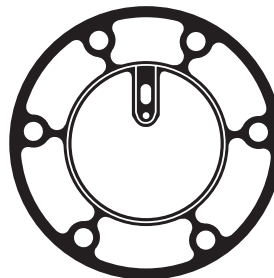
**44-060**

GM DA-6/HR-6 Head Gasket  
(6.90mm dia. holes)



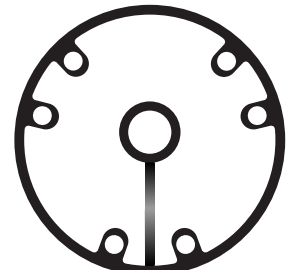
**44-062**

GM V-5 "Noise Buster" Cylinder Head Gasket



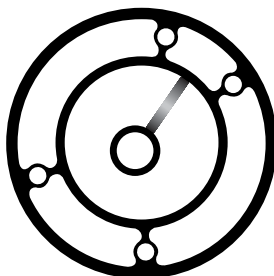
**44-065**

GM HU-6 Front Head Gasket  
(large O.D. shaft)



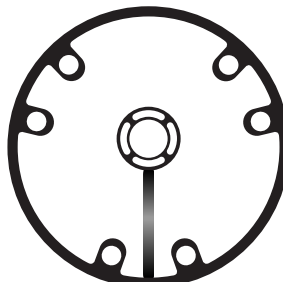
**44-070**

GM HR-6 Cylinder Head Gasket  
(7.80mm dia. holes)



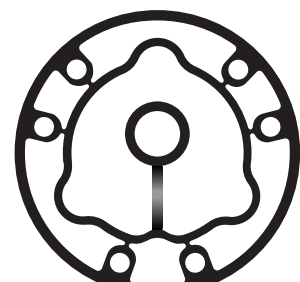
**44-071**

GM HR-6/HR-6HE/HD-6/HT-6  
(MD) Fr. Head Gasket (93 & up)



**44-072**

GM HR-6/HR-6HE/HD-6/HT-6  
(MD) Rr. Head Gasket (93 & up)



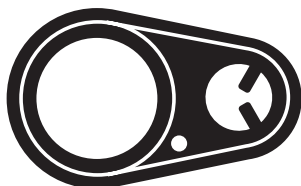
# Mobile Air Conditioning Components

## - RUBBER COATED METAL GASKETS -



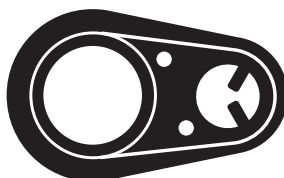
**44-073**

Nippondenso 10S Suction Port  
Gasket



**44-074**

Nippondenso 10S Discharge Port  
Gasket



**44-075**

Chrysler 5/8" KJ Hose Fitting  
Gasket



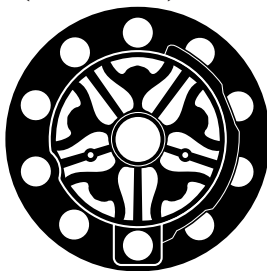
**44-076**

Chrysler 3/8" LX Liquid Line to  
Receiver Drier Gasket



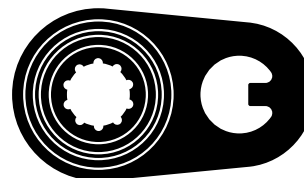
**44-077**

Ford FS-10 Compressor Head  
Gasket (93 & newer)



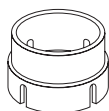
**44-080**

Chrysler Condenser Block Gasket



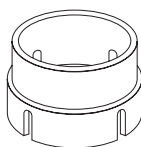
**44-008**

Chrysler Metal Gasket Pilot (sm.)



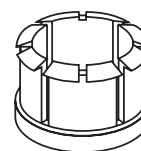
**44-009**

Chrysler Metal Gasket Pilot (lg.)



**44-122**

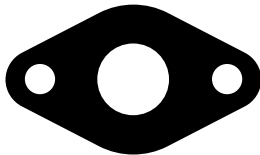
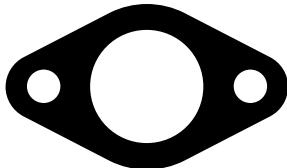
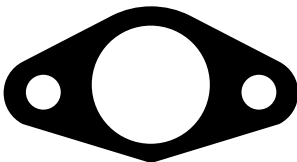
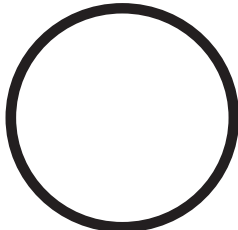
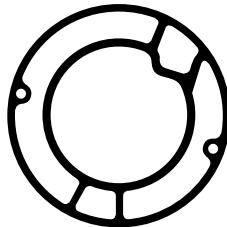
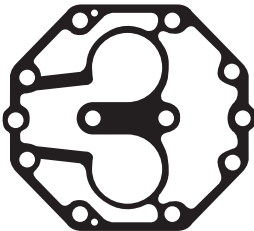
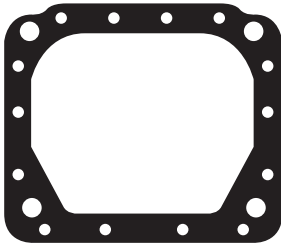
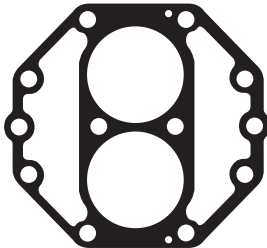
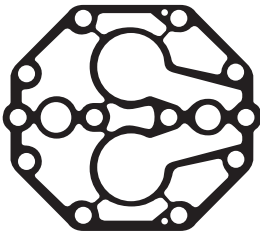
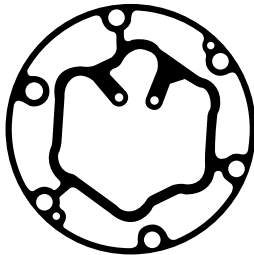
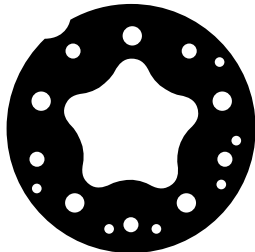
Chrysler C-171 S & D Gasket Pilot





# Mobile Air Conditioning Components

## - FIBER GASKETS -

|                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                              |                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Summit Industries<br/>Fiber Gasket Materials</b></p> <p>Summit Fiber Gaskets are available primarily in non-asbestos materials. However, a few models are still available in materials which contain asbestos for customers who require it and understand the added precautions that must be taken. Asbestos materials are being phased out and will no longer be available after existing stores are depleted.</p> | <p><b>33-001</b><br/>York/Tecumseh Service Port Gasket</p>  | <p><b>33-002</b><br/>Chrysler RV-2 Suction Gasket</p>          |
| <p><b>33-003</b><br/>Chrysler RV-2 Discharge Gasket</p>                                                                                                                                                                                                                                                                                  | <p><b>33-004</b><br/>Hitachi MJS-170 Fr. Case Gasket</p>   | <p><b>33-005</b><br/>Nippondenso 10PA-17VC Head Gasket</p>    |
| <p><b>33-006</b><br/>York Compressor Head Gasket (early model)</p>                                                                                                                                                                                                                                                                     | <p><b>33-007</b><br/>York Compressor Base Gasket</p>      | <p><b>33-008</b><br/>York Compressor Valve Plate Gasket</p>  |
| <p><b>33-009</b><br/>York Compressor Head Gasket ('68 &amp; newer)</p>                                                                                                                                                                                                                                                                 | <p><b>33-010</b><br/>Chrysler 6C-17 Rear Head Gasket</p>  | <p><b>33-011</b><br/>Sanden 507 Valve Plate Gasket</p>       |

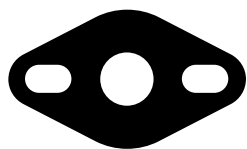
# Mobile Air Conditioning Components

## - FIBER GASKETS -



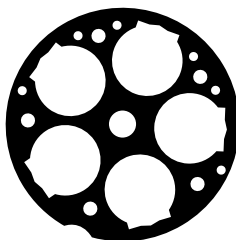
**33-012**

York/Tecumseh Univ. Service Port  
Gasket



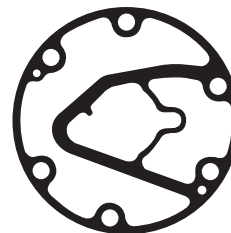
**33-013**

Sanden 507 Head Gasket



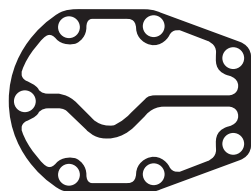
**33-014**

Nippondenso 6P-127/148  
Cylinder Gasket



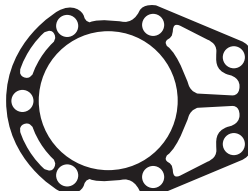
**33-015**

Chrysler RV-2 Cylinder Head  
Gasket



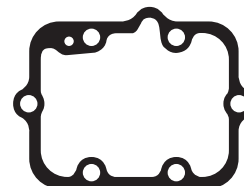
**33-016**

Chrysler RV-2 Valve Plate Gasket



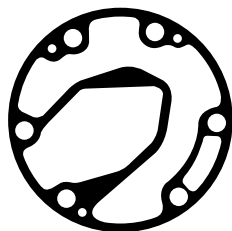
**33-017**

Chrysler RV-2 Base Gasket



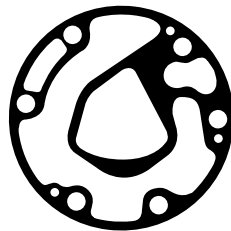
**33-018**

Diesel Kiki DKS-15 Head Gasket



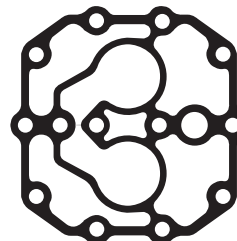
**33-019**

Diesel Kiki DKS-15 Valve Plate  
Gasket



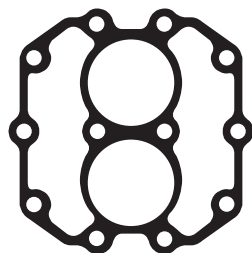
**33-020**

Tecumseh HG-850/1000 Head  
Gasket



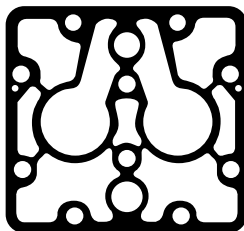
**33-021**

Tecumseh HG-850/1000 Valve  
Plate Gasket



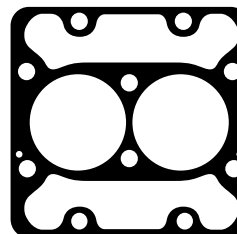
**33-022**

York Mini Head Gasket



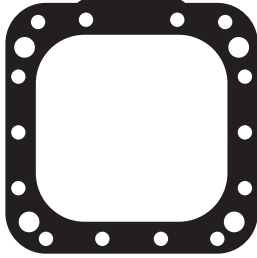
**33-023**

York Mini Valve Plate Gasket



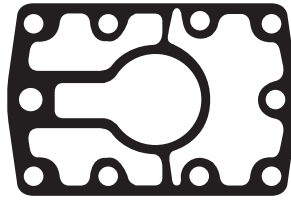
**33-024**

York Mini Base Gasket



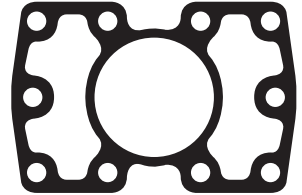
**33-025**

Tecumseh HG-500 Head Gasket



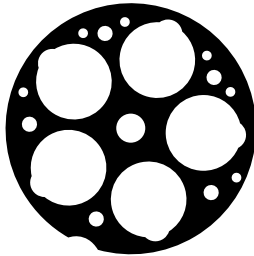
**33-026**

Tecumseh HG-500 Valve Plate Gasket



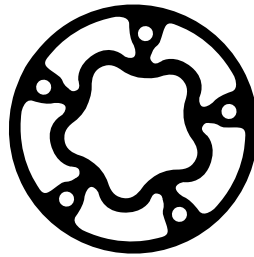
**33-027**

Sanden 507 Head Gasket (alternate)



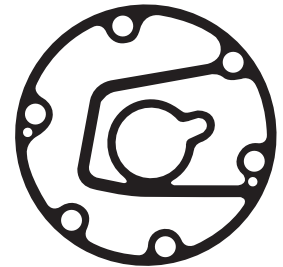
**33-028**

Sanden 507 Valve Plate Gasket (alternate)



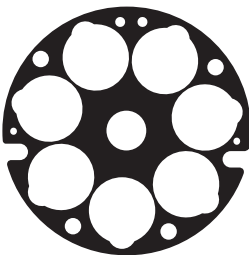
**33-029**

Nippondenso 6E-171A Head Gasket



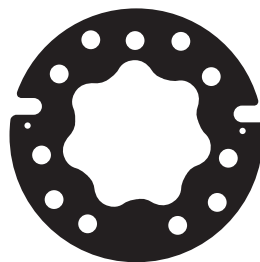
**33-030**

Sanden 708 Head Gasket



**33-031**

Sanden 708 Valve Plate Gasket



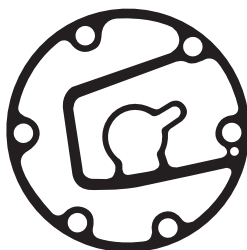
**33-032**

GM Coil Dust Protector (foam)



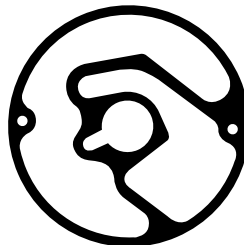
**33-033**

Nippondenso 6P-134 Head Gasket



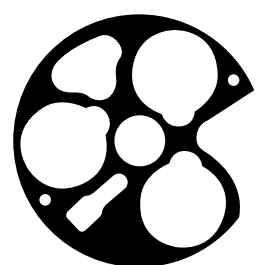
**33-034**

Hitachi 123/167 Rear Head Gasket



**33-035**

Hitachi 123/167 Valve Plate Gasket



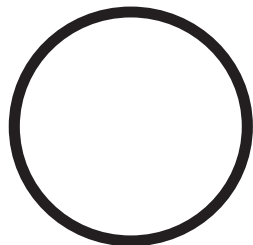
# Mobile Air Conditioning Components

## - FIBER GASKETS -



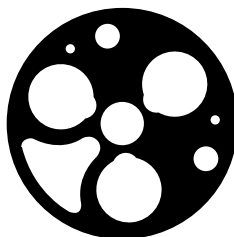
**33-036**

Hitachi 123/167 Front Case Gasket



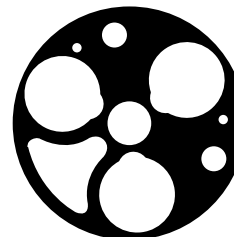
**33-037**

Hitachi 110 Valve Plate Gasket (small)



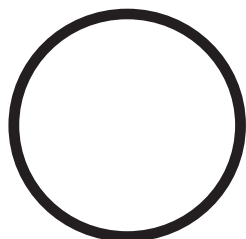
**33-038**

Hitachi 110 Valve Plate Gasket (large)



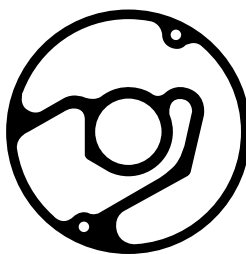
**33-039**

Hitachi Front Case Gasket



**33-040**

Hitachi MJ167 Front Head Gasket



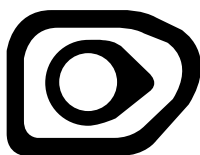
**33-041**

Hitachi Crossover Plate Gasket



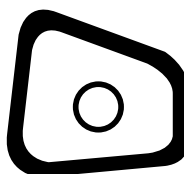
**33-042**

GM A-6 Rear Head Gasket (mylar)



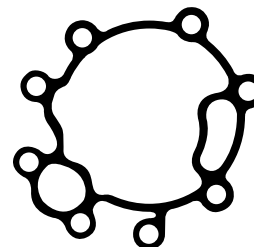
**33-043**

GM A-6 Front Nose Gasket (mylar)



**33-044**

York Vane Rotary Head Gasket



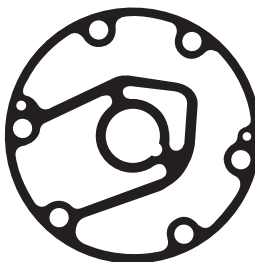
**33-045**

York Vane Rotary Crossover Gasket



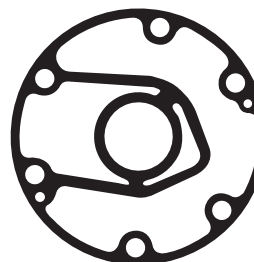
**33-048**

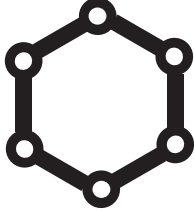
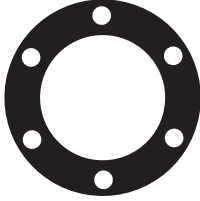
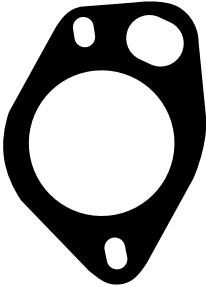
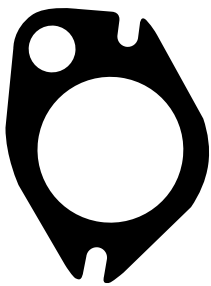
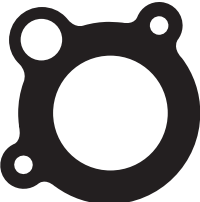
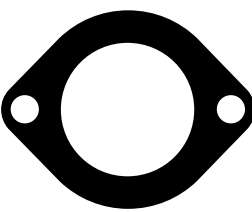
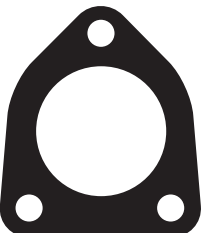
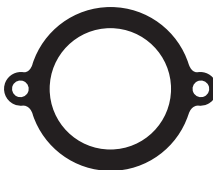
Nippondenso 6P-127A Rear Head Gasket



**33-049**

Nippondenso 6P-127A Front Head Gasket



|                                                                                                                                                                 |                                                                                                                                                        |                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>33-050</b><br>York/Tecumseh Front Plate Gasket<br>                          | <b>33-051</b><br>York/Tecumseh Front Plate Gasket<br>                 | <b>NOTE</b><br><p>Summit is currently evaluating the addition of several dozen additional fiber gaskets to our product line. Please call or consult the Summit website for updates and new product bulletins.</p> <p><a href="http://www.summitseal.com">www.summitseal.com</a></p> |
| <b>33-300</b><br>Water Outlet Gasket -<br>GM/Ford/Chrysler/Jeep - 99-61<br>    | <b>33-301</b><br>Water Outlet Gasket -<br>Ford - 95-74<br>           | <b>33-302</b><br>Water Outlet Gasket -<br>Ford - 95-74<br>                                                                                                                                      |
| <b>33-303</b><br>Water Outlet Gasket -<br>GM - 90-75<br>                     | <b>33-304</b><br>Water Outlet Gasket -<br>GM/Ford - 95-64<br>       | <b>33-306</b><br>Water Outlet Gasket -<br>Ford Truck - 91-63<br>                                                                                                                               |
| <b>33-307</b><br>Water Outlet Gasket -<br>Chevrolet/Pontiac/Ford - 03-94<br> | <b>33-308</b><br>Water Outlet Gasket -<br>Ford, Mercury - 03-95<br> | <b>Custom Capabilities</b><br><p>Summit Industries has access to hundreds of other gasket styles in a wide assortment of materials.</p> <p>Summit also produces custom gaskets made to the specifications of our customers.</p>                                                     |



[illegible]



## LATHE CUT SEALS

### FOR MOBILE A/C APPLICATIONS

| Product Description     | Page No. |
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| Lathe Cut Applications  | 102      |
| Lathe Cut Illustrations | 103      |

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**108**

# Mobile Air Conditioning Components

## - LATHE CUT SEALS -

**11-001**

Ford Aerostar Springlock Teflon Seal for  
Heater Core (small tube)

**11-002**

Ford Aerostar Springlock Teflon Seal for  
Heater Core (large tube)

**11-003**

York/Tecumseh Rotolock Teflon Gasket

**11-004 - 11-004B\***

York/Tecumseh Tubo Seal (black neoprene)  
York/Tecumseh Tubo Seal (blue neoprene)

**11-005 - 11-005B\***

York/Tec. Service Valve Seal (black neoprene)  
York/Tec. Service Valve Seal (blue neoprene)

**11-006 - 11-006B\***

Chrysler RV-2 S & D Seal (black neoprene)  
Chrysler RV-2 S & D Seal (blue neoprene)

**11-007**

York/Tecumseh Front Plate Seal

**11-008**

York 5 bolt Front Plate Seal

**11-009 - 11-009B\***

GM VIR Lower Housing Seal (black neoprene)  
GM VIR Lower Housing Seal (blue neoprene)

**11-010**

GM R-4 Nose Seal

**11-011**

Sanden SD508/510/708/709 Case Seal  
Sanden SD505/507/575 Mini Case Seal  
Sanden SD5H/SD7H Case Seal

**11-012**

Chrysler A-590 Center Cylinder Seal  
Nippondenso 10P-17C Cylinder Seal

**11-013**

Chrysler C-171/A-590 F & R Cylinder Seal  
Chrysler C-171 Cylinder Seal

**11-014**

Ford FS-6 Cylinder Seal

**11-015**

Tecumseh HG850/HG1000 Base Seal

**11-016**

Tecumseh HG850/HG1000 Rear Seal

**11-020**

Nippondenso 10P-13/15 Shell Seal

**11-022**

Nippondenso 6P-134 Center Cylinder Seal

**11-023**

Nippondenso 6P-134 F & R Cylinder Seal

**11-025**

Can Tapping Gasket

**11-026**

Can Tapping Gasket

**11-027**

Can Tapping Gasket

**11-028**

Charging Hose Gasket (1/4")

**11-029**

Molded Charging Hose Gasket (1/4")

**11-030**

R-134a Tank Valve Gasket

**11-031**

Charging Hose Gasket (3/16")

**11-032**

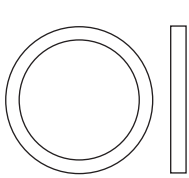
Quad O-Ring - Anti-blowback Adaptor Gasket

\*The suffix "B" denotes Blue Teflon Coating

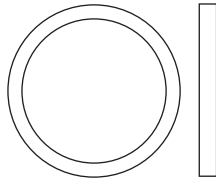
**NOTE**

Summit offers Custom Lathe Cut Seals made  
made to your size and compound specifications.

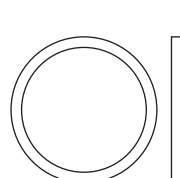
ILLUSTRATIONS ARE ACTUAL SIZE



11-001



11-002



11-003



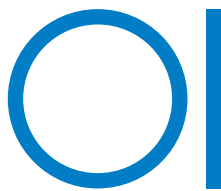
11-004



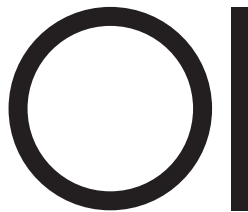
11-004B



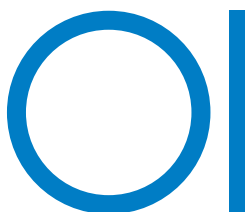
11-005



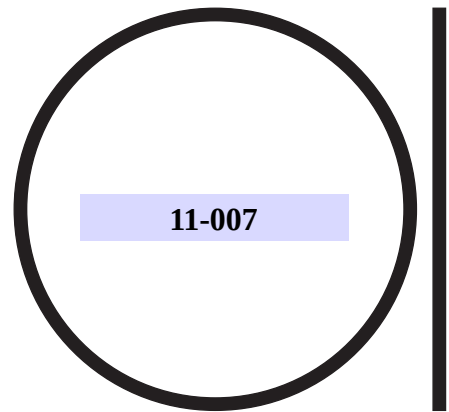
11-005B



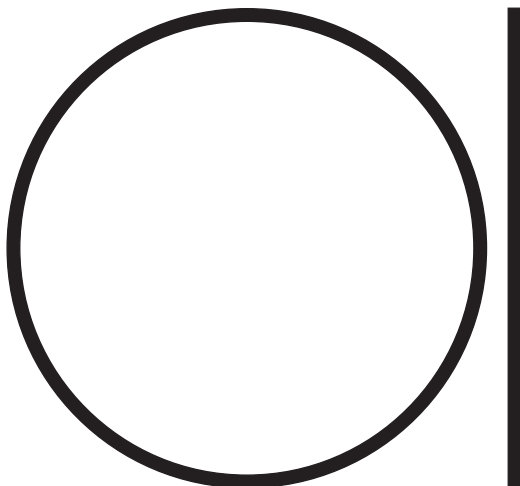
11-006



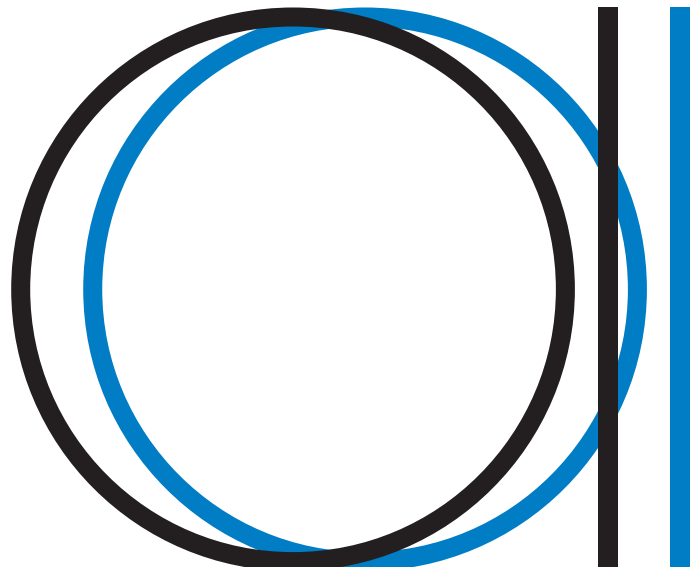
11-006B



11-007



11-008



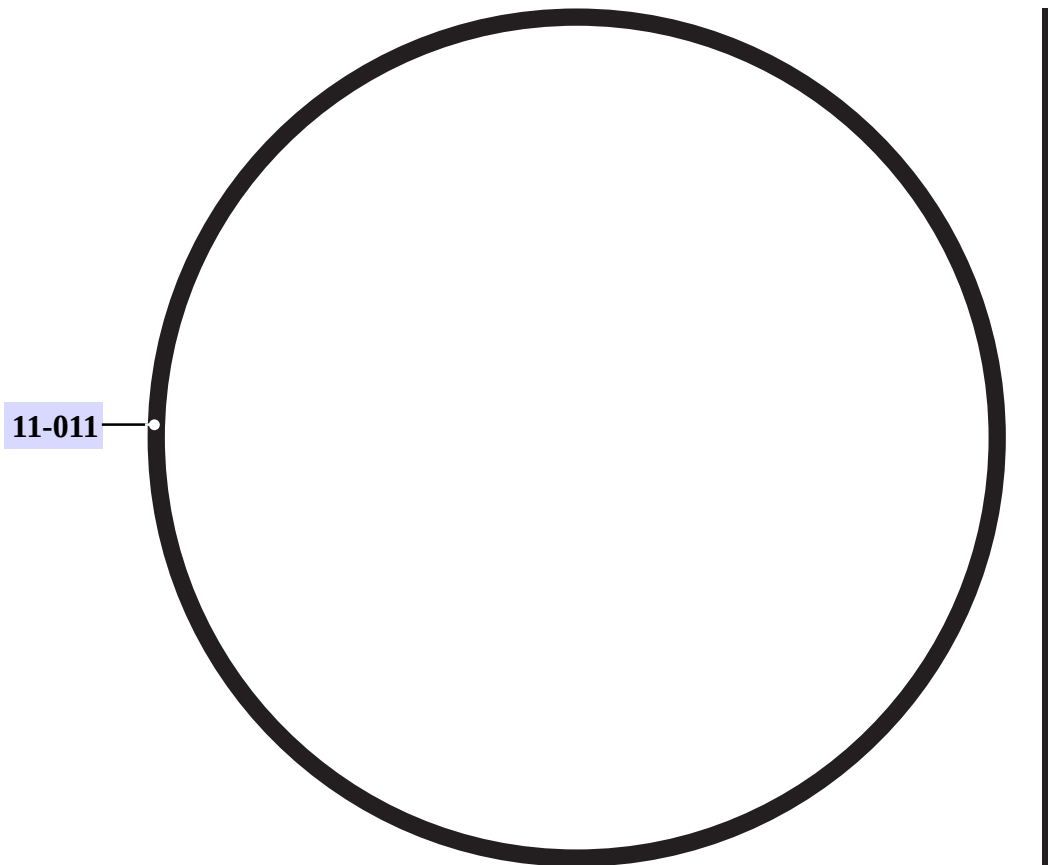
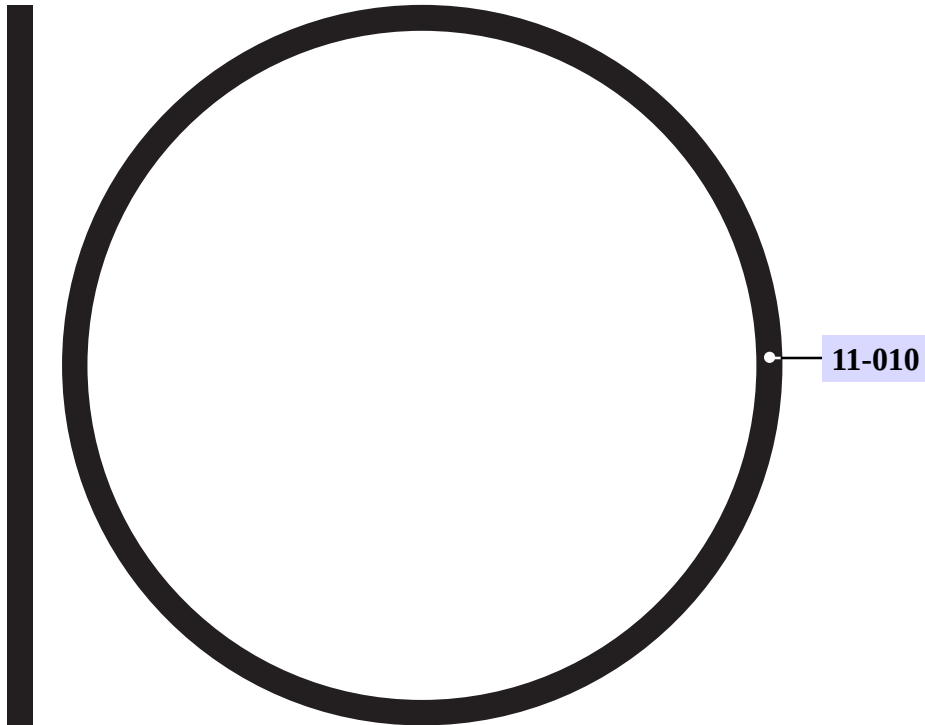
11-009 / 11-009B

# Mobile Air Conditioning Components

- LATHE CUT SEALS -



ILLUSTRATIONS ARE ACTUAL SIZE

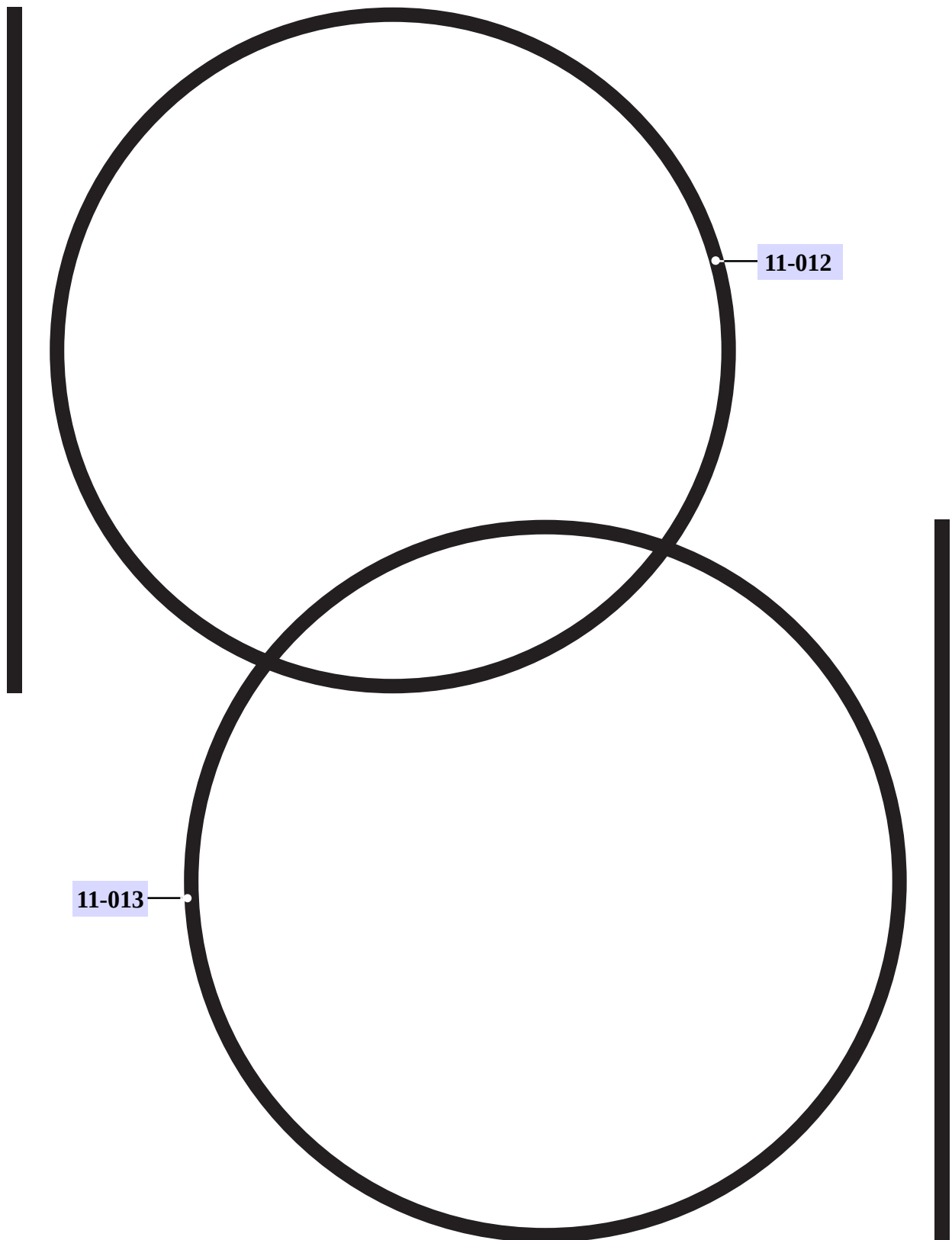




# Mobile Air Conditioning Components

- LATHE CUT SEALS -

ILLUSTRATIONS ARE ACTUAL SIZE

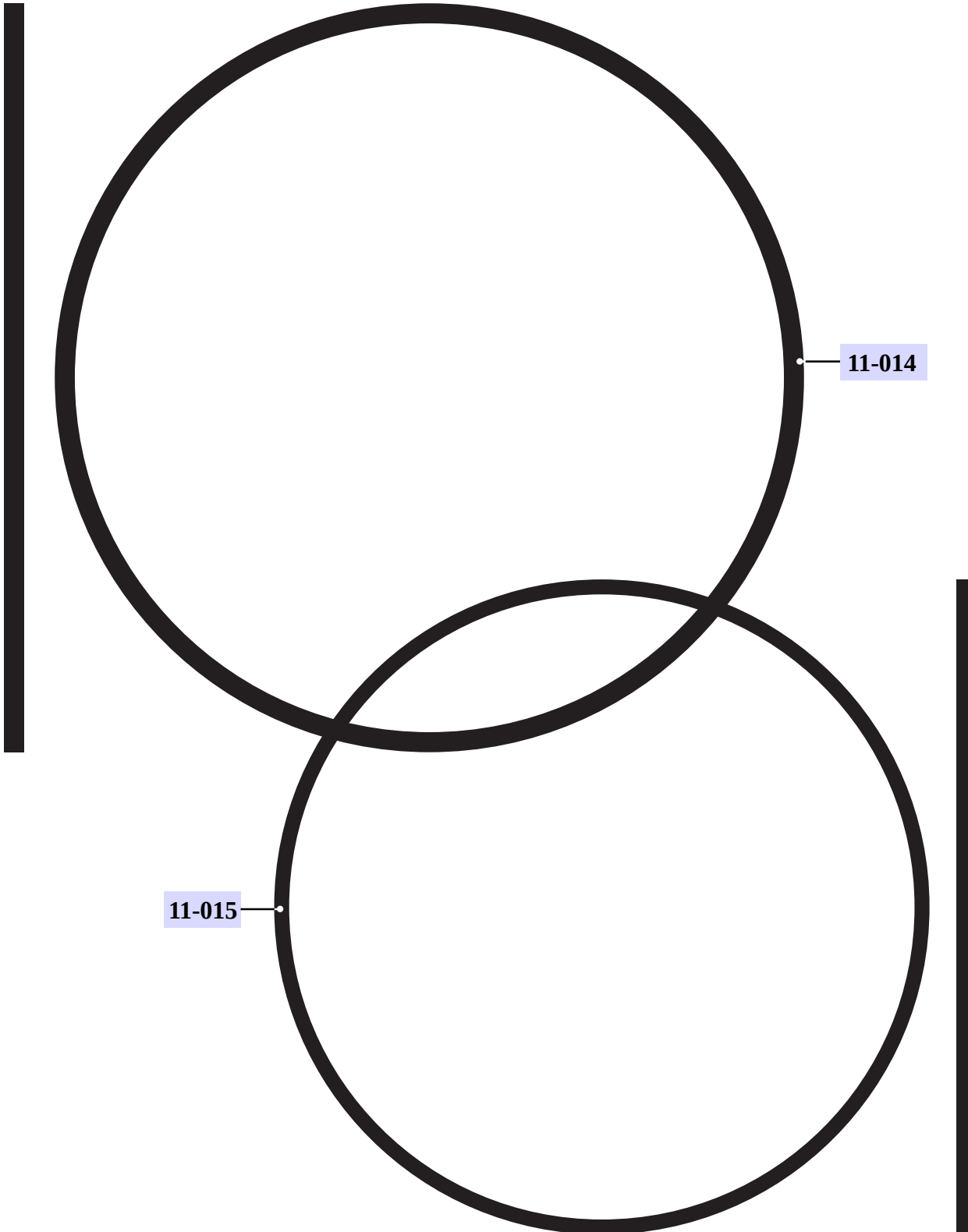


# Mobile Air Conditioning Components

- LATHE CUT SEALS -



ILLUSTRATIONS ARE ACTUAL SIZE

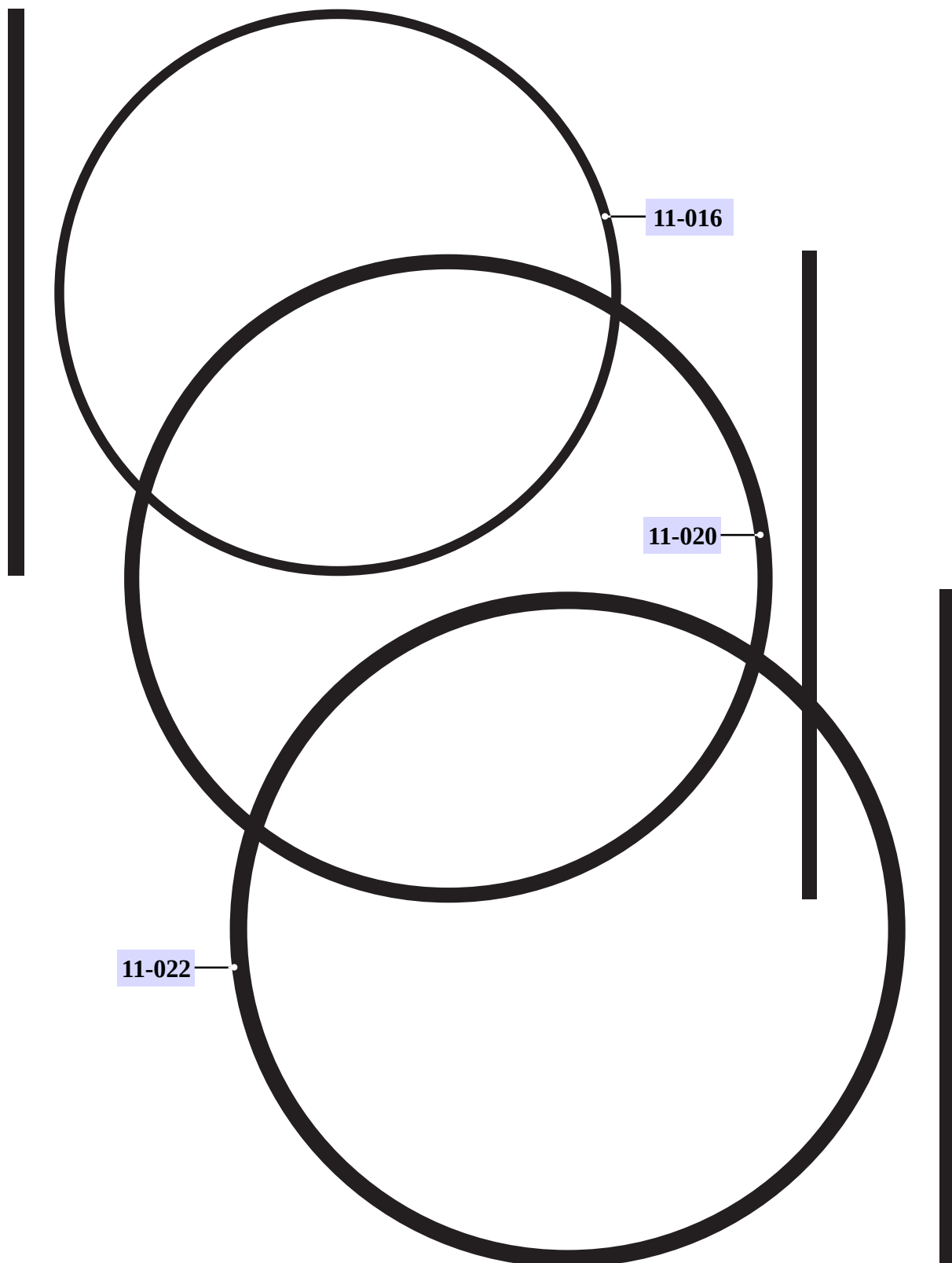




# Mobile Air Conditioning Components

- LATHE CUT SEALS -

ILLUSTRATIONS ARE ACTUAL SIZE



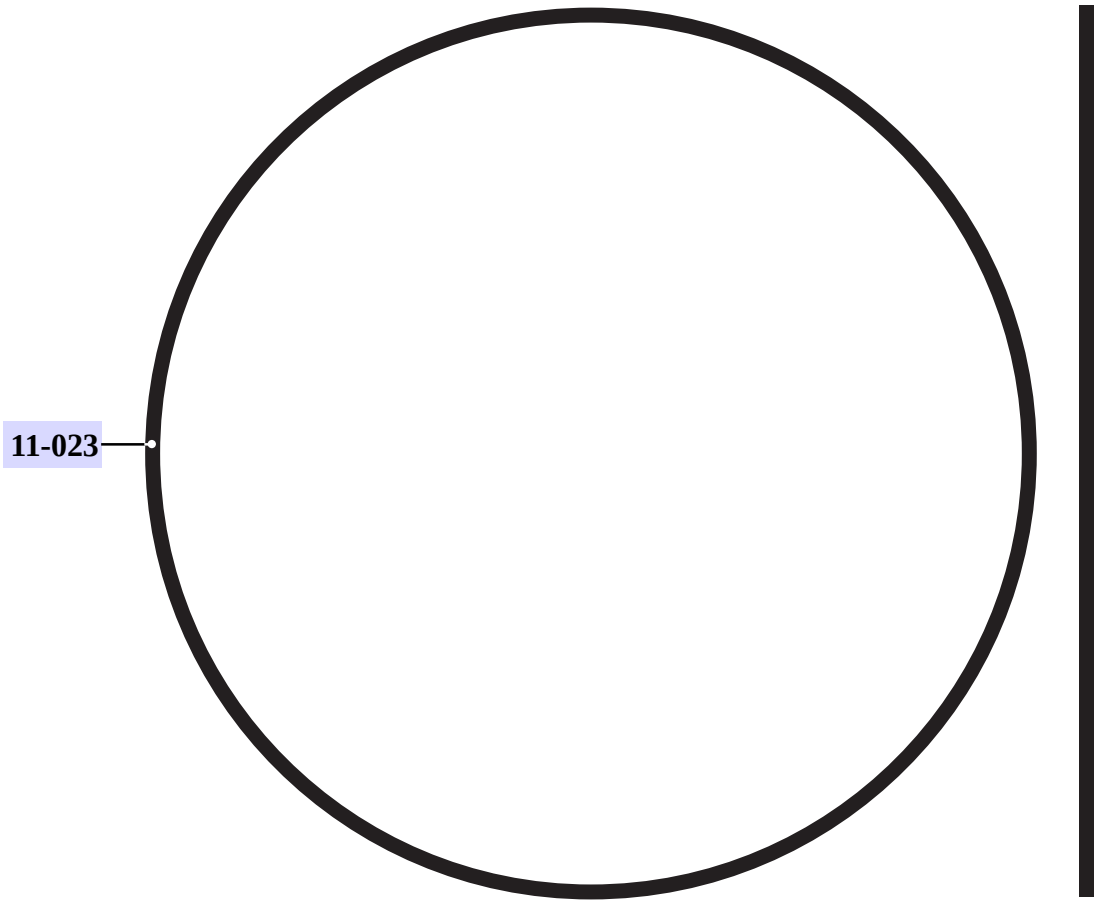


# Mobile Air Conditioning Components

- LATHE CUT SEALS -



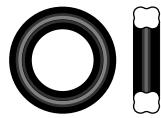
ILLUSTRATIONS ARE ACTUAL SIZE



CHARGING HOSE AND CAN TAPPING GASKETS



11-025      11-026      11-027      11-028



11-029      11-030      11-031      11-032



## RETAINING RINGS

### FOR MOBILE A/C APPLICATIONS

| Product Description          | Page No. |
|------------------------------|----------|
| Retaining Ring Applications  | 110      |
| Retaining Ring Illustrations | 112      |

# R E T A I N I N G R I N G S

Pages  
**109**  
-  
**114**

# Mobile Air Conditioning Components

## - RETAINING RINGS -



**HO = Internal Retaining Ring**  
**VHO = Beveled Internal Retaining Ring**  
**SH = External Retaining Ring**  
**VSH = Beveled External Retaining Ring**

### HO-75ST

GM A-6/R-4 Clutch Hub

### HO-87ST-STACKED

(stacked for ease of use)

Chrysler 6C-17 Switch

GM Compressor Switch

GM V-5/Calsonic Control Valve

Matsushita NL/SA Shaft Seal & Switch

Nip. 10S-17C Compressor Switch

Sanden 505/507 Two Piece Shaft Seal

Sanden TR70/90 Two Piece Shaft Seal

### HO-90ST

Behr Bosch Axial Seal Seat

Ford FX-15/FS-10 Lip Seal

Ford Scroll Compressor Lip Seal

Mitsubishi MCS-90C Lip Seal

Sanden TRF105/TRS105 Lip Seal

Seiko Seiki Lip Seal

### HO-106ST

Diesel Kiki CH/DKS-13/17 Lip Seal

Sanden 708/709 Two Piece Shaft Seal

Mitsubishi FX80 Lip Seal

Nihon DKV14D Bearing & Shaft Seal

Tama TM08-16 Lip Seal

### HO-112ST

Ford Nip. 10P-15 Lip Seal

Nip. 10P-13/15 Two Piece Shaft Seal

### HO-118ST

Chrysler 6C-17 Shaft Seal

Ford Scroll Compressor Pulley

GM DA-6 Two Piece Seal Seat

Diesel Kiki DCV/DKS-16 Shaft Seal

Nip. 10PA Lip Seal/7SB16C Shaft Seal

Sanden 507/5H13 Shaft Seal

### HO-118STPA

Same as above with Black Phosphate Coating

### DSH-12ST (special metric size)

Sanden TRS090/TR909 Shaft Retainer

### SH-118ST

Ford FX-15/FS-10 Clutch Pulley

Nippondenso 10PA Clutch Pulley

Sanden TR70/90 Clutch Pulley

### SH-137ST

Diesel Kiki BH/CH Clutch Pulley

Diesel Kiki DCW/DKS Clutch Pulley

Nihon DKV-14C Clutch Pulley

Nippondenso 10PO8E Clutch Pulley

Nippondenso TV12/14 Clutch Pulley

Sanden 505/507 Clutch Pulley

### SH-156ST

Calsonic V-5 Clutch Pulley

Chrysler C-171/A-590 Clutch Pulley

Ford FS-6 Clutch Pulley

GM Clutch Pulley

Hitachi MJ110/MJS-170 Clutch Pulley

Nippondenso 6E/6P Clutch Pulley

Nippondenso 10P/10PA Clutch Coil

Nippondenso TV 12/14 Clutch Coil

Sanden 505/507 Clutch Pulley

Sanden 507/508 Clutch Pulley

Sanden 708/709 Clutch Pulley

Seiko Seiki 808/170PSS Clutch Pulley

### SH-175ST

Behr Bosch Axial Clutch Pulley

Diesel Kiki DCW-17 Clutch Coil

GM A-6/R-4 Clutch Coil

### SH-196ST

Chrysler C-171/A-590 Clutch Coil

Ford FS-6 Clutch Coil

Nippondenso 6E/6P/10P Clutch Coil



# Mobile Air Conditioning Components

## - RETAINING RINGS -

### VHO-106ST

Diesel Kiki CH/DKS-13/17 Lip Seal  
Sanden 708/709 Two Piece Shaft Seal  
Mitsubishi FX80 Lip Seal

### VHO-118ST

Ford Scroll Compressor Pulley  
GM DA-6 Two Piece Seal Seat  
Diesel Kiki DCV/DKS-16 Shaft Seal  
Nippondenso 10PA Lip Seal  
Sanden 507/5H13 Shaft Seal

### VHO-124ST

Calsonic V5-15 Shaft Seal  
Chrysler 6C-17 Lip Seal  
Diesel Kiki YA Shaft Seal  
Ford HR-980 Shaft Seal  
GM A-6/R-4 Shaft Seal  
Hitachi MJS-130/170 Two Piece Shaft Seal  
Keihin 150L/R Shaft Seal  
Nihon DKV-14B Shsft Seal  
Nippondenso 10PO8E Lip Seal

### VHO-124ST-STACKED

Same as above, but stacked for ease of use

### VSH-118ST

Diesel Kiki DCV-11A Shaft Seal  
Ford FX-15/FS-10 Clutch Pulley  
Nippondenso 10PA Clutch Pulley  
Sanden TR 70/90 Clutch Pulley

### VSH-137ST

Diesel Kiki BH / CH Clutch Pulley  
Diesel Kiki DCW / DKS Clutch Pulley  
Matsushita NL Clutch Pulley  
Nihon DKV-14C Clutch Pulley  
Nippondenso 10PO8E Clutch Pulley  
Nippondenso 10S17C Clutch Pulley  
Nippondenso TV12/14 Clutch Pulley  
Sanden 505/507 Clutch Pulley  
Sanden SD7V16/TRF105 Clutch Pulley

### VSH-156ST

Calsonic V-5 Clutch Pulley  
Chrysler C-171/A-590 Clutch Pulley  
Ford FS-6 Clutch Pulley  
GM Clutch Pulley  
Hitachi MJ110/MJS-170 Clutch Pulley  
Nippondenso 6E/6P Clutch Pulley  
Nippondenso 10P/10PA Clutch Coil  
Nippondenso TV 12/14 Clutch Coil  
Sanden 505/507/508 Clutch Pulley  
Sanden 708/709 Clutch Pulley  
Seiko Seiki 808/170PSS Clutch Pulley

### VSH-175ST

Behr Bosch Axial Clutch Pulley  
Diesel Kiki DCW-17 Clutch Coil  
GM A-6/R-4 Clutch Coil

### VSH-196ST

Behr Bosch Axial Clutch Coil  
Chrysler C-171/A-590 Clutch Coil  
Ford FS-6 Clutch Coil  
Hitachi MJ110/170 Clutch Coil  
Nippondenso 6E/6P/10P Clutch Coil  
Sanden 507/508 Clutch Coil  
Seiko Seiki 808/170PSS Clutch Coil

### VSH-196STPA.078

Same as above except for Black Phosphate Coating and special .078 thickness.

### TI-62STPA

GM VIR Pickup Tube Star Retainer  
Receiver Drier Filter Screen / Pickup Tube

### NOTE

Summit Industries, Inc. supplies Retaining Rings to a wide variety of industries other than Mobile Air Conditioning. Summit has access to virtually all sizes and materials of retaining rings and also has the ability to offer custom-made retaining rings.

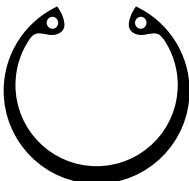
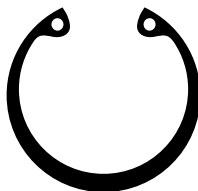
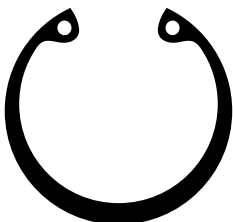
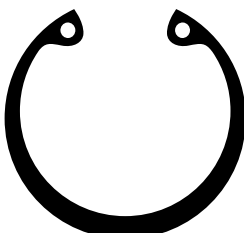
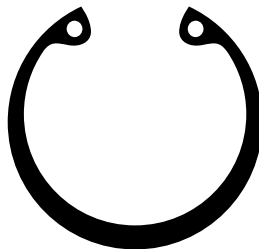
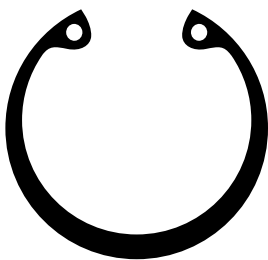
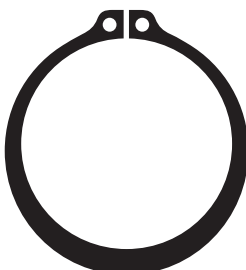
# Mobile Air Conditioning Components

## - RETAINING RINGS -



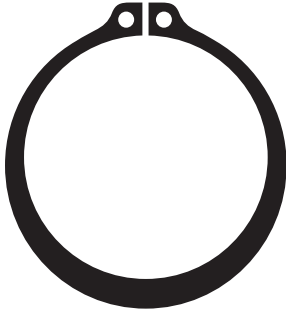
### ILLUSTRATIONS ARE ACTUAL SIZE

Summit Industries is a distributor of retaining rings for all applications, including those calling for non-standard dimensions and thicknesses. The retaining rings shown on these pages are for specific Mobile A/C applications as listed on the application pages. If you need retaining rings that are not referenced on these pages, please call and request information about our full line of retaining rings.

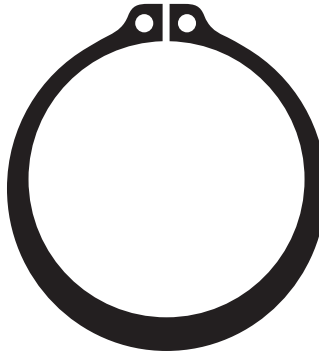
|                                                                                     |                                                                                     |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| HO-75ST                                                                             | HO-87ST-STACKED                                                                     | HO-90ST                                                                               |
|    |    |    |
| HO-106ST                                                                            | HO-112ST                                                                            | HO-118ST                                                                              |
|  |  |  |
| HO-124ST                                                                            | DSH-12STPA                                                                          | SH-118STPA                                                                            |
|  |  |  |

ILLUSTRATIONS ARE ACTUAL SIZE

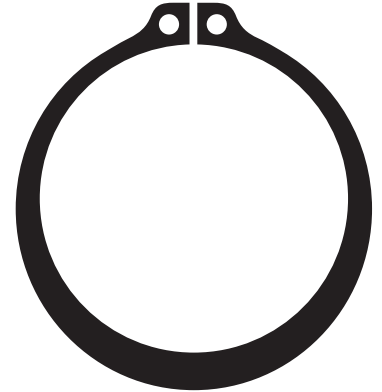
SH-137ST



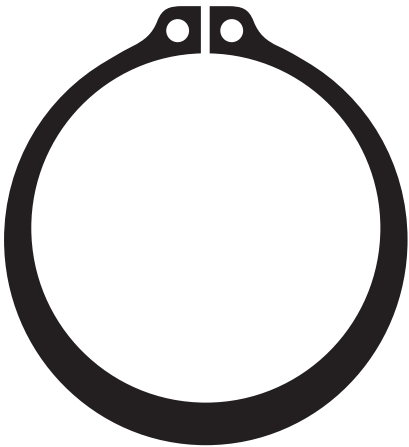
SH-156ST



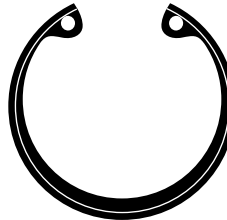
SH-175ST



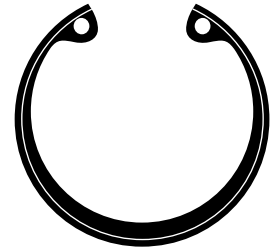
SH-196ST



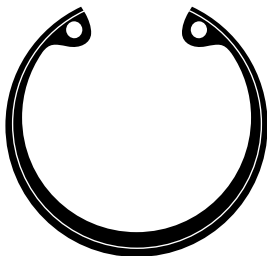
VHO-106ST



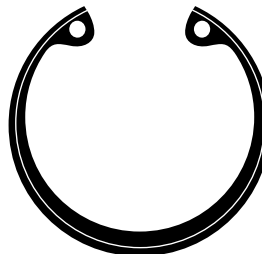
VHO-118ST



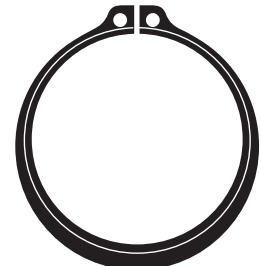
VHO-124ST



VHO-124ST-STACKED



VSH-118ST



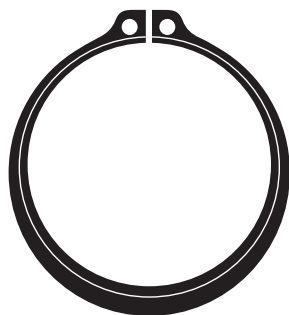
# Mobile Air Conditioning Components

## - RETAINING RINGS -



ILLUSTRATIONS ARE ACTUAL SIZE

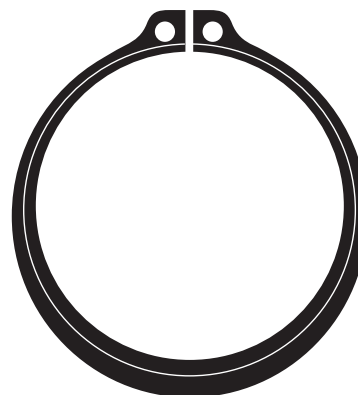
VSH-137ST



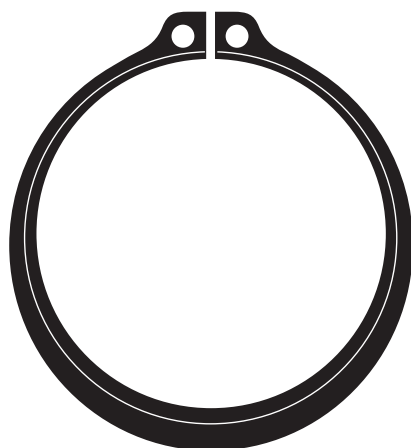
VSH-156ST



VSH-175ST



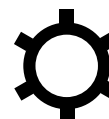
VSH-196ST



VSH-196STPA.078

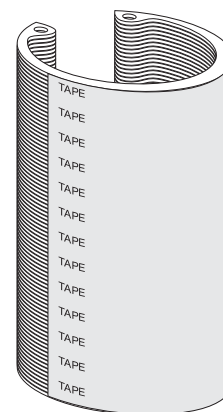
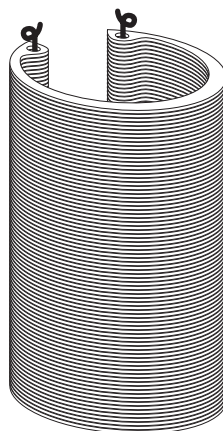


TI-62STPA



“STACKED” INTERNAL RETAINING RINGS

Internal Retaining Rings have a tendency to “link” together when packed loose in a shipping container creating an inconvenient mess. In order to prevent this from occurring, Summit offers Internal Retaining Ring packaged in “stacks” which are held together either with wire through the installation holes or by tape affixed to the outer diameter.





## COMPRESSOR SHAFT SEALS

FOR MOBILE A/C APPLICATIONS

| Product Description             | Page No. |
|---------------------------------|----------|
| Shaft Seals - Bulk and Packaged | 116      |
| Packaging Overview              | 117      |

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T  
  
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L  
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Pages  
**115**  
-  
**118**



# Mobile Air Conditioning Components

## - COMPRESSOR SHAFT SEALS -



### SHAFT SEALS & KITS TO YOUR SPECIFICATION

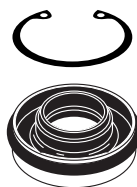
#### Summit can be your source for Shaft Seals

Summit supplies a broad variety of Mobile A/C Compressor Shaft Seals in bulk and packaged forms according to the needs and requirements of our customers. Contact your Summit sales professional for assistance in determining how we can fill your needs for bulk and packaged Shaft Seals.

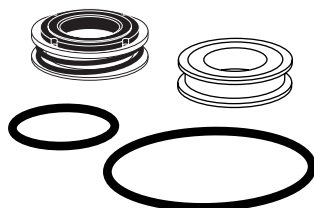
#### Bulk Shaft Seals



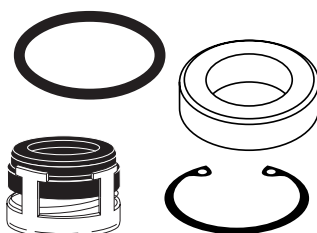
#### Standard and Custom Shaft Seal Kits



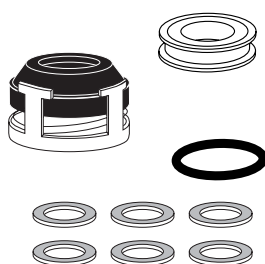
#### Retaining Rings & Felt Wipers



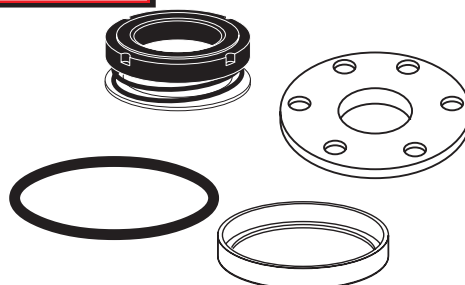
#### Mechanical Seals and Lip Seals



#### O-Rings, Neoprene or Green HNBR

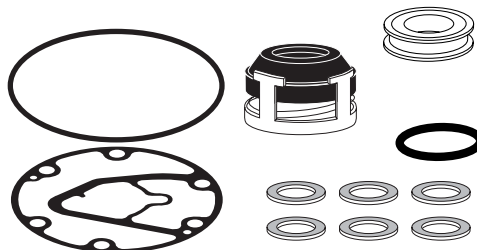


#### Skin-packaged Kits Made-to-Order



#### Seal Heads, Seal Seats, Hub Shims, Front Nose Gaskets

#### OE Quality at Aftermarket Prices





# Mobile Air Conditioning Components

- CUSTOM PACKAGING -

- *Summit Industries, Inc. - Versatility in Packaging* -

Summit offers standard Plastic Box Assortments, standard Poly Bag Kits, standard Shaft Seal Kits, Standard Bulk Packages, but Summit offers much more when it comes to **Custom Packaged Assortments MADE TO YOUR ORDER.**

\* \* \* \* \*

## *Summit Specializes in Custom Packaging*

The majority of the packaged kits Summit produces are custom-made for individual customers according to the applications and requirements of the end user.

Summit can help you design a parts assortment to meet your needs and develop the custom instruction sheets or insert cards containing all the information to help your end users put your completed kits into use.

As you look through the Summit catalog and visit the Summit website, keep in mind that we aim to fill your needs in bulk products and packaged assortments by offering the flexibility of designing Custom Packaged Assortments.

Please contact Summit for all your packaging needs and for information about the broad variety of packaging types that are available.

## *- SUMMIT PACKAGING CAPABILITIES -*

- Custom Boxed Assortments
  - Private Branding
  - Custom Bagging
- Custom Bags with Your Logo
- Custom Labeling & Bar Coding
  - Custom Parts Cabinets
  - Clamshell Packaging
  - Shrink Packaging
  - Skin Packaging

refer to [www.summitseal.com](http://www.summitseal.com) for information on all products available from Summit Industries, Inc.



**Summit**  
Industries, Inc.™

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## TECHNICAL INFORMATION FOR MOBILE A/C APPLICATIONS

| Description                   | Page No. |
|-------------------------------|----------|
| Compressor Breakdowns         |          |
| Ford FS-6                     | 120      |
| Ford FS-10                    | 121      |
| GM HR-6                       | 122      |
| GM R-4                        | 123      |
| GM V-5                        | 124      |
| A/C Systems Illustrated       | 125      |
| Glossary of Mobile A/C Terms  | 127      |
| English to Metric Conversions | 128      |
| Useful Conversions and Tables | 129      |
| Standard O-Ring Size Chart    | 130      |

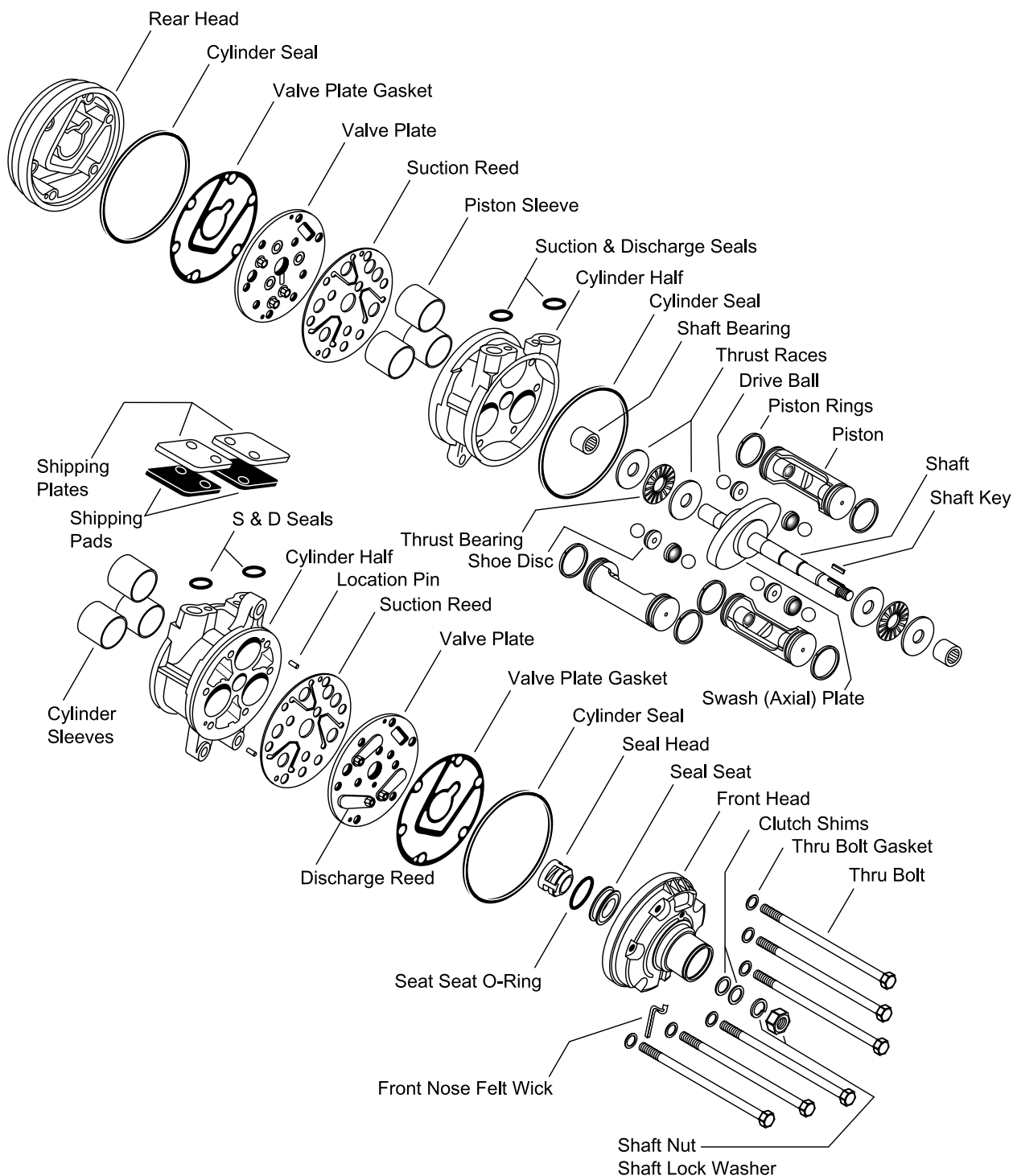
# Mobile Air Conditioning Components

## - TECHNICAL INFORMATION -



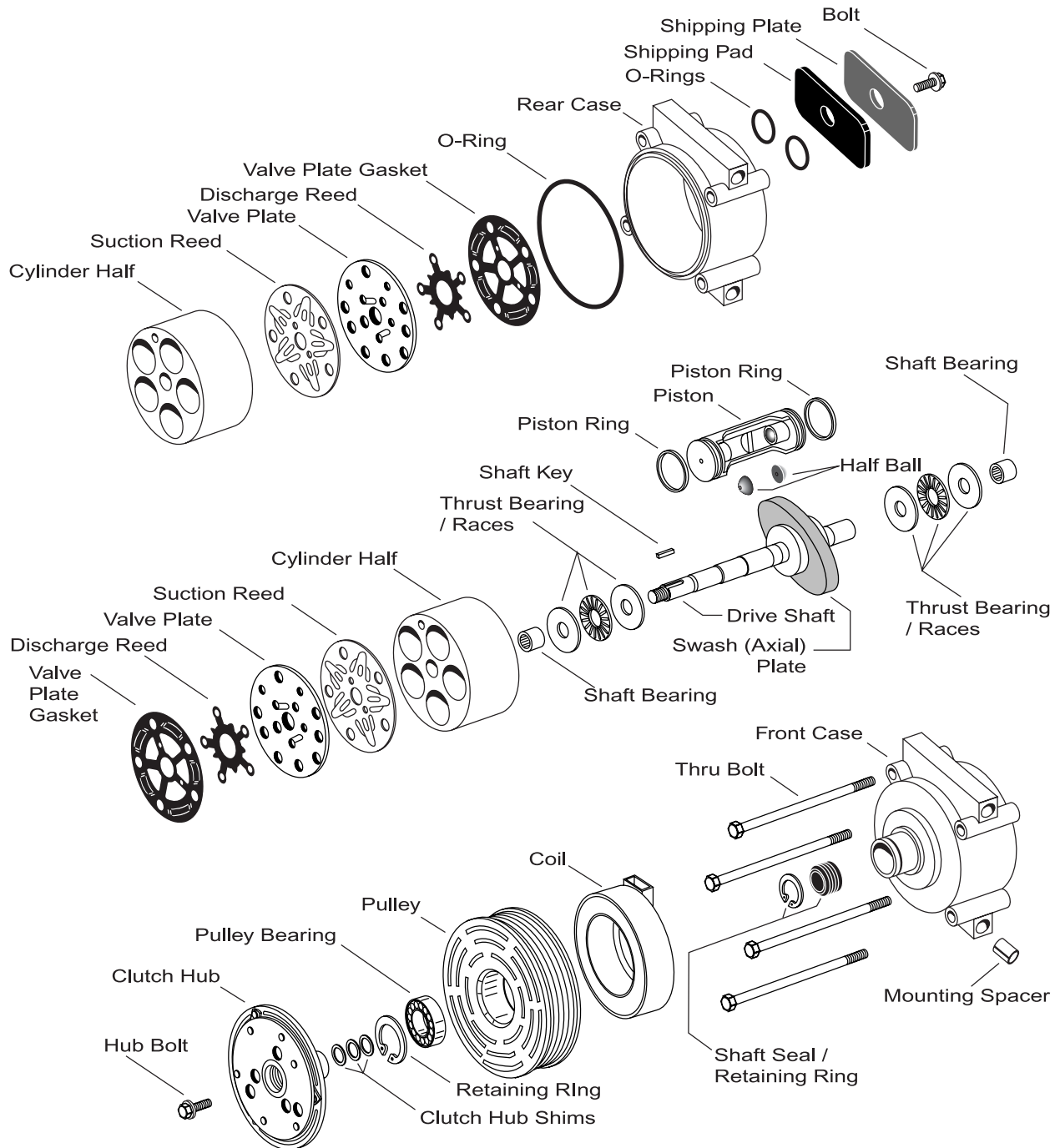
### COMPRESSOR TYPE: AXIAL – FORD FS-6

The Ford FS-6 compressor is an example of a 6 cylinder axial compressor. Like the Chrysler C-171 and A-590 compressors, the FS-6 is built according to Nippondenso designs. Regardless of design or manufacturer, all axial compressors operate according to the same basic principles.



### COMPRESSOR TYPE: AXIAL – FORD FS-10

The Ford FS-10 Compressor is an example of a 10 cylinder axial compressor.



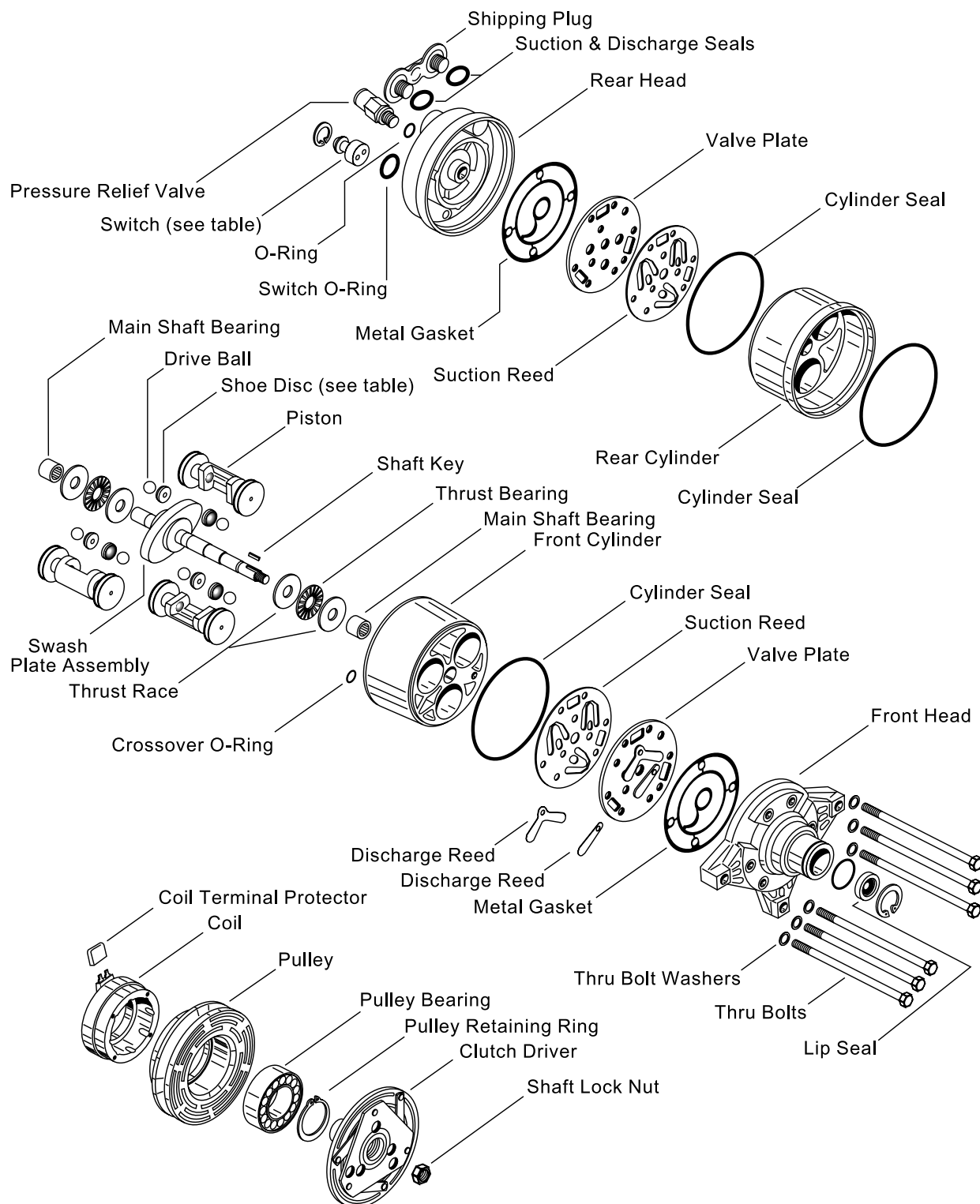
# Mobile Air Conditioning Components

## - TECHNICAL INFORMATION -



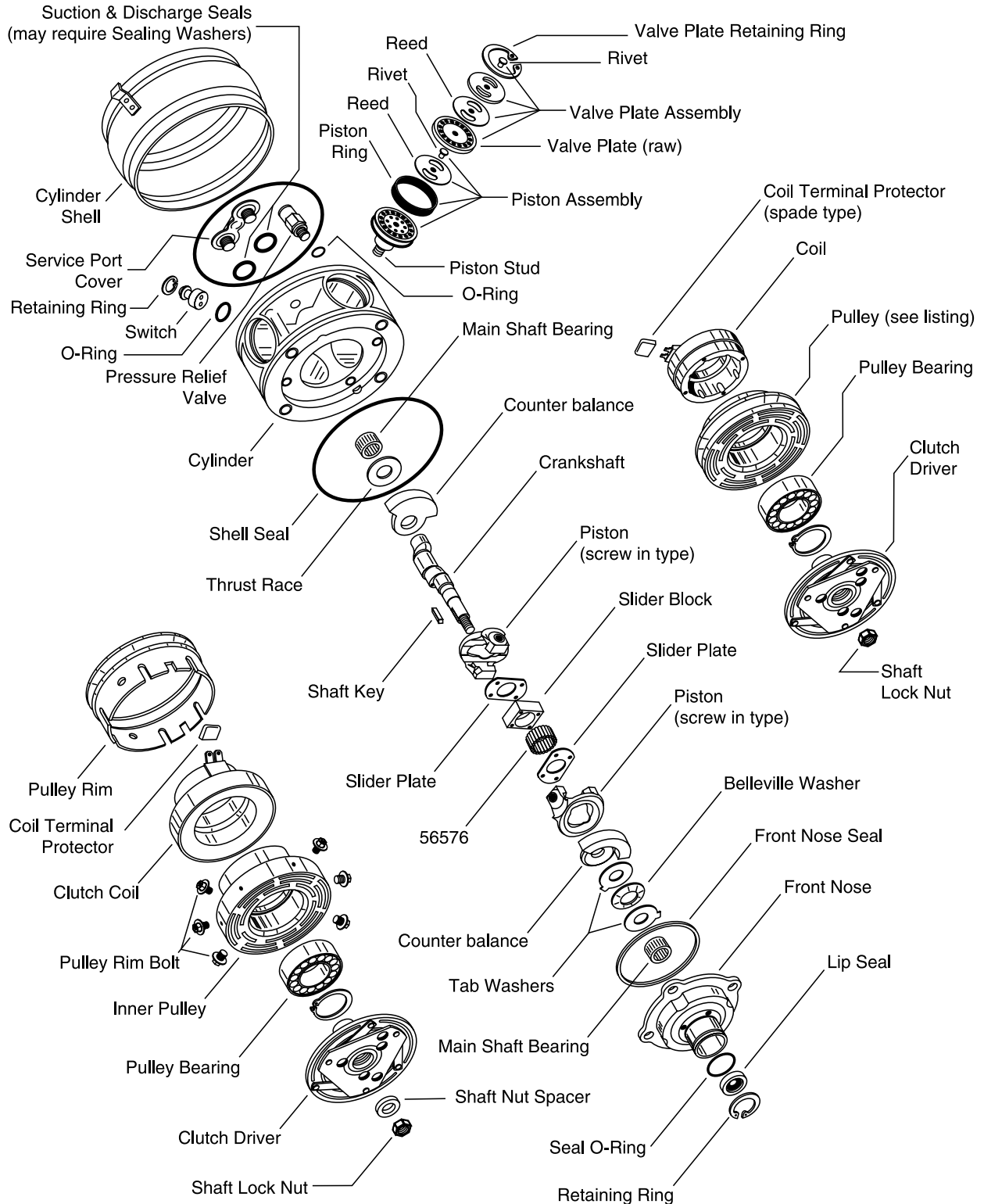
### COMPRESSOR TYPE: AXIAL – GM HR-6

The General Motors HR-6 Compressor is an example of a 6 cylinder axial compressor.



### COMPRESSOR TYPE: RADIAL – GM R-4

The General Motors R-4 Compressor is an example of a 4 cylinder radial compressor.





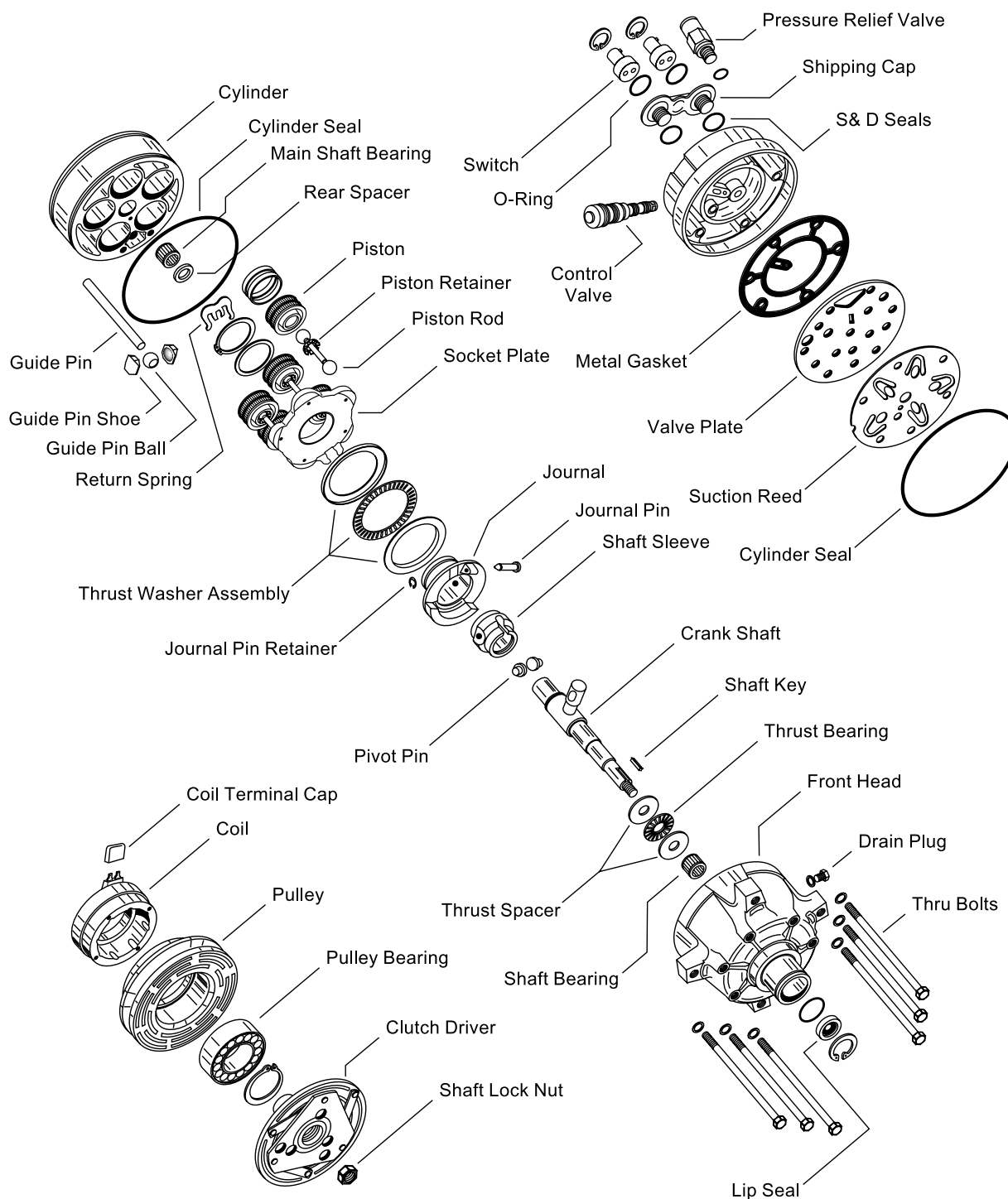
# Mobile Air Conditioning Components

## - TECHNICAL INFORMATION -

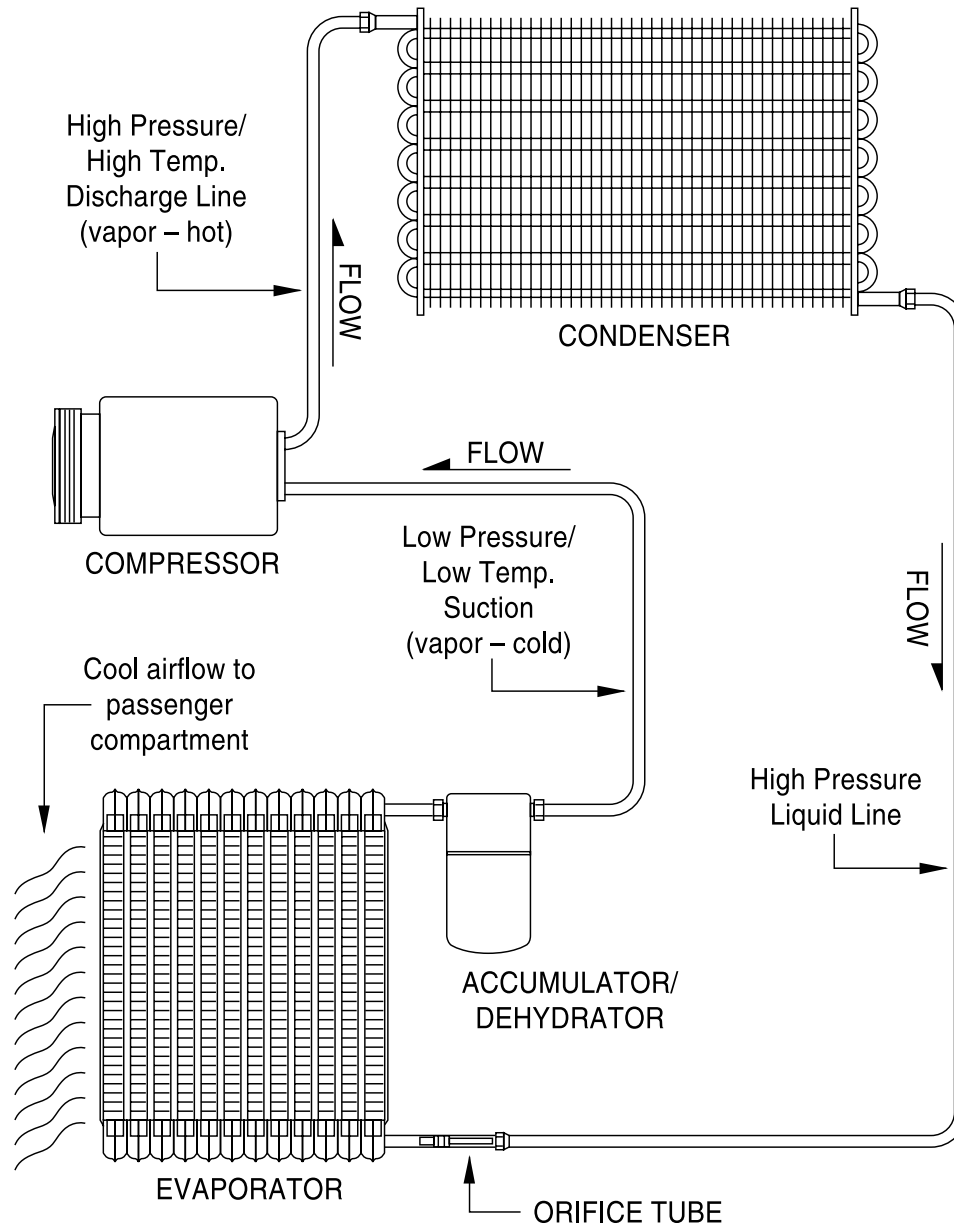


### COMPRESSOR TYPE: VARIABLE / WOBBLE PLATE – GM V-5

The General Motors V-5 Compressor shown here is an example of a 5 cylinder variable displacement / wobble plate compressor. Variable displacement compressors have one or more “control valves” which alter compressor displacement subject to predetermined system criteria in order to cater compressor performance to system demands and to reduce energy requirements.

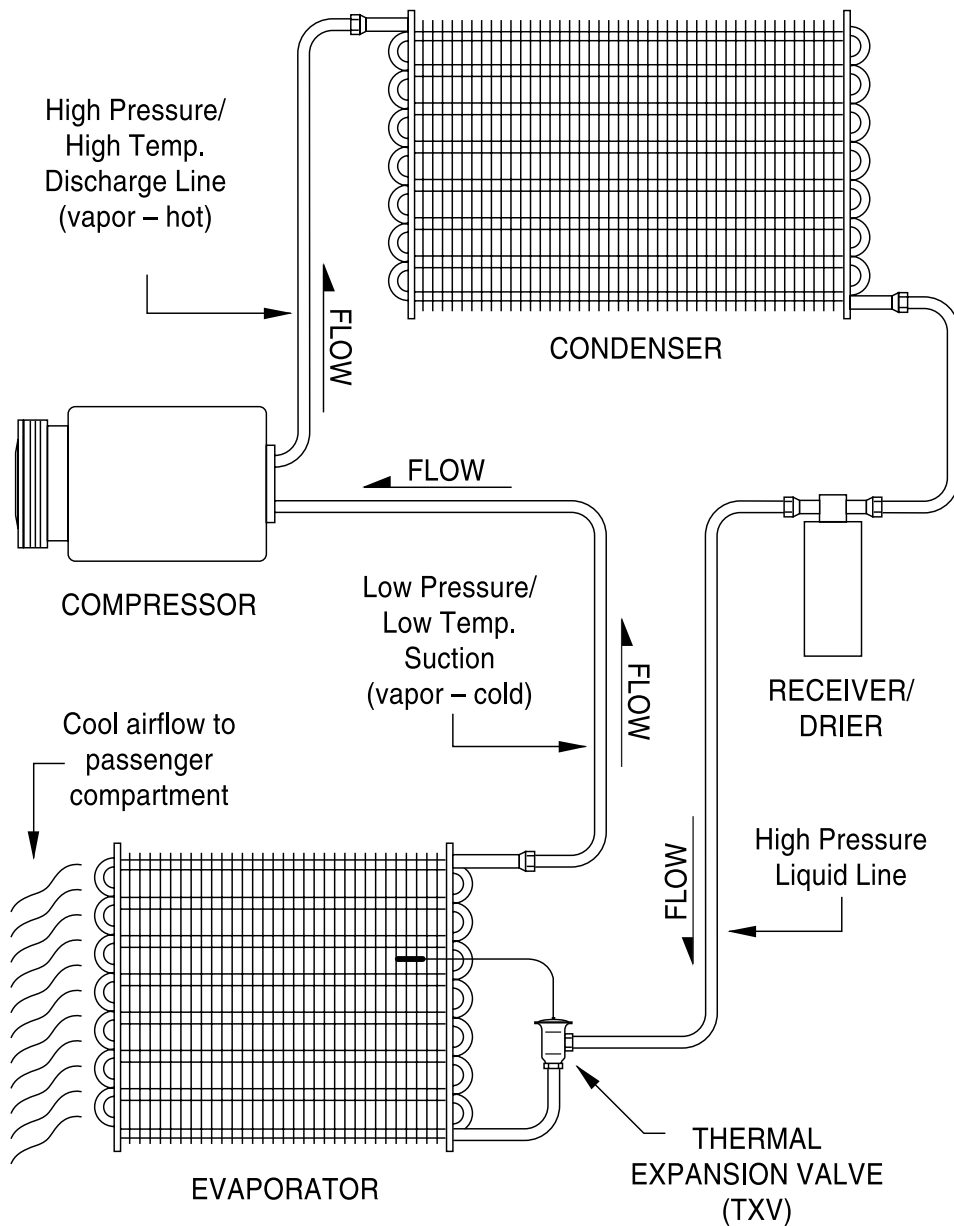


### CLUTCH CYCLING ORIFICE TUBE (CCOT) A/C SYSTEM



System will include a switching device located on the evaporator blower housing or on the accumulator monitoring either evaporator temperature or accumulator pressure to engage or disengage the compressor clutch.

### THERMAL EXPANSION VALVE (TXV) A/C SYSTEM



Thermal expansion valve capillary tube is attached to evaporator body or tubes to monitor evaporator temperature and meter flow of refrigerant into evaporator.

### GLOSSARY OF USEFUL TERMS

**Accumulator / Dehydrator** - A canister located in the low pressure side of orifice tube systems for the purpose of removing moisture from the refrigerant/oil mixture and to provide for excess system oil accumulation.

**ATC - Automatic Temperature Control** - System whereby cabin temperature is measured and used in conjunction with a thermostatic switch for regulating A/C system operation.

**CCOT** - Clutch Cycling Orifice Tube. CCOT systems utilize an orifice tube to create a pressure differential prior to the refrigerant entering the evaporator. CCOT systems may have pressure sensing or thermostatic (temperature) sensing switches that regulate compressor function. (see page 17-6)

**Compressor** - Pump that compresses the refrigerant/oil mixture for circulation through the A/C system.

**Condenser** - Heat exchanger through which the refrigerant/oil mixture is passed under pressure causing a process of condensation and resultant dissipation of heat.

**Drier** - (see Receiver/drier).

**Durometer** - Reference scale for expressing hardness of rubber used in O-Rings, for example. Typical rubber hardness is expressed as "70 durometer."

**Expansion Valve, Thermal Expansion Valve, TXV** - A mechanical device for creating a pressure differential in the inlet line to the evaporator. (see page 17-7)

**Evaporator** - Heat exchanger through which the refrigerant/oil mixture is passed under reduced pressure causing a process of evaporation and heat absorption.

**Fan Switch** - Electrical device that provides current to electric radiator/condenser fan to augment ram air over condenser to alleviate high system pressure occurrences.

**FFOT** - Ford Fixed Orifice Tube. (see CCOT)

**High Side** - Refers to the high pressure side of the A/C system which extends from the compressor outlet to the orifice tube or thermal expansion device.

**Low Side** - Refers to the low pressure side of the A/C system which extends from the orifice tube or thermal expansion device to the compressor inlet.

**Montreal Protocol** - The 1987 initiative signed by nations the world over outlining a timetable for the phase-out of R-12, R-22 and other "ozone depleting substances" (ODS).

**Orifice Tube** - Combination filter and orifice through which the refrigerant and oil mixture are passed to create a temperature differential. Also serves as a system safeguard filter. (see CCOT)

**Pressure Switch** - Electrical device that either provides or interrupts current to compressor due to high, low or optimum system pressure.

**Receiver/Drier** - A canister located in the high pressure side of expansion valve systems for the purpose of removing moisture from the refrigerant/oil mixture and to provide for excess system oil accumulation.

**Refrigerant** - Any of a number of substances approved by regulating agencies for use in A/C systems. A refrigerant is a substance that will readily transform from a liquid to a gas and back again in response to ambient pressure.

**Refrigerant Oil** - Lubricant that is carried along with the refrigerant for the purpose of eliminating friction on moving components and reducing corrosion.

**Refrigerant Recovery** - The act of pumping refrigerant and oil from an A/C system through the use of a specialized machine for the purpose of salvaging and reusing (recycling) the refrigerant.

**SNAP - Significant New Alternative Product** - A program of the United States Environmental Protection Agency for the purpose of identifying new products that are either safer to use or that present a reduced danger to the environment and ozone layer.

**VDOT** - CCOT system utilizing a variable displacement compressor. (see CCOT)

# Mobile Air Conditioning Components

## - TECHNICAL INFORMATION -



### ENGLISH / METRIC EQUIVALENTS

| FRACTION | DECIMAL | MILLIMETERS | FRACTION | DECIMAL | MILLIMETERS |
|----------|---------|-------------|----------|---------|-------------|
| 1/64     | .015625 | .3969       | 33/64    | .515625 | 13.0969     |
| 1/32     | .03125  | .7938       | 17/32    | .53125  | 13.4938     |
| 3/64     | .046875 | 1.1906      | 35/64    | .546875 | 13.8906     |
| 1/16     | .0625   | 1.5875      | 9/16     | .5625   | 14.2875     |
| 5/64     | .078125 | 1.9844      | 37/64    | .578125 | 14.6844     |
| 3/32     | .09375  | 2.3813      | 19/32    | .5937   | 15.0813     |
| 7/64     | .109375 | 2.7781      | 39/64    | .609375 | 15.4781     |
| 1/8      | .1250   | 3.1750      | 5/8      | .6250   | 15.8750     |
| 9/64     | .140625 | 3.5719      | 41/64    | .640625 | 16.2719     |
| 5/32     | .15625  | 3.9688      | 21/32    | .65625  | 16.6688     |
| 11/64    | .171875 | 4.3656      | 43/64    | .671875 | 17.0656     |
| 3/16     | .1875   | 4.7625      | 11/16    | .6875   | 17.4625     |
| 13/64    | .203125 | 5.1594      | 45/64    | .703125 | 17.8594     |
| 7/32     | .21875  | 5.5562      | 23/32    | .71875  | 18.2563     |
| 15/64    | .234375 | 5.9531      | 47/64    | .734375 | 18.6531     |
| 1/4      | .2500   | 6.3500      | 3/4      | .7500   | 19.0500     |
| 17/64    | .265625 | 6.7469      | 49/64    | .765625 | 19.4469     |
| 9/32     | .28125  | 7.1438      | 25/32    | .78125  | 19.8438     |
| 19/64    | .296875 | 7.5406      | 51/64    | .796875 | 20.2406     |
| 5/16     | .3125   | 7.9375      | 13/16    | .8125   | 20.6375     |
| 21/64    | .328125 | 8.3344      | 53/64    | .828125 | 21.0344     |
| 11/32    | .34375  | 8.7313      | 27/32    | .84375  | 21.4313     |
| 23/64    | .359375 | 9.1281      | 55/64    | .859375 | 21.8281     |
| 3/8      | .3750   | 9.5250      | 7/8      | .8750   | 22.2250     |
| 25/64    | .390625 | 9.9219      | 57/64    | .890625 | 22.6219     |
| 13/32    | .40625  | 10.3188     | 29/32    | .90625  | 23.0188     |
| 27/64    | .421875 | 10.7156     | 59/64    | .921875 | 23.4156     |
| 7/16     | .4375   | 11.1125     | 15/16    | .9375   | 23.8125     |
| 29/64    | .453125 | 11.5094     | 61/64    | .953125 | 24.2094     |
| 15/32    | .46875  | 11.9063     | 31/32    | .96875  | 24.6062     |
| 31/64    | .484375 | 12.3031     | 63/64    | .984375 | 25.0031     |
| 1/2      | .5000   | 12.7000     | 1        | 1.0000  | 25.4000     |

### - ENGLISH / METRIC CONVERSIONS -

1mm = .03937 inches

1 inch = 25.4mm

Millimeters x .03937 = inches

Inches x 25.4 = millimeters



# Mobile Air Conditioning Components

## - TECHNICAL INFORMATION -

### FARENHEIT / CELSIUS CONVERSION

**Farenheit** = (Celsius times 1.8) plus 32      **Example:** 212 F = (100 C x 1.8) + 32

**Celsius** = (Farenheit minus 32) divided by 1.8      **Example:** 100 C = (212 – 32) ÷ 1.8

### LIQUID MEASURE

Liters x 61.022 = cubic inches  
Liters x 33.84 = fluid ounces  
Liters x .2642 = gallons  
.0295 Liters = one fluid ounce  
16 ounces = one pint  
32 ounces = one quart  
64 ounces = one half gallon  
128 ounces = one gallon  
3.785 Liters = one gallon  
one Liter = .2642 gallons

### VOLUME and AREA MEASURE

Cubic feet x 1728 = cubic inches  
Cubic yards x 27 = cubic feet  
1 cubic foot = 7.4804 U.S. gallons  
1 U.S. gallon = 231 cubic inches  
1 U.S. gallon = 8.336 pounds water  
1 cubic foot per second = 448.83 U.S. gallons per minute  
1 cubic foot per second = 646,317 gallons per 24 hours  
Circumference of a circle = 3.1416 x diameter  
Volume of a sphere = 0.5236 x cube of diameter  
Area of a circle = 0.7854 x square of the diameter  
Volume of a cylinder = area of base x height  
Volume of a prism = area of base x height  
Volume of a cone = 1/3 x area of base x height  
Volume of a pyramid = 1/3 x area of base x height

Doubling the diameter of a pipe increases volume 4 times.  
Or, increasing the diameter “n” times increases the volume “N<sup>2</sup>” times.

### TORQUE CONVERSION

1 pound = 4.44822 newtons  
lbs. / inch = .1129848 newton / meters

# Mobile Air Conditioning Components

## - TECHNICAL INFORMATION -



### STANDARD O-RING SIZES

| Part Number | Inside Diameter     | Cross Section      | Part Number | Inside Diameter     | Cross Section      |
|-------------|---------------------|--------------------|-------------|---------------------|--------------------|
| 005         | .101 ± .005         | .070 ± .003        | 045         | 3.989 ± .027        | .070 ± .003        |
| 006         | .114 ± .005         | .070 ± .003        | 046         | 4.239 ± .030        | .070 ± .003        |
| 007         | .145 ± .005         | .070 ± .003        | 047         | 4.489 ± .030        | .070 ± .003        |
| 008         | .176 ± .005         | .070 ± .003        | 048         | 4.739 ± .030        | .070 ± .003        |
| 009         | .208 ± .005         | .070 ± .003        | 049         | 4.989 ± .037        | .070 ± .003        |
| <b>010</b>  | <b>.239 ± .005</b>  | <b>.070 ± .003</b> | <b>050</b>  | <b>5.239 ± .037</b> | <b>.070 ± .003</b> |
| <b>011</b>  | <b>.301 ± .005</b>  | <b>.070 ± .003</b> | <b>106</b>  | <b>.174 ± .005</b>  | <b>.103 ± .003</b> |
| <b>012</b>  | <b>.364 ± .005</b>  | <b>.070 ± .003</b> | <b>107</b>  | <b>.206 ± .005</b>  | <b>.103 ± .003</b> |
| <b>013</b>  | <b>.426 ± .005</b>  | <b>.070 ± .003</b> | <b>108</b>  | <b>.237 ± .005</b>  | <b>.103 ± .003</b> |
| <b>014</b>  | <b>.489 ± .005</b>  | <b>.070 ± .003</b> | <b>109</b>  | <b>.299 ± .005</b>  | <b>.103 ± .003</b> |
| 015         | .551 ± .007         | .070 ± .003        | 110         | .362 ± .005         | .103 ± .003        |
| 016         | .614 ± .009         | .070 ± .003        | 111         | .424 ± .005         | .103 ± .003        |
| 017         | .676 ± .009         | .070 ± .003        | 112         | .487 ± .005         | .103 ± .003        |
| 018         | .739 ± .009         | .070 ± .003        | 113         | .549 ± .007         | .103 ± .003        |
| 019         | .801 ± .009         | .070 ± .003        | 114         | .612 ± .009         | .103 ± .003        |
| <b>020</b>  | <b>.864 ± .009</b>  | <b>.070 ± .003</b> | <b>115</b>  | <b>.674 ± .009</b>  | <b>.103 ± .003</b> |
| <b>021</b>  | <b>.926 ± .009</b>  | <b>.070 ± .003</b> | <b>116</b>  | <b>.737 ± .009</b>  | <b>.103 ± .003</b> |
| <b>022</b>  | <b>.989 ± .010</b>  | <b>.070 ± .003</b> | <b>117</b>  | <b>.799 ± .010</b>  | <b>.103 ± .003</b> |
| <b>023</b>  | <b>1.051 ± .010</b> | <b>.070 ± .003</b> | <b>118</b>  | <b>.862 ± .010</b>  | <b>.103 ± .003</b> |
| <b>024</b>  | <b>1.114 ± .010</b> | <b>.070 ± .003</b> | <b>119</b>  | <b>.924 ± .010</b>  | <b>.103 ± .003</b> |
| 025         | 1.176 ± .011        | .070 ± .003        | 120         | .987 ± .010         | .103 ± .003        |
| 026         | 1.239 ± .011        | .070 ± .003        | 121         | 1.049 ± .010        | .103 ± .003        |
| 027         | 1.301 ± .011        | .070 ± .003        | 122         | 1.112 ± .010        | .103 ± .003        |
| 028         | 1.364 ± .013        | .070 ± .003        | 123         | 1.174 ± .013        | .103 ± .003        |
| 029         | 1.489 ± .013        | .070 ± .003        | 124         | 1.237 ± .013        | .103 ± .003        |
| <b>030</b>  | <b>1.614 ± .013</b> | <b>.070 ± .003</b> | <b>125</b>  | <b>1.299 ± .013</b> | <b>.103 ± .003</b> |
| <b>031</b>  | <b>1.739 ± .015</b> | <b>.070 ± .003</b> | <b>126</b>  | <b>1.362 ± .013</b> | <b>.103 ± .003</b> |
| <b>032</b>  | <b>1.864 ± .015</b> | <b>.070 ± .003</b> | <b>127</b>  | <b>1.424 ± .013</b> | <b>.103 ± .003</b> |
| <b>033</b>  | <b>1.989 ± .018</b> | <b>.070 ± .003</b> | <b>128</b>  | <b>1.487 ± .013</b> | <b>.103 ± .003</b> |
| <b>034</b>  | <b>2.114 ± .018</b> | <b>.070 ± .003</b> | <b>129</b>  | <b>1.549 ± .015</b> | <b>.103 ± .003</b> |
| 035         | 2.239 ± .018        | .070 ± .003        | 130         | 1.612 ± .015        | .103 ± .003        |
| 036         | 2.364 ± .018        | .070 ± .003        | 131         | 1.674 ± .015        | .103 ± .003        |
| 037         | 2.489 ± .018        | .070 ± .003        | 132         | 1.737 ± .015        | .103 ± .003        |
| 038         | 2.614 ± .020        | .070 ± .003        | 133         | 1.799 ± .015        | .103 ± .003        |
| 039         | 2.739 ± .020        | .070 ± .003        | 134         | 1.862 ± .018        | .103 ± .003        |
| <b>040</b>  | <b>2.864 ± .020</b> | <b>.070 ± .003</b> | <b>135</b>  | <b>1.925 ± .018</b> | <b>.103 ± .003</b> |
| <b>041</b>  | <b>2.989 ± .024</b> | <b>.070 ± .003</b> | <b>136</b>  | <b>1.987 ± .018</b> | <b>.103 ± .003</b> |
| <b>042</b>  | <b>3.239 ± .024</b> | <b>.070 ± .003</b> | <b>137</b>  | <b>2.050 ± .018</b> | <b>.103 ± .003</b> |
| <b>043</b>  | <b>3.489 ± .024</b> | <b>.070 ± .003</b> | <b>138</b>  | <b>2.112 ± .018</b> | <b>.103 ± .003</b> |
| <b>044</b>  | <b>3.739 ± .027</b> | <b>.070 ± .003</b> | <b>139</b>  | <b>2.175 ± .018</b> | <b>.103 ± .003</b> |



# Mobile Air Conditioning Components

## - TECHNICAL INFORMATION -

### STANDARD O-RING SIZES

| Part Number | Inside Diameter     | Cross Section      | Part Number | Inside Diameter     | Cross Section      |
|-------------|---------------------|--------------------|-------------|---------------------|--------------------|
| 140         | 2.237 ± .018        | .103 ± .003        | 227         | 2.109 ± .018        | .139 ± .004        |
| 141         | 2.300 ± .020        | .103 ± .003        | 228         | 2.234 ± .020        | .139 ± .004        |
| 142         | 2.362 ± .020        | .103 ± .003        | 229         | 2.359 ± .020        | .139 ± .004        |
| 143         | 2.425 ± .020        | .103 ± .003        | 230         | 2.484 ± .020        | .139 ± .004        |
| 144         | 2.487 ± .020        | .103 ± .003        | 231         | 2.609 ± .020        | .139 ± .004        |
| <b>145</b>  | <b>2.550 ± .020</b> | <b>.103 ± .003</b> | <b>232</b>  | <b>2.734 ± .024</b> | <b>.139 ± .004</b> |
| <b>146</b>  | <b>2.612 ± .020</b> | <b>.103 ± .003</b> | <b>233</b>  | <b>2.859 ± .024</b> | <b>.139 ± .004</b> |
| <b>147</b>  | <b>2.675 ± .022</b> | <b>.103 ± .003</b> | <b>234</b>  | <b>2.984 ± .024</b> | <b>.139 ± .004</b> |
| <b>148</b>  | <b>2.737 ± .022</b> | <b>.103 ± .003</b> | <b>235</b>  | <b>3.109 ± .024</b> | <b>.139 ± .004</b> |
| <b>149</b>  | <b>2.800 ± .022</b> | <b>.103 ± .003</b> | <b>236</b>  | <b>3.234 ± .024</b> | <b>.139 ± .004</b> |
| 150         | 2.862 ± .022        | .103 ± .003        | 237         | 3.359 ± .024        | .139 ± .004        |
| 151         | 2.987 ± .024        | .103 ± .003        | 238         | 3.484 ± .024        | .139 ± .004        |
| 152         | 3.237 ± .024        | .103 ± .003        | 239         | 3.609 ± .028        | .139 ± .004        |
| 153         | 3.487 ± .024        | .103 ± .003        | 240         | 3.734 ± .028        | .139 ± .004        |
| 154         | 3.737 ± .028        | .103 ± .003        | 241         | 3.859 ± .028        | .139 ± .004        |
| <b>155</b>  | <b>3.987 ± .028</b> | <b>.103 ± .003</b> | <b>242</b>  | <b>3.984 ± .028</b> | <b>.139 ± .004</b> |
| <b>156</b>  | <b>4.237 ± .030</b> | <b>.103 ± .003</b> | <b>243</b>  | <b>4.109 ± .028</b> | <b>.139 ± .004</b> |
| <b>157</b>  | <b>4.487 ± .030</b> | <b>.103 ± .003</b> | <b>244</b>  | <b>4.234 ± .030</b> | <b>.139 ± .004</b> |
| <b>158</b>  | <b>4.737 ± .030</b> | <b>.103 ± .003</b> | <b>245</b>  | <b>4.359 ± .030</b> | <b>.139 ± .004</b> |
| <b>206</b>  | <b>.484 ± .007</b>  | <b>.139 ± .004</b> | <b>246</b>  | <b>4.484 ± .030</b> | <b>.139 ± .004</b> |
| 207         | .546 ± .007         | .139 ± .004        | 247         | 4.609 ± .030        | .139 ± .004        |
| 208         | .609 ± .009         | .139 ± .004        | 248         | 4.734 ± .030        | .139 ± .004        |
| 209         | .671 ± .010         | .139 ± .004        | 249         | 4.859 ± .035        | .139 ± .004        |
| 210         | .734 ± .010         | .139 ± .004        | 250         | 4.984 ± .035        | .139 ± .004        |
| 211         | .796 ± .010         | .139 ± .004        | 251         | 5.109 ± .035        | .139 ± .004        |
| <b>212</b>  | <b>.859 ± .010</b>  | <b>.139 ± .004</b> | <b>252</b>  | <b>5.234 ± .035</b> | <b>.139 ± .004</b> |
| <b>213</b>  | <b>.921 ± .010</b>  | <b>.139 ± .004</b> | <b>253</b>  | <b>5.359 ± .035</b> | <b>.139 ± .004</b> |
| <b>214</b>  | <b>.984 ± .010</b>  | <b>.139 ± .004</b> | <b>254</b>  | <b>5.484 ± .035</b> | <b>.139 ± .004</b> |
| <b>215</b>  | <b>1.046 ± .010</b> | <b>.139 ± .004</b> | <b>255</b>  | <b>5.609 ± .035</b> | <b>.139 ± .004</b> |
| <b>216</b>  | <b>1.109 ± .012</b> | <b>.139 ± .004</b> | <b>256</b>  | <b>5.734 ± .035</b> | <b>.139 ± .004</b> |
| 217         | 1.171 ± .012        | .139 ± .004        | 257         | 5.859 ± .035        | .139 ± .004        |
| 218         | 1.234 ± .012        | .139 ± .004        | 258         | 5.984 ± .035        | .139 ± .004        |
| 219         | 1.293 ± .012        | .139 ± .004        | 901         | .185 ± .006         | .056 ± .003        |
| 220         | 1.359 ± .012        | .139 ± .004        | 902         | .239 ± .006         | .064 ± .003        |
| 221         | 1.421 ± .012        | .139 ± .004        | 903         | .301 ± .006         | .064 ± .003        |
| <b>222</b>  | <b>1.484 ± .015</b> | <b>.139 ± .004</b> | <b>904</b>  | <b>.351 ± .007</b>  | <b>.072 ± .003</b> |
| <b>223</b>  | <b>1.609 ± .015</b> | <b>.139 ± .004</b> | <b>906</b>  | <b>.468 ± .007</b>  | <b>.078 ± .003</b> |
| <b>224</b>  | <b>1.734 ± .015</b> | <b>.139 ± .004</b> | <b>907</b>  | <b>.530 ± .007</b>  | <b>.082 ± .003</b> |
| <b>225</b>  | <b>1.859 ± .018</b> | <b>.139 ± .004</b> | <b>908</b>  | <b>.644 ± .009</b>  | <b>.087 ± .003</b> |
| <b>226</b>  | <b>1.984 ± .018</b> | <b>.139 ± .004</b> | <b>910</b>  | <b>.755 ± .009</b>  | <b>.097 ± .003</b> |



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## PARTS LISTINGS, OE CROSS & INDEX FOR MOBILE A/C APPLICATIONS

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# Mobile Air Conditioning Components

## - PARTS LISTING BY COMPRESSOR MODEL -



### Behr Bosch Axial Compressor

|        |                              |
|--------|------------------------------|
| 010C70 | Pickup Tube O-Ring           |
| 011C70 | Oil Plug O-Ring              |
| 012C70 | Pressure Relief Valve O-Ring |
| 014C70 | Crossover Tube O-Ring        |
| 113C70 | Shaft Seal Head O-Ring       |
| 22-027 | Shipping Pad                 |
| 22-214 | Shipping Plate               |
| 44-034 | Clutch Shim - .010 thick     |
| 44-035 | Clutch Shim - .015 thick     |
| 44-036 | Clutch Shim - .024 thick     |
| 44-037 | Clutch Shim - .030 thick     |
| 44-038 | Clutch Shim - .040 thick     |
| 44-058 | Oil Plug Metal Gasket        |
| 44-081 | Valve Core                   |
| 44-083 | Shaft Key                    |
| 44-119 | Access Port Cap (1/4")       |
| M34X3  | Shaft Seal Seat O-Ring       |
| M103X2 | Shell O-Ring                 |
| SH-175 | Pulley Retaining Ring        |
| SH-196 | Coil Retaining Ring          |

### Behr Bosch Wingcell Compressor

|         |                             |
|---------|-----------------------------|
| 013C70  | Discharge Connection O-Ring |
| 017C70  | Suction Connection O-Ring   |
| 028C70  | Head to Cylinder O-Ring     |
| 110C70  | Oil Plug O-Ring             |
| 156C70  | Cylinder O-Ring             |
| 219C70  | Rotor Plate O-Ring          |
| 44-026  | Thru Bolt Washer            |
| 99-026  | Nose Rubber Gasket          |
| HO125ST | Shaft Seal Retaining Ring   |
| M17X2.5 | Shaft Seal Head O-Ring      |

### Calsonic VF-15F & G Compressor

|         |                               |
|---------|-------------------------------|
| 012C70  | Pressure Relief Valve O-Ring  |
| 012C70  | Lower Control Valve O-Ring    |
| 013C70  | Lower Control Valve O-Ring    |
| 017C70  | Upper Control Valve O-Ring    |
| 115C70  | Upper Control Valve O-Ring    |
| 124C70  | Lip Seal O-Ring               |
| 157C70  | Case O-Ring                   |
| 44-062  | Head Gasket                   |
| 44-084  | Shaft Key                     |
| 55-018  | Lip Seal (single)             |
| 55-018D | Lip Seal (dual)               |
| 55-213  | Lip Seal Kit (single)         |
| 55-213D | Lip Seal Kit (double)         |
| HO-87   | Control Valve Retaining Ring  |
| K77-006 | Compressor Rebuild Gasket Kit |
| SH-156  | Pulley Retaining Ring         |
| VHO-124 | Shaft Seal Retaining Ring     |

### Calsonic VF-18 Compressor

|            |                              |
|------------|------------------------------|
| 012C70     | Pressure Relief Valve O-Ring |
| 012C70     | Lower Control Valve O-Ring   |
| 013C70     | Lower Control Valve O-Ring   |
| 017C70     | Upper Control Valve O-Ring   |
| 115C70     | Upper Control Valve O-Ring   |
| 55-018     | Lip Seal (single)            |
| 55-018D    | Lip Seal (dual)              |
| 55-213     | Lip Seal Kit (single)        |
| 55-213D    | Lip Seal Kit (double)        |
| HO-87      | Control Valve Retaining Ring |
| M122X2     | Case O-Ring                  |
| M25X3      | Lip Seal O-Ring              |
| SH-156     | Pulley Retaining Ring        |
| VHO-124    | Shaft Seal Retaining Ring    |
| SH-196.078 | Coil Retaining Ring          |

### Chrysler C-171/A-590 Compressor

|        |                                  |
|--------|----------------------------------|
| 213C70 | Shaft Seal O-Ring (alt.)         |
| 11-012 | Cylinder Seal (C-171, F&R A-590) |
| 11-013 | Cylinder Seal (A-590 center)     |
| 22-022 | Shipping Pad                     |
| 22-204 | Shipping Plate                   |
| 44-025 | Suction & Discharge Gasket       |
| 44-026 | Thru Bolt Gasket                 |
| 44-034 | Clutch Shim - .010 thick         |
| 44-035 | Clutch Shim - .015 thick         |
| 44-036 | Clutch Shim - .024 thick         |

### Chrysler C-171/A-590 Compressor (cont.)

|         |                                   |
|---------|-----------------------------------|
| 44-037  | Clutch Shim - .030 thick          |
| 44-038  | Clutch Shim - .040 thick          |
| 44-039  | Shaft Lock Washer                 |
| 44-040  | Shaft Lock Nut                    |
| 44-058  | Cylinder Head Gasket              |
| 44-083  | Shaft Key                         |
| 55-012  | Shaft Seal Carbon Assembly        |
| 55-013  | Shaft Seal Seat                   |
| 55-204  | Shaft Seal Kit w/ Head gasket     |
| 55-205  | Shaft Seal Kit w/o Head gasket    |
| 55-206  | Shaft Seal Kit (FS-6/C-171 combo) |
| K77-012 | Compressor Rebuild Gasket Kit     |
| M25X3   | Shaft Seal O-Ring                 |

### Chrysler 6C-17 Compressor

|             |                                    |
|-------------|------------------------------------|
| 012C70      | Pressure Relief Valve O-Ring       |
| 012C70      | Main Control Valve O-Ring - lower  |
| 016C70      | Secondary CV O-Ring - upper        |
| 017C70      | Secondary CV O-Ring - outer        |
| 018C70      | Main Control Valve O-Ring - outer  |
| 110C70      | Main Control Valve O-Ring - upper  |
| 118C70      | Switch Port O-Ring                 |
| 22-027      | Shipping Pad                       |
| 22-214      | Shipping Plate                     |
| 33-010      | Rear Head Gasket                   |
| 44-017      | Service Port Gasket (w/ 1/2" I.D.) |
| 44-018      | Service Port Gasket (w/ 5/8" I.D.) |
| 44-026      | Thru Bolt Gasket (small)           |
| 44-034      | Clutch Shim - .010 thick           |
| 44-035      | Clutch Shim - .015 thick           |
| 44-036      | Clutch Shim - .024 thick           |
| 44-037      | Clutch Shim - .030 thick           |
| 44-038      | Clutch Shim - .040 thick           |
| 44-042      | Service Port Gasket (91 & newer)   |
| 55-011C     | Triple Lip Seal (neoprene)         |
| 55-011H     | Triple Lip Seal (green HNBR)       |
| 55-208C     | Shaft Seal Kit (neoprene)          |
| 55-208H     | Shaft Seal Kit (green HNBR)        |
| HO-87       | Switch Retaining Ring              |
| K77-013     | Compressor Rebuild Gasket Kit      |
| M25X3       | Shaft Seal O-Ring                  |
| M124X2      | Shell O-Ring                       |
| VSH-156     | Pulley Retaining Ring              |
| VSH-196.078 | Coil Retaining Ring                |

### Chrysler RV-2 Compressor

|         |                               |
|---------|-------------------------------|
| 020C70  | EPR-ETRO O-Ring               |
| 119C70  | Muffler O-Ring                |
| 128C70  | Oil Pump O-Ring               |
| 220C70  | Shaft Seal Seat O-Ring        |
| 231C70  | Nose Plate Seal               |
| 11-006  | Suction & Discharge Lathe Cut |
| 22-021  | Shipping Pad                  |
| 22-202  | Shipping Plate                |
| 33-002  | Suction Port Gasket (fiber)   |
| 33-003  | Discharge Side Gasket (fiber) |
| 33-015  | Cylinder Head Gasket          |
| 33-016  | Valve Plate Gasket            |
| 33-017  | Base Gasket                   |
| 44-023  | Discharge Port Gasket (metal) |
| 44-044  | Suction Port Gasket (metal)   |
| 44-045  | Suction Port Gasket (metal)   |
| 44-081  | Refrigerant Valve Core        |
| 44-119  | Access Port Cap (1/4")        |
| 55-009  | Shaft Seal Carbon Assembly    |
| 55-010  | Shaft Seal Seat w/o O-Ring    |
| 55-207  | Shaft Seal Kit                |
| K77-011 | Compressor Rebuild Gasket Kit |

### Chrysler 6CA-17K Compressor

(see Nippondenso 6CA-17K)

### Daewoo (GM) V-5 Compressor

|        |                              |
|--------|------------------------------|
| 012C70 | Pressure Relief Valve O-Ring |
| 012C70 | Inner Control Valve O-Ring   |
| 013C70 | Inner Center CV O-Ring       |
| 017C70 | Outer Center CV O-Ring       |
| 115C70 | Outer Upper CV O-Ring        |
| 118C70 | Switch/Control Valve O-Ring  |
| 124C70 | Shaft Seal Retaining Ring    |

### Daewoo (GM) V-5 Compressor (cont.)

|            |                                    |
|------------|------------------------------------|
| 157C70     | Cylinder Head O-Ring               |
| 22-230-234 | Shipping Plates w/ Rubber Pads     |
| 44-010     | Sealing Washer - 5/8" thick        |
| 44-011     | Sealing Washer - 5/8" thin         |
| 44-012     | Sealing Washer - 3/4" thin         |
| 44-013     | Sealing Washer Insert - short      |
| 44-062     | Cylinder Head Gasket               |
| 44-084     | Shaft Key                          |
| 44-087     | Sealing Washer Insert - long       |
| 44-088     | Sealing Washer - yellow            |
| 44-089     | Sealing Washer - red               |
| 44-090     | Sealing Washer - green             |
| 44-130-134 | Plastic Shipping Plugs styles      |
| 44-152     | GM No. 10 Thinline Sealing Washer  |
| 44-161     | Aluminum Switch Port Plug          |
| 44-164     | Aluminum Switch port Plug (hollow) |
| 99-003     | S & D Port O-Ring (oval X-section) |
| HO-87      | Switch Retaining Ring              |
| HO-87      | Control Valve Retaining Ring       |
| K77-006    | Compressor Rebuild Gasket Kit      |
| K77-024A   | Sealing Washer Kit                 |
| K77-025B   | Sealing Washer Kit                 |
| K77-026C   | Sealing Washer Kit                 |
| K77-027D   | Sealing Washer Kit                 |
| K77-028E   | Sealing Washer Kit                 |
| SH-156     | Pulley Retaining Ring              |
| VHO-124    | Shaft Seal Retaining Ring          |

### Diesel Kiki BH Compressor

|         |                              |
|---------|------------------------------|
| 011C70  | Pressure Relief Valve O-Ring |
| 012C70  | Oil Plug O-Ring              |
| 114C70  | Discharge Port O-Ring        |
| 115C70  | Suction Port O-Ring          |
| 33-018  | Head Gasket                  |
| 33-019  | Valve Plate Gasket           |
| 44-081  | Refrigerant Valve Core       |
| 44-119  | Access Port Cap (1/4")       |
| 44-128  | Clutch Hub Bolt              |
| 55-028  | Shaft Seal Seat              |
| 55-029  | Shaft Seal Carbon Assembly   |
| M8X2    | Thru Bolt O-Ring             |
| M26X2.5 | Shaft Seal Seat O-Ring       |
| M110X2  | Shell O-Ring                 |
| VHO-124 | Shaft Seal Retaining Ring    |
| VSH-137 | Pulley Retaining Ring        |

### Diesel Kiki CH Compressor

|           |                              |
|-----------|------------------------------|
| 011C70    | Pressure Relief Valve O-Ring |
| 012C70    | Oil Plug O-Ring              |
| 157C70    | Center Shell O-Ring          |
| 44-081    | Refrigerant Valve Core       |
| 44-119    | Access Port Cap (1/4")       |
| 44-128    | Clutch Hub Bolt              |
| HO-106    | Lip Seal Retaining Ring      |
| M17.8X2.4 | Suction Port O-Ring          |
| M20X2.5   | Shaft Seal O-Ring            |
| M20X2.5   | Discharge Port O-Ring        |
| M111X2    | Front & Rear Shell O-Ring    |
| VSH-137   | Pulley Retaining Ring        |

### Diesel Kiki DCV-11 Compressor

|         |                          |
|---------|--------------------------|
| 22-033  | Shipping Pad             |
| 22-212  | Shipping Plate           |
| 44-034  | Clutch Shim - .010 thick |
| 44-035  | Clutch Shim - .015 thick |
| 44-036  | Clutch Shim - .024 thick |
| 44-037  | Clutch Shim - .030 thick |
| 44-038  | Clutch Shim - .040 thick |
| 44-128  | Clutch Hub Bolt          |
| M8X2    | Oil Plug O-Ring          |
| M17X2.4 | Rotor Valve O-Ring       |
| M25X3   | Lip Seal Retaining Ring  |
| VSH-137 | Pulley Retaining Ring    |

### Diesel Kiki DCW-17 Compressor

|        |                         |
|--------|-------------------------|
| 22-033 | Shipping Pad            |
| 22-212 | Shipping Plate          |
| 44-128 | Clutch Hub Bolt         |
| HO-106 | Lip Seal Retaining Ring |
| M8X2   | Oil Plug O-Ring         |



# Mobile Air Conditioning Components

## - PARTS LISTING BY COMPRESSOR MODEL -

### Diesel Kiki DCW-17 Compressor (cont.)

|         |                                   |
|---------|-----------------------------------|
| M9.5X2  | Pressure Relief Valve O-Ring      |
| M20X2.5 | Lip Seal O-Ring                   |
| M21X2   | Valve Plate Seal O-Ring           |
| VHO-106 | Lip Seal Retaining Ring (beveled) |
| VSH-137 | Pulley Retaining Ring             |

### Diesel Kiki DKS-13 Compressor

|         |                           |
|---------|---------------------------|
| 011C70  | Oil Plug O-Ring           |
| 113C70  | Shaft Seal Head O-Ring    |
| 115C70  | Discharge Port O-Ring     |
| 117C70  | Suction Port O-Ring       |
| 22-020  | Shipping Pad              |
| 22-201  | Shipping Plate            |
| 44-026  | Thru Bolt Gasket          |
| 44-128  | Clutch Hub Bolt (20mm)    |
| 99-025  | Center Case Gasket        |
| HO-106  | Shaft Seal Retaining Ring |
| M10X2.5 | Oil Plug O-Ring           |
| M26X2.5 | Seal Seat O-Ring          |
| M110X2  | F & R Case O-Ring         |
| SH-137  | Pulley Retaining Ring     |

### Diesel Kiki DKS-15CH Compressor

|           |                              |
|-----------|------------------------------|
| 011C70    | Pressure Relief Valve O-Ring |
| 012C70    | Oil Plug O-Ring              |
| 157C70    | Center Shell O-Ring          |
| M17.8X2.4 | Discharge Port O-Ring        |
| M20X2.5   | Suction Port O-Ring          |
| M20X2.5   | Lip Seal O-Ring              |
| 44-081    | Access Port Valve Core       |
| 44-119    | Access port Cap              |
| 44-123    | Clutch Shim - .015 thick     |
| 44-124    | Clutch Shim - .020 thick     |
| 44-128    | Clutch Hub Bolt              |
| HO-106    | Lip Seal Retaining Ring      |
| SH-137    | Pulley Retaining Ring        |

### Diesel Kiki DKS-16H Compressor

|         |                           |
|---------|---------------------------|
| 010C70  | Oil Plug O-Ring           |
| 114C70  | Shaft Seal Head O-Ring    |
| 124C70  | Shaft Seal Seat O-Ring    |
| 22-033  | Shipping Pad              |
| 22-212  | Shipping Plate            |
| 44-039  | Shaft Lock Washer         |
| 44-040  | Shaft Lock Nut            |
| 99-025  | Center Case Gasket        |
| HO-118  | Shaft Seal Retaining Ring |
| M8X2    | Thru Bolt O-Ring          |
| M10X2.5 | Oil Plug O-Ring           |
| M25X3   | Lip Seal O-Ring           |

### Diesel Kiki DKS-17G Compressor

|         |                           |
|---------|---------------------------|
| 011C70  | Oil Plug O-Ring           |
| 113C70  | Shaft Seal Head O-Ring    |
| 115C70  | Discharge Port O-Ring     |
| 117C70  | Suction Port O-Ring       |
| 22-020  | Shipping Pad              |
| 22-201  | Shipping Plate            |
| 44-026  | Thru Bolt Gasket          |
| M10X2   | Oil Plug O-Ring           |
| M26X2.5 | Shaft Seal Seat O-Ring    |
| M114X2  | Case O-Ring               |
| SH-137  | Pulley Retaining Ring     |
| VHO-106 | Shaft Seal Retaining Ring |

### Ford FS-6 Compressor

|          |                                     |
|----------|-------------------------------------|
| 116C70   | Suction & Discharge Port O-Ring     |
| 910C70   | Suction & Discharge Port O-Ring     |
| 213C70   | Shaft Seal Head O-Ring              |
| 248C70   | Cylinder O-Ring (alt. to lathe cut) |
| 11-014   | Cylinder Lathe Cut Seal             |
| 22-024   | Shipping Pad (neoprene)             |
| 22-024BU | Shipping Pad (butyl)                |
| 22-025   | Shipping Pad - Direct Mount. (neo.) |
| 22-025BU | Shipping Pad - Direct Mnt. (butyl)  |
| 22-205   | Shipping Plate                      |
| 22-207   | Shipping Plate - Direct Mount       |
| 44-026   | Thru Bolt Gasket                    |
| 44-034   | Clutch Shim - .010 thick            |
| 44-035   | Clutch Shim - .015 thick            |
| 44-036   | Clutch Shim - .024 thick            |

### Ford FS-6 Compressor (cont.)

|             |                                  |
|-------------|----------------------------------|
| 44-037      | Clutch Shim - .030 thick         |
| 44-038      | Clutch Shim - .040 thick         |
| 44-039      | Shaft Lock Washer                |
| 44-040      | Shaft Lock Nut                   |
| 44-059      | Cylinder Head Gasket             |
| 99-001      | S & D Port O-Ring (oval - red)   |
| 99-001B     | S & D Port O-Ring (oval - black) |
| 99-002      | S & D Port O-Ring (oval - green) |
| K77-009     | Compressor Rebuild Gasket Kit    |
| M25X3       | Shaft Seal Seat O-Ring           |
| SH-156      | Pulley Retaining Ring            |
| SH-196      | Coil Retaining Ring (.062 thick) |
| VSH-196.078 | Coil Retaining Ring (.078 thick) |

### Ford FX-15/FS-10 Compressor

|          |                                 |
|----------|---------------------------------|
| 155C70   | Shell O-Ring                    |
| 211C70   | Suction & Discharge O-Ring      |
| 22-026BU | Shipping Pad (butyl)            |
| 22-206   | Shipping Plate                  |
| 44-030   | Mounting Bushing (short)        |
| 44-031   | Mounting Bushing (long)         |
| 44-077   | Cylinder gasket (93 & newer)    |
| 44-123   | Clutch Shim - .015 thick        |
| 44-124   | Clutch Shim - .020 thick        |
| 44-125   | Clutch Shim - .034 thick        |
| 44-126   | Clutch Shim - .050 thick        |
| 44-127   | Clutch Shim - .060 thick        |
| 44-128   | Clutch Hub Bolt                 |
| 44-145   | Plastic Shipping Plug           |
| 55-014C  | Lip Seal - neoprene             |
| 55-014H  | Lip Seal - green HNBR           |
| 55-203C  | Shaft Seal Kit - neoprene       |
| 55-203H  | Shaft Seal Kit - green HNBR     |
| HO-90    | Lip Seal Retaining Ring         |
| HO-118   | Pulley Retaining Ring           |
| VHO-118  | Pulley Retaining Ring - beveled |

### Ford VF-2 Compressor (scroll)

|         |                                 |
|---------|---------------------------------|
| 211C70  | Discharge Port O-Ring           |
| 213C70  | Suction Port O-Ring             |
| 22-027  | Shipping Pad                    |
| 22-214  | Shipping Plate                  |
| 44-026  | Thru Bolt Washer                |
| 55-014H | Lip Seal - green HNBR           |
| HO-90   | Lip Seal Retaining Ring         |
| HO-118  | Pulley Retaining Ring           |
| VHO-118 | Pulley Retaining Ring - beveled |

### Ford HR-980 Compressor (Tecomseh)

|         |                             |
|---------|-----------------------------|
| 013C70  | Discharge Springlock O-Ring |
| 015C70  | Suction Springlock O-Ring   |
| 44-034  | Clutch Shim - .010 thick    |
| 44-035  | Clutch Shim - .015 thick    |
| 44-036  | Clutch Shim - .024 thick    |
| 44-037  | Clutch Shim - .030 thick    |
| 44-038  | Clutch Shim - .040 thick    |
| 44-039  | Clutch Lock Washer          |
| 44-040  | Clutch Lock Nut             |
| 55-015  | Shaft Seal Carbon Assembly  |
| 55-016  | Shaft Seal Seat             |
| VHO-124 | Shaft Seal Retaining Ring   |

### Ford Nippondenso 6E-171/171A Compressor (see Nippondenso Compressors)

### GM A-6 Compressor

|            |                                 |
|------------|---------------------------------|
| 010C70     | Oil Tube O-Ring                 |
| 012C70     | Pressure Relief Valve O-Ring    |
| 024C70     | Switch Port Adaptor O-Ring      |
| 113C70     | Shaft Seal Head Assembly O-Ring |
| 118C70     | Switch Port O-Ring              |
| 124C70     | Shaft Seal Seat O-Ring          |
| 156C70     | Shell O-Ring                    |
| 211C70     | Suction & Discharge Port O-Ring |
| 22-230/234 | Shipping Plate w/ Rubber Pads   |
| 33-042     | Rear Head Gasket (mylar)        |
| 33-043     | Front Nose Gasket (mylar)       |
| 44-091     | Shaft Key                       |
| 44-130     | Shipping Plug                   |
| 44-154     | Shaft Lock Nut                  |
| 44-156     | Clutch Hub Spacer               |

### GM A-6 Compressor (cont.)

|         |                                     |
|---------|-------------------------------------|
| 44-161  | Aluminum Switch Port Plug           |
| 44-164  | Aluminum Switch port Plug (hollow)  |
| HO-75   | Clutch Hub Retaining Ring           |
| HO-87   | Switch Retaining Ring               |
| K77-001 | Compressor Rebuild O-Ring Kit       |
| SH-156  | Pulley Retaining Ring               |
| SH-175  | Coil Retaining Ring                 |
| VHO-124 | Shaft Seal Retaining Ring - beveled |
| VSH-156 | Pulley Retaining Ring - beveled     |

### GM R-4 Compressor

|            |                                    |
|------------|------------------------------------|
| 012C70     | Pressure Relief Valve O-Ring       |
| 113C70     | Shaft Seal Head O-Ring             |
| 118C70     | Switch O-Ring                      |
| 124C70     | Shaft Seal O-Ring                  |
| 211C70     | S & D Port O-Ring                  |
| 258C70     | Shell O-Ring                       |
| 11-010     | Nose Seal Lathe Cut                |
| 22-020     | Shipping Pad - neoprene            |
| 22-020BU   | Shipping Pad - butyl               |
| 22-023     | Shipping Pad - round neoprene      |
| 22-023BU   | Shipping Pad - round green HNBR    |
| 22-230-234 | Shipping Plates w/ Rubber Pads     |
| 44-010     | Sealing Washer - 5/8" thick        |
| 44-011     | Sealing Washer - 5/8" thin         |
| 44-012     | Sealing Washer - 3/4" thin         |
| 44-013     | Sealing Washer Insert - short      |
| 44-084     | Shaft Key - lightweight models     |
| 44-087     | Sealing Washer Insert - long       |
| 44-088     | Sealing Washer - yellow            |
| 44-089     | Sealing Washer - red               |
| 44-090     | Sealing Washer - green             |
| 44-091     | Shaft Key - pulley rim models      |
| 44-130-134 | Shipping Port Plugs styles         |
| 44-154     | Shaft Lock Nut                     |
| 44-155     | Pulley Rim Bolt                    |
| 44-156     | Clutch Hub Spacer                  |
| 44-157     | Belleville Washer                  |
| 44-158     | Rear Crank Washer                  |
| 44-159     | Tab Washer                         |
| 44-161     | Aluminum Switch Port Plug          |
| 44-164     | Aluminum Switch port Plug (hollow) |
| 99-003     | S & D Port O-Ring - oval           |
| HO-87      | Switch Retaining Ring              |
| K77-002    | Compressor Rebuild O-Ring Kit      |
| K77-024A   | Sealing Washer Kit                 |
| K77-025B   | Sealing Washer Kit                 |
| K77-026C   | Sealing Washer Kit                 |
| K77-027D   | Sealing Washer Kit                 |
| K77-028E   | Sealing Washer Kit                 |
| SH-156     | Pulley Retaining Ring              |
| SH-175     | Coil Retaining Ring                |
| VHO-124    | Shaft Seal Retaining Ring          |

### GM DA-6/HR-6 Compressor

|            |                                    |
|------------|------------------------------------|
| 011C70     | Discharge Crossover O-Ring         |
| 012C70     | Pressure Relief Valve O-Ring       |
| 118C70     | Switch Port O-Ring                 |
| 123C70     | Mechanical Seal Seat O-Ring        |
| 124C70     | Shaft Seal O-Ring                  |
| 155C70     | Cylinder O-Ring                    |
| 211C70     | S & D Port O-Ring                  |
| 22-230/234 | Shipping Plates w/ Rubber Pads     |
| 44-010     | Sealing Washer - 5/8" thick        |
| 44-011     | Sealing Washer - 5/8" thin         |
| 44-012     | Sealing Washer - 3/4" thin         |
| 44-013     | Sealing Washer Insert - short      |
| 44-027     | Thru Bolt Gasket - late model      |
| 44-070     | HR-6 Cylinder Head Gasket          |
| 44-084     | Shaft Key                          |
| 44-087     | Sealing Washer Insert - long       |
| 44-088     | Sealing Washer - yellow            |
| 44-089     | Sealing Washer - red               |
| 44-090     | Sealing Washer - green             |
| 44-130-134 | Plastic Shipping Plugs styles      |
| 44-161     | Aluminum Switch Port Plug          |
| 44-164     | Aluminum Switch port Plug (hollow) |
| 99-003     | S & D Port O-Ring (oval X-section) |
| HO-87      | Switch Retaining Ring              |
| HO-118     | Shaft Seal Retaining Ring (early)  |
| K77-024A   | Sealing Washer Kit                 |

# Mobile Air Conditioning Components

## - PARTS LISTING BY COMPRESSOR MODEL -



### GM DA-6/HR-6 Compressor

|          |                         |
|----------|-------------------------|
| K77-025B | Sealing Washer Kit      |
| K77-026C | Sealing Washer Kit      |
| K77-027D | Sealing Washer Kit      |
| K77-028E | Sealing Washer Kit      |
| SH-156   | Pulley Retaining Ring   |
| VHO-124  | Lip Seal Retaining Ring |

### GM HD-6/HT-6 Compressor

|            |                                     |
|------------|-------------------------------------|
| 012C70     | Pressure Relief Valve O-Ring        |
| 118C70     | Switch Port O-Ring                  |
| 124C70     | Shaft Seal O-Ring                   |
| 155C70     | Cylinder Head O-Ring                |
| 22-230/234 | Shipping Plates w/ Rubber Pads      |
| 44-010     | Sealing Washer - 5/8" thick         |
| 44-011     | Sealing Washer - 5/8" thin          |
| 44-012     | Sealing Washer - 3/4" thin          |
| 44-013     | Sealing Washer Insert - short       |
| 44-027     | Thru Bolt Gasket                    |
| 44-060     | HR-6 Head Gasket (6.90 mm holes)    |
| 44-065     | HU-6 Head Gasket (large O.D. shaft) |
| 44-070     | HR-6 Head Gasket (7.80 mm holes)    |
| 44-071     | Head Gasket (HT-6 93 & up, front)   |
| 44-072     | Head Gasket (HT-6 93 & up, rear)    |
| 44-084     | Shaft Key - lightweight models      |
| 44-087     | Sealing Washer Insert - long        |
| 44-088     | Sealing Washer - yellow             |
| 44-089     | Sealing Washer - red                |
| 44-090     | Sealing Washer - green              |
| 44-130-134 | Plastic Shipping Plugs styles       |
| 44-152     | GM No. 10 Thinline Sealing Washer   |
| 44-161     | Aluminum Switch Port Plug           |
| 44-164     | Aluminum Switch port Plug (hollow)  |
| HO-87      | Switch Retaining Ring               |
| K77-024A   | Sealing Washer Kit                  |
| K77-025B   | Sealing Washer Kit                  |
| K77-026C   | Sealing Washer Kit                  |
| K77-027D   | Sealing Washer Kit                  |
| K77-028E   | Sealing Washer Kit                  |
| VHO-124    | Shaft Seal Retaining Ring           |
| VSH-156    | Pulley Retaining Ring               |

### GM HU-6 Compressor

|            |                                    |
|------------|------------------------------------|
| 012C70     | Pressure Relief Valve O-Ring       |
| 118C70     | Switch Port O-Ring                 |
| M31X3      | Shaft Seal O-Ring                  |
| 155C70     | Cylinder Head O-Ring               |
| 22-230/234 | Shipping Plates w/ Rubber Pads     |
| 44-026     | Thru Bolt Gasket                   |
| 44-065     | Front Head Gasket                  |
| 44-072     | Rear Head Gasket                   |
| 44-084     | Shaft Key                          |
| 44-130-134 | Plastic Shipping Plugs styles      |
| 44-161     | Aluminum Switch Port Plug          |
| 44-164     | Aluminum Switch port Plug (hollow) |
| 44-218     | Hub Lock Nut                       |
| HO-87      | Switch Retaining Ring              |
| VHO-124    | Shaft Seal Retaining Ring          |
| VSH-156    | Pulley Retaining Ring              |

### GM V-5 Compressor

|            |                                   |
|------------|-----------------------------------|
| 012C70     | Inner Control Valve O-Ring        |
| 013C70     | Inner Center CV O-Ring            |
| 017C70     | Outer Center CV O-Ring            |
| 115C70     | Outer Upper CV O-Ring             |
| 118C70     | Switch / Control Valve O-Ring     |
| 124C70     | Shaft Seal O-Ring                 |
| 157C70     | Cylinder Head O-Ring              |
| 22-230-234 | Shipping Plates w/ Rubber Pads    |
| 44-010     | Sealing Washer - 5/8" thick       |
| 44-011     | Sealing Washer - 5/8" thin        |
| 44-012     | Sealing Washer - 3/4" thin        |
| 44-013     | Sealing Washer Insert - short     |
| 44-062     | Cylinder Head Gasket              |
| 44-084     | Shaft Key                         |
| 44-087     | Sealing Washer Insert - long      |
| 44-088     | Sealing Washer - yellow           |
| 44-089     | Sealing Washer - red              |
| 44-090     | Sealing Washer - green            |
| 44-130-134 | Plastic Shipping Plugs styles     |
| 44-152     | GM No. 10 Thinline Sealing Washer |
| 44-161     | Aluminum Switch Port Plug         |

### GM V-5 Compressor (cont.)

|          |                                    |
|----------|------------------------------------|
| 44-164   | Aluminum Switch port Plug (hollow) |
| 99-003   | S & D Port O-Ring (oval X-section) |
| HO-87    | Switch Retaining Ring              |
| HO-87    | Control Valve Retaining Ring       |
| K77-006  | Compressor Rebuild Gasket Kit      |
| K77-024A | Sealing Washer Kit                 |
| K77-025B | Sealing Washer Kit                 |
| K77-026C | Sealing Washer Kit                 |
| K77-027D | Sealing Washer Kit                 |
| K77-028E | Sealing Washer Kit                 |
| SH-156   | Pulley Retaining Ring              |
| VHO-124  | Shaft Seal Retaining Ring          |

### GM V-7 Compressor

|            |                                     |
|------------|-------------------------------------|
| 012C70     | Inner Control Valve O-Ring          |
| 013C70     | Inner Center CV O-Ring              |
| 017C70     | Outer Center CV O-Ring              |
| 115C70     | Outer Upper CV O-Ring               |
| 118C70     | Control Valve O-Ring                |
| 157C70     | Cylinder Head O-Ring                |
| 44-010     | Sealing Washer - 5/8" thick         |
| 44-011     | Sealing Washer - 5/8" thin          |
| 44-012     | Sealing Washer - 3/4" thin          |
| 44-013     | Sealing Washer Insert - short       |
| 44-084     | Shaft Key                           |
| 44-087     | Sealing Washer Insert - long        |
| 44-088     | Sealing Washer - yellow             |
| 44-089     | Sealing Washer - red                |
| 44-090     | Sealing Washer - green              |
| 44-130-134 | Plastic Shipping Plugs styles       |
| 44-161     | Aluminum Switch Port Plug           |
| 44-164     | Aluminum Switch port Plug (hollow)  |
| HO-87      | Control Valve Retaining Ring        |
| K77-024A   | Sealing Washer Kit                  |
| K77-025B   | Sealing Washer Kit                  |
| K77-026C   | Sealing Washer Kit                  |
| K77-027D   | Sealing Washer Kit                  |
| K77-028E   | Sealing Washer Kit                  |
| M25X3      | Shaft Seal Retaining Ring           |
| VHO-124    | Shaft Seal Retaining Ring (beveled) |
| VSH-156    | Pulley Retaining Ring (beveled)     |

### Hitachi MJ-110 / MJ-123 Compressor

|            |                                 |
|------------|---------------------------------|
| 114C70     | Suction & Discharge Port O-Ring |
| 22-034     | Shipping Pad                    |
| 22-203     | Shipping Plate                  |
| 33-037     | Valve Plate Gasket (small bore) |
| 33-038     | Valve Plate Gasket (large bore) |
| 33-039     | Front Case Gasket               |
| 44-034     | Clutch Shim - .010 thick        |
| 44-035     | Clutch Shim - .015 thick        |
| 44-036     | Clutch Shim - .024 thick        |
| 44-037     | Clutch Shim - .030 thick        |
| 44-038     | Clutch Shim - .040 thick        |
| 44-039     | Shaft Lock Washer               |
| 44-081     | Refrigerant Valve Core          |
| 44-119     | Access Port Cap                 |
| M12X2.5    | Crossover Port O-Ring           |
| M15X3      | Shaft Seal Head O-Ring          |
| M27X2.5    | Shaft Seal Seat O-Ring          |
| M60X2      | Inner Valve Plate O-Ring        |
| M106X2     | Outer Valve Plate O-Ring        |
| M112X2     | Rear Head O-Ring                |
| SH-196.078 | Coil Retaining Ring             |
| VSH-156    | Pulley Retaining Ring           |

### Hitachi MJ-167 Compressor

|         |                                 |
|---------|---------------------------------|
| 114C70  | Suction & Discharge Port O-Ring |
| 22-034  | Shipping Pad                    |
| 22-203  | Shipping Plate                  |
| 33-039  | Front Case Gasket               |
| 44-034  | Clutch Shim - .010 thick        |
| 44-035  | Clutch Shim - .015 thick        |
| 44-036  | Clutch Shim - .024 thick        |
| 44-037  | Clutch Shim - .030 thick        |
| 44-038  | Clutch Shim - .040 thick        |
| 44-039  | Shaft Lock Washer               |
| 44-081  | Refrigerant Valve Core          |
| 44-119  | Access Port Cap                 |
| M12X2.5 | Crossover Port O-Ring           |
| M27X2.5 | Shaft Seal Seat O-Ring          |

### Hitachi MJ-167 Compressor (cont.)

|            |                          |
|------------|--------------------------|
| M60X2      | Inner Valve Plate O-Ring |
| M106X2     | Outer Valve Plate O-Ring |
| M112X2     | Rear Head O-Ring         |
| SH-196.078 | Coil Retaining Ring      |
| VSH-156    | Pulley Retaining Ring    |

### Hitachi MJS-130 Compressor

|            |                                 |
|------------|---------------------------------|
| 22-034     | Shipping Pad                    |
| 22-203     | Shipping Plate                  |
| 33-039     | Front Case Gasket               |
| 44-034     | Clutch Shim - .010 thick        |
| 44-035     | Clutch Shim - .015 thick        |
| 44-036     | Clutch Shim - .024 thick        |
| 44-037     | Clutch Shim - .030 thick        |
| 44-038     | Clutch Shim - .040 thick        |
| 44-039     | Shaft Lock Washer               |
| 44-081     | Refrigerant Valve Core          |
| 44-119     | Access Port Cap                 |
| M15X2.5    | Suction & Discharge Port O-Ring |
| M12X2.5    | Crossover Port O-Ring           |
| M27X2.5    | Shaft Seal Seat O-Ring          |
| M60X2      | Inner Valve Plate O-Ring        |
| M106X2     | Outer Valve Plate O-Ring        |
| M112X2     | Rear Head O-Ring                |
| SH-196.078 | Coil Retaining Ring             |
| VSH-156    | Pulley Retaining Ring           |

### Hitachi MJS-170 Compressor

|            |                                 |
|------------|---------------------------------|
| 22-034     | Shipping Pad                    |
| 22-203     | Shipping Plate                  |
| 33-004     | Front Case Gasket               |
| 44-034     | Clutch Shim - .010 thick        |
| 44-035     | Clutch Shim - .015 thick        |
| 44-036     | Clutch Shim - .024 thick        |
| 44-037     | Clutch Shim - .030 thick        |
| 44-039     | Shaft Lock Washer               |
| 44-081     | Refrigerant Valve Core          |
| 44-119     | Access Port Cap                 |
| M15X2.5    | Suction & Discharge Port O-Ring |
| M12X2.5    | Crossover Port O-Ring           |
| M27X2.5    | Shaft Seal Seat O-Ring          |
| M68X2      | Inner Valve Plate O-Ring        |
| M110X2     | Outer Valve Plate O-Ring        |
| M115X2     | Rear Head O-Ring                |
| SH-196.078 | Coil Retaining Ring             |
| VSH-156    | Pulley Retaining Ring           |

### Hitachi SWP-123 / SWP-167 Compressor

|         |                        |
|---------|------------------------|
| 114C70  | Discharge Port O-Ring  |
| 116C70  | Suction Port O-Ring    |
| 22-034  | Shipping Pad           |
| 22-203  | Shipping Plate         |
| 33-034  | Rear Head Gasket       |
| 33-035  | Valve Plate Gasket     |
| 33-036  | Front Case Gasket      |
| 33-040  | Front Head Gasket      |
| 33-041  | Crossover Plate Gasket |
| 44-081  | Refrigerant Valve Core |
| 44-119  | Access Port Cap        |
| M6X2    | Oil Pickup Tube O-Ring |
| M13X2.5 | Crossover Tube O-Ring  |
| M15X3   | Shaft Seal Head O-Ring |
| M29.2x3 | Shaft Seal Seat O-Ring |
| M112X2  | Rear Case O-Ring       |

### Keihin 150L / 150R Compressor

|            |                                 |
|------------|---------------------------------|
| 015C70     | Discharge Port O-Ring           |
| 050C70     | Case O-Ring (some 150L)         |
| 114C70     | Suction Port O-Ring             |
| 121C70     | Shaft Seal Seat O-Ring          |
| 22-032     | Shipping Pad (discharge)        |
| 22-033     | Shipping Pad (suction)          |
| 22-011     | Shipping Plate (discharge)      |
| 22-212     | Shipping Plate (suction)        |
| 44-081     | Refrigerant Valve Core          |
| 44-119     | Access Port Cap                 |
| M16.5X2.43 | Shaft Seal Head O-Ring          |
| M48X2      | Cylinder Head O-Ring            |
| M103X2     | Inner Case O-Ring (150L - R-12) |
| VHO-124    | Shaft Seal Retaining Ring       |
| 016C70     | Suction & Discharge Port O-Ring |





# Mobile Air Conditioning Components

## - PARTS LISTING BY COMPRESSOR MODEL -

### Matsushita N13A / NL-1300 Compressor

|         |                                 |
|---------|---------------------------------|
| 152C70  | Case O-Ring (alternate)         |
| 904C70  | Pressure Relief Valve O-Ring    |
| 910C70  | Switch Port O-Ring              |
| 22-033  | Shipping Pad                    |
| 22-212  | Shipping Plate                  |
| 44-026  | Thru Bolt Gasket                |
| 55-020  | Carbon Seal Assembly            |
| 99-021  | Manifold Gasket (molded rubber) |
| HO-87   | Shaft Seal Retaining Ring       |
| M12X2.5 | Manifold Block Side Port O-Ring |
| M84X2   | Case O-Ring                     |
| SH-137  | Pulley Retaining Ring           |

### Matsushita SA Compressor

|            |                                    |
|------------|------------------------------------|
| 112C70     | Carbon Seal Head O-Ring            |
| 116C70     | Shaft Seal Seat O-Ring             |
| 904C70     | Pressure Relief Valve O-Ring       |
| 910C70     | Switch Port O-Ring                 |
| 22-033     | Shipping Pad                       |
| 22-212     | Shipping Plate                     |
| 44-026     | Thru Bolt Gasket                   |
| 55-020     | Carbon Seal Assembly               |
| HO-87      | Switch / Shaft Seal Retaining Ring |
| M12X2.5    | Manifold Block Side Port O-Ring    |
| M13.1X1.56 | Switch Port O-Ring                 |
| M76X2      | Case O-Ring                        |
| SH-137     | Pulley Retaining Ring              |

### Mitsubishi FX-80 Compressor

|         |                         |
|---------|-------------------------|
| 039C70  | Front Nose O-Ring       |
| 111C70  | Discharge Port O-Ring   |
| 114C70  | Suction Port O-Ring     |
| 116C70  | Shaft Seal O-Ring       |
| 22-033  | Shipping Pad            |
| 22-212  | Shipping Plate          |
| 44-040  | Shaft Lock Nut          |
| 44-081  | Refrigerant Valve Core  |
| 44-119  | Access Port Cap         |
| 55-020  | Carbon Seal Assembly    |
| 55-021  | Shaft Seal Seat         |
| 55-224  | Shaft Seal Kit          |
| M103X2  | Front Head O-Ring       |
| SH-156  | Pulley Retaining Ring   |
| VHO-106 | Lip Seal Retaining Ring |

### Mitsubishi FX-105 Compressor

|         |                                  |
|---------|----------------------------------|
| 012C70  | Inner Control Valve O-Ring       |
| 014C70  | Center Control Valve O-Ring      |
| 016C70  | Outer Control Valve O-Ring       |
| 043C70  | Nose Plate O-Ring                |
| 111C70  | Discharge Port O-Ring            |
| 114C70  | Suction Port O-Ring              |
| 112C70  | Carbon Seal Head O-Ring          |
| 116C70  | Shaft Seal Seat O-Ring           |
| 157C70  | Case O-Ring                      |
| 902C70  | Rear Scroll Plate O-Ring (small) |
| 903C70  | Rear Case Bolt O-Ring            |
| 22-033  | Shipping Pad                     |
| 22-212  | Shipping Plate                   |
| 44-040  | Shaft Lock Nut                   |
| 44-081  | Refrigerant Valve Core           |
| 44-119  | Access Port Cap                  |
| 55-020  | Carbon Seal Assembly             |
| 55-021  | Shaft Seal Seat                  |
| 55-224  | Shaft Seal Kit                   |
| M14X1.5 | Rear Scroll Plate O-Ring (large) |
| M15X2.5 | Rear Sensor O-Ring               |
| M120X2  | Front Housing O-Ring             |
| SH-156  | Pulley Retaining Ring            |

### Mitsubishi MSC-90 Compressor

|        |                                 |
|--------|---------------------------------|
| 016C70 | Sensor O-Ring                   |
| 111C70 | Discharge Port O-Ring           |
| 114C70 | Suction Port O-Ring             |
| 116C70 | Lip Seal O-Ring                 |
| 903C70 | Pressure Relief Valve O-Ring    |
| 22-033 | Shipping Pad                    |
| 22-212 | Shipping Plate                  |
| 44-040 | Shaft Lock Nut                  |
| 99-022 | Manifold Gasket (molded rubber) |
| HO-90  | Lip Seal Retaining Ring         |

### Mitsubishi MSC-90 Compressor (cont.)

|        |                                |
|--------|--------------------------------|
| M7X1.5 | Rear Housing Bolt O-Ring       |
| M103X2 | Rear Scroll to Housing O-Ring  |
| M111X2 | Front Scroll to Housing O-Ring |
| SH-156 | Pulley Retaining Ring          |

### Mitsubishi MSC-105 Compressor

|        |                                 |
|--------|---------------------------------|
| 016C70 | Sensor O-Ring                   |
| 111C70 | Suction Port O-Ring             |
| 114C70 | Discharge Port O-Ring           |
| 116C70 | Lip Seal O-Ring                 |
| 903C70 | Pressure Relief Valve O-Ring    |
| 22-027 | Shipping Pad                    |
| 22-214 | Shipping Plate                  |
| 44-040 | Shaft Lock Nut                  |
| 99-023 | Manifold Gasket (molded rubber) |
| 99-024 | Rear Scroll to Housing Gasket   |
| HO-90  | Lip Seal Retaining Ring         |
| M7X1.5 | Rear Housing Bolt O-Ring        |
| M111X2 | Front Scroll to Housing O-Ring  |
| SH-156 | Pulley Retaining Ring           |

### Nihon DKV-14A / 14D Compressor

|           |                                    |
|-----------|------------------------------------|
| 22-033    | Shipping Pad                       |
| 22-212    | Shipping Plate                     |
| 44-026    | Thru Bolt Gasket                   |
| 44-034    | Clutch Shim - .010 thick           |
| 44-035    | Clutch Shim - .015 thick           |
| 44-036    | Clutch Shim - .024 thick           |
| 44-037    | Clutch Shim - .030 thick           |
| 44-038    | Clutch Shim - .040 thick           |
| 44-128    | Clutch Hub Bolt                    |
| 99-019    | Front Stage Gasket (molded rubber) |
| 99-020    | Rear Stage Gasket (molded rubber)  |
| M8X2      | Pressure Relief Valve O-Ring       |
| M17.6X2.4 | Rotor Pressure Valve O-Ring        |
| M25X3     | Lip Seal O-Ring                    |
| SH-137    | Pulley Retaining Ring              |
| VHO-118   | Lip Seal Retaining Ring            |

### Nihon DKV-14B Compressor

|           |                           |
|-----------|---------------------------|
| 155C70    | Case O-Ring               |
| 22-027    | Shipping Pad              |
| 22-214    | Shipping Plate            |
| 44-034    | Clutch Shim - .010 thick  |
| 44-035    | Clutch Shim - .015 thick  |
| 44-036    | Clutch Shim - .024 thick  |
| 44-037    | Clutch Shim - .030 thick  |
| 44-038    | Clutch Shim - .040 thick  |
| 44-128    | Clutch Hub Bolt           |
| 99-005    | Front Nose Gasket         |
| HO-125    | Shaft Seal Retaining Ring |
| M17.6X2.4 | Carbon Seal Head O-Ring   |
| M26X2.5   | Seal Seat O-Ring          |
| SH-137    | Pulley Retaining Ring     |

### Nihon DKV-14C Compressor

|         |                                     |
|---------|-------------------------------------|
| 024C70  | Front Rotor Seal O-Ring             |
| 028C70  | Rear Rotor Seal O-Ring              |
| 110C70  | Suction Port O-Ring                 |
| 113C70  | Carbon Seal Head O-Ring             |
| 116C70  | Seal Seat O-Ring (.737 ID, .103 CS) |
| 154C70  | Case O-Ring                         |
| 22-034  | Shipping Pad                        |
| 22-203  | Shipping Plate                      |
| 44-026  | Thru Bolt Gasket                    |
| 44-034  | Clutch Shim - .010 thick            |
| 44-035  | Clutch Shim - .015 thick            |
| 44-037  | Clutch Shim - .030 thick            |
| 44-038  | Clutch Shim - .040 thick            |
| 44-128  | Clutch Hub Bolt                     |
| M14.2X2 | Discharge Port O-Ring               |
| M26X2.5 | Large Seal Seat O-Ring              |

### Nihon NVR Compressor

|           |                                |
|-----------|--------------------------------|
| 22-034    | Shipping Pad                   |
| 22-203    | Shipping Plate                 |
| 44-026    | Head Bolt Gasket               |
| M25X3     | Lip Seal O-Ring                |
| M28X2.5   | Seal Seat O-Ring               |
| M17.8X2.4 | Carbon Seal Head O-Ring        |
| M34X2     | Front Rotor Seal O-Ring (late) |

### Nihon NVR Compressor (cont.)

|        |                        |
|--------|------------------------|
| M40X2  | Rear Rotor Seal O-Ring |
| M108X3 | Case O-Ring            |

### Nippondenso 6E-171/171A Compressor (Ford)

|             |                                 |
|-------------|---------------------------------|
| 213C70      | Shaft Seal Seat O-Ring          |
| 910C70      | Suction & Discharge Port O-Ring |
| 22-024      | Shipping Pad                    |
| 22-205      | Shipping Plate (w/ chg. hole)   |
| 33-029      | Cylinder Head Gasket (fiber)    |
| 44-026      | Thru Bolt Gasket                |
| 44-034      | Clutch Shim - .010 thick        |
| 44-035      | Clutch Shim - .015 thick        |
| 44-036      | Clutch Shim - .024 thick        |
| 44-037      | Clutch Shim - .030 thick        |
| 44-038      | Clutch Shim - .040 thick        |
| 44-039      | Clutch Lock Washer              |
| 44-040      | Clutch Lock Nut                 |
| 44-081      | Refrigerant Valve Core          |
| 44-083      | Shaft Key                       |
| 55-012      | Carbon Seal Assembly            |
| 55-013      | Shaft Seal Seat (w/o O-Ring)    |
| 55-202      | Shaft Seal Kit                  |
| 44-119      | Access Port Cap                 |
| K77-021     | 6E-171 Rebuild Gasket Kit       |
| M110X2      | Front & Rear Case O-Ring (171)  |
| M118.5X3    | Case O-Ring (171A)              |
| M120X2      | Center Case O-Ring (171)        |
| SH-156      | Pulley Retaining Ring           |
| SH-196      | Coil Retaining Ring             |
| VSH-196.078 | Coil Retaining Ring (thick)     |
| VSH-156     | Pulley Retaining Ring (beveled) |

### Nippondenso 6CA17C Compressor (Chrysler / Mercedes)

|            |                                   |
|------------|-----------------------------------|
| 012C70     | Pressure Relief Valve O-Ring      |
| 018C70     | Main Control Valve O-Ring (outer) |
| 110C70     | Main Control Valve O-Ring (upper) |
| 118C70     | Switch Port O-Ring                |
| 906C70     | Main Control Valve O-Ring (lower) |
| 22-024     | Shipping Pad                      |
| 22-205     | Shipping Plate (w/ chg. hole)     |
| 44-026     | Thru Bolt Gasket                  |
| 44-034     | Clutch Shim - .010 thick          |
| 44-035     | Clutch Shim - .015 thick          |
| 44-036     | Clutch Shim - .024 thick          |
| 44-037     | Clutch Shim - .030 thick          |
| 44-038     | Clutch Shim - .040 thick          |
| 44-040     | Shaft Lock Nut                    |
| 44-144     | Shaft Key                         |
| 55-011C    | Triple Lip Seal (neoprene)        |
| 55-011H    | Triple Lip Seal (green HNBR)      |
| 55-218C    | Shaft Seal Kit (neoprene)         |
| 55-218H    | Shaft Seal Kit (green HNBR)       |
| 99-016     | Front Case Gasket (molded rubber) |
| 99-017     | Rear Case Gasket (molded rubber)  |
| HO-87      | Switch Retaining Ring             |
| HO-87      | Secondary CV Retaining Ring       |
| HO-112     | Lip Seal Retaining Ring           |
| M14.2X2    | Secondary CV O-Ring (lower)       |
| M17.8X2.4  | Secondary CV O-Ring (upper)       |
| M25X3      | Lip Seal O-Ring                   |
| SH-196.078 | Coil Retaining Ring               |
| VHO-124    | Main Control Valve Retaining Ring |
| VSH-156    | Pulley Retaining Ring             |
| VSH-156    | Rear Thrust Race Retaining Ring   |

### Nippondenso 6P-127/127A, B, D/6P-148

|        |                                 |
|--------|---------------------------------|
| 116C70 | Suction & Discharge Port O-Ring |
| 213C70 | Shaft Seal Seat O-Ring          |
| 244C70 | Case O-Ring (alternate)         |
| 22-024 | Shipping Pad                    |
| 22-205 | Shipping Plate (w/ chg. hole)   |
| 33-014 | Cylinder Head Gasket (fiber)    |
| 44-026 | Thru Bolt Gasket                |
| 44-034 | Clutch Shim - .010 thick        |
| 44-035 | Clutch Shim - .015 thick        |
| 44-036 | Clutch Shim - .024 thick        |
| 44-037 | Clutch Shim - .030 thick        |
| 44-038 | Clutch Shim - .040 thick        |
| 44-039 | Shaft Lock Washer               |
| 44-040 | Shaft Lock Nut                  |

# Mobile Air Conditioning Components

## - PARTS LISTING BY COMPRESSOR MODEL -



### Nippondenso 6P-127/127A, B, D/6P-148 (cont.)

|             |                               |
|-------------|-------------------------------|
| 44-083      | Shaft Key                     |
| 55-012      | Carbon Seal Assembly          |
| 55-013      | Shaft Seal Seat (w/o O-Ring)  |
| 55-202      | Shaft Seal Kit                |
| K77-023     | Compressor Rebuild Gasket Kit |
| M108X3      | Case O-Ring                   |
| SH-156      | Pulley Retaining Ring         |
| VSH-196.078 | Coil Retaining Ring (thick)   |

### Nippondenso 6P-134 Compressor

|            |                                 |
|------------|---------------------------------|
| 116C70     | Suction & Discharge Port O-Ring |
| 11-022     | Center Cylinder Lathe Cut       |
| 11-023     | Front & Rear Cylinder Lathe Cut |
| 22-024     | Shipping Pad                    |
| 22-205     | Shipping Plate (w/ chg. hole)   |
| 33-033     | Cylinder Head Gasket (fiber)    |
| 44-026     | Thru Bolt Gasket                |
| 44-034     | Clutch Shim - .010 thick        |
| 44-035     | Clutch Shim - .015 thick        |
| 44-036     | Clutch Shim - .024 thick        |
| 44-037     | Clutch Shim - .030 thick        |
| 44-038     | Clutch Shim - .040 thick        |
| 44-039     | Shaft Lock Washer               |
| 44-040     | Shaft Lock Nut                  |
| 44-081     | Refrigerant Valve Core          |
| 44-083     | Shaft Key                       |
| 44-119     | Access Port Cap                 |
| 55-012     | Carbon Seal Assembly            |
| 55-013     | Shaft Seal Seat (w/o O-Ring)    |
| 55-202     | Shaft Seal Kit                  |
| HO-112     | Shaft Seal Retaining Ring       |
| K77-039    | Compressor Rebuild Gasket Kit   |
| M114X2     | Front & Rear Cylinder O-Ring    |
| M116X2     | Center Cylinder O-Ring          |
| SH-156     | Pulley Retaining Ring           |
| SH-196.078 | Coil Retaining Ring             |

### Nippondenso 6SEU12C Compressor

|        |                                |
|--------|--------------------------------|
| 012C70 | Pressure Relief Valve O-Ring   |
| 021C70 | Control Valve Connector O-Ring |
| M23X2  | Upper Control Valve O-Ring     |
| 44-027 | Through Bolt Washer            |
| 44-123 | Clutch Shim - .015 thick       |
| 44-124 | Clutch Shim - .020 thick       |
| 44-125 | Clutch Shim - .034 thick       |
| 99-038 | Manifold Rubber Gasket         |
| HO106  | Control Valve Retaining Ring   |

### Nippondenso 7SB Compressor

|         |                               |
|---------|-------------------------------|
| 018C70  | Control Valve O-Ring (upper)  |
| 119C70  | Suction Port O-Ring           |
| 905C70  | Discharge Port O-Ring         |
| 22-027  | Shipping Pad                  |
| 22-214  | Shipping Plate                |
| 44-128S | Clutch Hub Bolt               |
| M10X2.5 | Control Valve O-Ring (center) |
| M20X2.5 | Lip Seal O-Ring               |
| SH-137  | Pulley Retaining Ring         |
| SH-156  | Coil Retaining Ring           |
| VSH-156 | Coil Retaining Ring (beveled) |

### Nippondenso 7SEU16C Compressor

|        |                              |
|--------|------------------------------|
| 012C70 | Pressure Relief Valve O-Ring |
| 120C70 | Control Valve Base O-Ring    |
| M25X3  | Lip Seal O-Ring              |
| 44-027 | Through Bolt Washer          |
| HO-87  | Rear Bearing Retaining Ring  |

### Nippondenso 10P-13/15 Compressor

|        |                                 |
|--------|---------------------------------|
| 116C70 | Suction & Discharge Port O-Ring |
| 207C70 | Carbon Seal O-Ring              |
| 213C70 | Shaft Seal Seat O-Ring          |
| 910C70 | S & D Port O-Ring (alternate)   |
| 22-024 | Shipping Pad                    |
| 22-205 | Shipping Plate (w/ chg. hole)   |
| 44-026 | Thru Bolt Gasket                |
| 44-034 | Clutch Shim - .010 thick        |
| 44-035 | Clutch Shim - .015 thick        |
| 44-036 | Clutch Shim - .024 thick        |
| 44-037 | Clutch Shim - .030 thick        |
| 44-038 | Clutch Shim - .040 thick        |

### Nippondenso 10P-13/15 Compressor (cont.)

|             |                                   |
|-------------|-----------------------------------|
| 44-039      | Shaft Lock Washer                 |
| 44-040      | Shaft Lock Nut                    |
| 44-144      | Shaft Key                         |
| 55-012      | Carbon Seal Assembly              |
| 55-013      | Shaft Seal Seat (w/o O-Ring)      |
| 55-202      | Shaft Seal Kit (mechanical)       |
| 55-011C     | Triple Lip Seal (neoprene)        |
| 55-011H     | Triple Lip Seal (green HNBR)      |
| 55-218C     | Lip Seal Kit (neoprene)           |
| 55-218H     | Lip Seal Kit (green HNBR)         |
| 99-001      | S & D Port O-Ring (red - oval)    |
| 99-001B     | S & D Port O-Ring (black - oval)  |
| 99-002      | S & D Port O-Ring (green - oval)  |
| HO-112      | Shaft Seal Retaining Ring         |
| K77-020     | Compressor Rebuild O-Ring Kit     |
| M23X2       | Valve Plate to Head O-Ring        |
| M25X3       | Lip Seal O-Ring                   |
| M34X3       | Speed Sensor O-Ring               |
| M35X3       | Sensor O-Ring (Mercedes / Toyota) |
| M104X2.5    | Case O-Ring                       |
| SH-156      | Pulley Retaining Ring             |
| SH-196      | Coil Retaining Ring               |
| VSH-196.078 | Coil Retaining Ring (thick)       |
| VSH-156     | Pulley Retaining Ring (beveled)   |

### Nippondenso 10P-17C Compressor

|             |                                 |
|-------------|---------------------------------|
| 116C70      | Suction & Discharge Port O-Ring |
| 157C70      | Cylinder O-Ring                 |
| 213C70      | Shaft Seal Seat O-Ring          |
| 11-012      | Cylinder Lathe Cut Seal         |
| 22-024      | Shipping Pad                    |
| 22-024BU    | Shipping Pad (butyl)            |
| 22-205      | Shipping Plate (w/ chg. hole)   |
| 44-026      | Thru Bolt Gasket                |
| 44-034      | Clutch Shim - .010 thick        |
| 44-035      | Clutch Shim - .015 thick        |
| 44-036      | Clutch Shim - .024 thick        |
| 44-037      | Clutch Shim - .030 thick        |
| 44-038      | Clutch Shim - .040 thick        |
| 44-039      | Shaft Lock Washer               |
| 44-040      | Shaft Lock Nut                  |
| 44-144      | Shaft Key                       |
| 55-012      | Carbon Seal Assembly            |
| 55-013      | Shaft Seal Seat (w/o O-Ring)    |
| 55-202      | Shaft Seal Kit (mechanical)     |
| HO-112      | Shaft Seal Retaining Ring       |
| K77-034     | Compressor Rebuild O-Ring Kit   |
| M23X2       | Valve Plate to Head O-Ring      |
| SH-156      | Pulley Retaining Ring           |
| SH-196      | Coil Retaining Ring             |
| VSH-156     | Pulley Retaining Ring (beveled) |
| VSH-196.078 | Coil Retaining Ring (thick)     |

### Nippondenso 10PO8E Compressor

|         |                                   |
|---------|-----------------------------------|
| 116C70  | Suction & Discharge O-Ring        |
| 213C70  | Shaft Seal Seat O-Ring (pre '92)  |
| 910C70  | Suction & Discharge O-Ring (alt.) |
| 22-030  | Shipping pad                      |
| 22-210  | Shipping Plate                    |
| 44-039  | Clutch Lock Washer                |
| 44-040  | Clutch Lock Nut                   |
| 44-081  | Refrigerant Valve Core            |
| 44-119  | Access Port Cap                   |
| 44-123  | Clutch Shim - .015 thick          |
| 44-124  | Clutch Shim - .020 thick          |
| 44-125  | Clutch Shim - .034 thick          |
| 44-126  | Clutch Shim - .050 thick          |
| 44-127  | Clutch Shim - .060 thick          |
| 44-144  | Shaft Key                         |
| 55-012  | Carbon Seal Assembly (pre '92)    |
| 55-013  | Shaft Seal Seat (pre '92)         |
| 55-202  | Shaft Seal Kit (pre '92)          |
| 55-011C | Lip Seal (neoprene)               |
| 55-011H | Lip Seal green HNBR               |
| 55-218C | Lip Seal Kit (neoprene)           |
| 55-218H | Lip Seal Kit (green HNBR)         |
| K77-038 | Compressor Rebuild O-Ring Kit     |
| M15X2.5 | Manifold O-Ring                   |
| M25X3   | Lip Seal O-Ring                   |
| M103X2  | Cylinder O-Ring                   |
| SH-137  | Pulley Retaining Ring             |

### Nippondenso 10PO8E Compressor (cont.)

|         |                                     |
|---------|-------------------------------------|
| VHO-118 | Shaft Seal Retaining Ring (pre '92) |
| VHO-124 | Lip Seal Retaining Ring             |

### Nippondenso 10PA-15/10PA-17/10PA-20 Compressors

|           |                                  |
|-----------|----------------------------------|
| 006C70    | Control Valve Stop O-Ring        |
| 012C70    | Pressure Relief Valve O-Ring     |
| 156C70    | Case O-Ring (10PA-15C)           |
| 157C70    | Case O-Ring (10PA-20C)           |
| 211C70    | S & D Manifold Port O-Ring       |
| 22-029    | Shipping Pad                     |
| 22-209    | Shipping Plate w/ Rubber Pad     |
| 33-005    | Fiber Head gasket (10PA17VC)     |
| 44-128S   | Clutch Hub Bolt                  |
| 99-012    | Manifold Gasket                  |
| 99-013    | Manifold Gasket (10PA-15C)       |
| K77-035   | Rebuild O-Ring Kit (10PA-15C)    |
| K77-036   | Rebuild O-Ring Kit (10PA-17A)    |
| K77-037   | Rebuild O-Ring Kit (10PA-20C)    |
| M9.6X1.9  | Caontrol Valve O-Ring (10PA17VC) |
| M11.9X1.9 | Control Valve Mount O-Ring       |
| M15X2.5   | Suction & Discharge Port O-Ring  |
| M17.6X2.4 | Control Valve Outer Seal O-Ring  |
| M25X3     | Lip Seal O-Ring                  |
| M34X3     | Speed Sensor O-Ring              |
| M108X3    | Case O-Ring (10PA17)             |
| SH-156    | Coil Retaining Ring              |
| VHO-118   | Lip Seal Retaining Ring          |
| VSH-156   | Coil Retaining Ring (beveled)    |

### Nippondenso 10S15L/10S17C/10S20C/10C20F/10C20H Compressors

|            |                                |
|------------|--------------------------------|
| 118C70     | Switch O-Ring                  |
| M11.49X2.3 | Discharge Port O-Ring          |
| M13.6X2.5  | Suction Port O-Ring            |
| 22-234     | Shipping Plate with Rubber Pad |
| 44-027     | Through Bolt Gasket            |
| 44-073     | Discharge Port Metal gasket    |
| 44-074     | Suction Port Metal Gasket      |
| 44-123     | Clutch Shim - .015 thick       |
| 44-124     | Clutch Shim - .020 thick       |
| 44-125     | Clutch Shim - .034 thick       |
| 44-126     | Clutch Shim - .050 thick       |
| 44-127     | Clutch Shim - .060 thick       |
| 44-128S    | Clutch Hub Bolt                |
| 44-161     | Aluminum Switch Port Plug      |
| 44-194     | Shipping Plate Bolt            |
| HO-87      | Switch Retaining Ring          |
| SH-118     | Clutch Coil Retaining Ring     |

### Nippondenso SCS08/SCS08C Compressor

|         |                              |
|---------|------------------------------|
| 157C70  | Shell O-Ring                 |
| M23X2   | Sensor Port O-Ring           |
| 44-123  | Clutch Shim - .015 thick     |
| 44-124  | Clutch Shim - .020 thick     |
| 44-125  | Clutch Shim - .034 thick     |
| 44-128S | Clutch Hub Bolt              |
| 99-001  | Scroll Counter Weight O-Ring |
| VSH-156 | Clutch Coil Retaining Ring   |

### Nippondenso TV-10 Compressor

|         |                              |
|---------|------------------------------|
| 013C70  | Discharge Port O-Ring        |
| 015C70  | Suction Port O-Ring          |
| 907C70  | Sensor Side Seal O-Ring      |
| 22-033  | Shipping Pad                 |
| 22-212  | Shipping Plate               |
| 44-026  | Thru Bolt Gasket             |
| 44-083  | Shaft Key (long)             |
| 44-123  | Clutch Shim - .015 thick     |
| 44-124  | Clutch Shim - .020 thick     |
| 44-125  | Clutch Shim - .034 thick     |
| 44-126  | Clutch Shim - .050 thick     |
| 44-127  | Clutch Shim - .060 thick     |
| 44-128S | Clutch Hub Bolt              |
| 44-144  | Shaft Key (short)            |
| 55-013  | Shaft Seal Seat (w/o O-Ring) |
| M15X2.5 | Carbon Seal Head O-Ring      |
| M25X3   | Shaft Seal Seat O-Ring       |
| M73X2   | Case O-Ring                  |
| SH-137  | Pulley Retaining Ring        |
| VSH-156 | Coil Retaining Ring          |



# Mobile Air Conditioning Components

## - PARTS LISTING BY COMPRESSOR MODEL -

### Nippondenso TV-12/TV-14 Compressor

|         |                               |
|---------|-------------------------------|
| 012C70  | Pressure Relief Valve O-Ring  |
| 017C70  | Switch Cover O-Ring           |
| 152C70  | Case O-Ring                   |
| 907C70  | Sensor Side Seal O-Ring       |
| 22-033  | Shipping Pad                  |
| 22-212  | Shipping Plate                |
| 44-026  | Thru Bolt Gasket              |
| 44-123  | Clutch Shim - .015 thick      |
| 44-124  | Clutch Shim - .020 thick      |
| 44-126  | Clutch Shim - .050 thick      |
| 44-128S | Clutch Hub Bolt               |
| 55-013  | Shaft Seal Seat               |
| 99-007  | Crossover Tube O-Ring (small) |
| 99-008  | Crossover Tube O-Ring (large) |
| M14.2X2 | Manifold Block Side O-Ring    |
| M15X2.5 | Carbon Seal Head O-Ring       |
| M25X3   | Shaft Seal Seat O-Ring        |
| SH-137  | Pulley Retaining Ring         |
| VSH-156 | Coil Retaining Ring           |

### Nippondenso Honda (HADYSYS) Type I & II Compressor

|            |                                |
|------------|--------------------------------|
| 012C70     | Oil Plug O-Ring                |
| M20X2.5    | Lip Seal O-Ring                |
| M126X2     | Center Shell O-Ring            |
| 22-230/234 | Shipping Plates w/ Rubber Pads |
| HO-106     | Lip Seal Retaining Ring        |

### Sannden 505/507/575 Compressor

|         |                                |
|---------|--------------------------------|
| 012C70  | Pressure Relief Valve O-Ring   |
| 114C70  | Discharge Port O-Ring          |
| 116C70  | Suction Port O-Ring            |
| 117C70  | Shaft Seal Seat O-Ring         |
| 11-011  | Shell Lathe Cut Seal           |
| 33-011  | Valve Plate Gasket             |
| 33-013  | Head Gasket                    |
| 33-027  | Head Gasket (alternate)        |
| 33-028  | Valve Plate Gasket (alternate) |
| 44-040  | Shaft Lock Nut                 |
| 44-119  | Access Port Cap                |
| 44-142  | Shaft Key                      |
| 55-020  | Carbon Seal Assembly           |
| 55-021  | Shaft Seal Seat (w/o O-Ring)   |
| SH-137  | Pulley Retaining Ring          |
| VSH-156 | Coil Retaining Ring (beveled)  |

### Sannden 507 / 508 / 510 Compressor

|             |                                 |
|-------------|---------------------------------|
| 012C70      | Oil Plug O-Ring                 |
| 114C70      | Discharge Port O-Ring           |
| 116C70      | Suction Port O-Ring             |
| 211C70      | S & D Port O-Ring (GM Style)    |
| 11-011      | Shell Lathe Cut Seal            |
| 22-020      | Shipping Pad (GM Style)         |
| 22-201      | Shipping Plate (GM Style)       |
| 33-011      | Valve Plate Gasket              |
| 33-013      | Head Gasket                     |
| 33-027      | Head Gasket (alternate)         |
| 33-028      | Valve Plate Gasket (alternate)  |
| 44-141      | Shaft Key                       |
| 55-015      | Carbon Seal Assembly            |
| 55-016      | Shaft Seal Seat                 |
| 55-209      | Shaft Seal Kit                  |
| K77-041     | Compressor Rebuild Gasket Kit   |
| M30X2       | Shaft Seal Seat O-Ring          |
| VSH-156     | Pulley Retaining Ring (beveled) |
| VSH-196.078 | Coil Retaining Ring             |

### Sannden SD5H Compressor

|         |                              |
|---------|------------------------------|
| 012C70  | Oil Plug O-Ring              |
| 114C70  | Discharge Port O-Ring        |
| 116C70  | Suction Port O-Ring          |
| 211C70  | S & D Port O-Ring (GM style) |
| 11-011  | Front Housing Lathe Cut Seal |
| 22-020  | Shipping Pad (GM style)      |
| 22-201  | Shipping Plate (GM style)    |
| 33-011  | Valve Plate Gasket           |
| 33-013  | Head Gasket                  |
| 44-141  | Shaft Key                    |
| 55-015  | Carbon Seal Assembly         |
| 55-016  | Shaft Seal Seat              |
| M20X2.5 | Lip Seal O-Ring              |

### Sannden SD5H Compressor (cont.)

|             |                        |
|-------------|------------------------|
| M30X2       | Shaft Seal Seat O-Ring |
| VSH-196.078 | Coil Retaining Ring    |
| VSH-156     | Pulley Retaining Ring  |

### Sannden 708 / 709 Compressor

|         |                                 |
|---------|---------------------------------|
| 012C70  | Oil Plug O-Ring                 |
| 013C70  | Discharge Fitting O-Ring (1/2") |
| 015C70  | Suction Fitting O-Ring (5/8")   |
| 114C70  | Discharge Fitting O-Ring        |
| 116C70  | Suction Fitting O-Ring          |
| 119C70  | Shaft Seal Seat O-Ring          |
| 11-011  | Shell Lathe Cut Seal            |
| 33-030  | Head Gasket                     |
| 33-031  | Valve Plate Gasket              |
| 44-040  | Shaft Lock Nut                  |
| 44-141  | Shaft Key                       |
| K77-040 | Compressor Rebuild Gasket Kit   |
| SH-137  | Pulley Retaining Ring           |
| SH-156  | Coil Retaining Ring             |
| VHO106  | Shaft Seal Retaining Ring       |
| VSH-156 | Coil Retaining Ring (beveled)   |

### Sannden SD7B10 Compressor

|         |                              |
|---------|------------------------------|
| 012C70  | Pressure Relief Valve O-Ring |
| 22-033  | Shipping Pad                 |
| 22-212  | Shipping Plate               |
| 44-034  | Clutch Shim - .010 thick     |
| 44-035  | Clutch Shim - .015 thick     |
| 44-036  | Clutch Shim - .024 thick     |
| 44-040  | Shaft Lock Nut               |
| 44-128S | Shipping Plate Bolt          |
| HO-106  | Lip Seal Retaining Ring      |
| M20X2.5 | Lip Seal O-Ring              |
| SH-175  | Coil Retaining Ring          |

### Sannden SD7H Compressor

|         |                              |
|---------|------------------------------|
| 012C70  | Oil Plug O-Ring              |
| 013C70  | Discharge Port O-Ring        |
| 015C70  | Suction Port O-Ring          |
| 119C70  | Shaft Seal Seat O-Ring       |
| 211C70  | S & D Port O-Ring (GM style) |
| 22-020  | Shipping Pad (GM style)      |
| 22-201  | Shipping Plate (GM style)    |
| 33-030  | Head Gasket                  |
| 33-031  | Valve Plate Gasket           |
| 40-040  | Shaft Lock Nut               |
| 44-141  | Shaft Key                    |
| SH-137  | Pulley Retaining Ring        |
| VHO-106 | Lip Seal Retaining Ring      |
| VSH-156 | Coil Retaining Ring          |

### Sannden SD7V16 Compressor

|         |                                 |
|---------|---------------------------------|
| 007C70  | Internal Equalizer Tube O-Ring  |
| 211C70  | Suction & Discharge Port O-Ring |
| 904C70  | Oil Plug O-Ring                 |
| 22-020  | Shipping Pad                    |
| 22-201  | Shipping Plate                  |
| 44-034  | Clutch Shim - .010 thick        |
| 44-035  | Clutch Shim - .015 thick        |
| 44-036  | Clutch Shim - .024 thick        |
| 44-037  | Clutch Shim - .030 thick        |
| 44-038  | Clutch Shim - .040 thick        |
| 44-040  | Shaft Lock Nut                  |
| 44-130  | Shipping Port Plug (plastic)    |
| 44-141  | Shaft Key                       |
| M20X2.5 | Lip Seal O-Ring                 |
| M20X2.5 | Control Valve O-Ring            |
| M115X2  | Case O-Ring                     |
| SH-175  | Coil Retaining Ring             |
| VHO-106 | Lip Seal Retaining Ring         |
| VSH-137 | Pulley Retaining Ring           |

### Sannden SD7 (U4618) Compressor

|        |                              |
|--------|------------------------------|
| 012C70 | Pressure Relief Valve O-Ring |
| 211C70 | Suction & Discharge O-Ring   |
| 904C70 | Oil Plug O-Ring              |
| 11-011 | Case Lathe Cut Seal          |
| 22-020 | Shipping Pad                 |
| 22-201 | Shipping Plate               |
| 33-030 | Head Gasket                  |
| 33-031 | Valve Plate Gasket           |

### Sannden SD7 (U4618) Compressor (cont.)

|         |                              |
|---------|------------------------------|
| 44-034  | Clutch Shim - .010 thick     |
| 44-035  | Clutch Shim - .015 thick     |
| 44-036  | Clutch Shim - .024 thick     |
| 44-037  | Clutch Shim - .030 thick     |
| 44-038  | Clutch Shim - .040 thick     |
| 44-040  | Shaft Lock Nut               |
| 44-130  | Shipping Port Plug (plastic) |
| 44-141  | Shaft Key                    |
| M20X2.5 | Lip Seal O-Ring              |
| SH-175  | Coil Retaining Ring          |
| VHO-106 | Lip Seal Retaining Ring      |
| VSH-137 | Pulley Retaining Ring        |

### Sannden SD709CA / CP Compressor

|         |                                   |
|---------|-----------------------------------|
| 011C70  | Charging Port O-Ring              |
| 11-011  | Front Housing Lathe Cut Seal      |
| 22-022  | Shipping Pad                      |
| 22-204  | Shipping Plate                    |
| 40-040  | Shaft Lock Nut                    |
| 44-081  | Refrigerant Valve Core            |
| 44-119  | Access Port Cap                   |
| HO-106  | Lip Seal Retaining Ring           |
| M20X2.5 | Lip Seal O-Ring                   |
| SH-137  | Pulley Retaining Ring             |
| VHO-106 | Lip Seal Retaining Ring (beveled) |
| VSH-156 | Coil Retaining Ring               |

### Sannden TR70 Compressor

|         |                                   |
|---------|-----------------------------------|
| 013C70  | Discharge Port O-Ring             |
| 015C70  | Suction Port O-Ring               |
| 116C70  | Shaft Seal Seat / Lip Seal O-Ring |
| 243C70  | Rear Housing O-Ring               |
| 902C70  | Oil Plug O-Ring                   |
| 904C70  | Pressure Relief Valve O-Ring      |
| 22-033  | Shipping Pad                      |
| 22-212  | Shipping Plate                    |
| 55-020  | Carbon Seal Assembly              |
| 55-021  | Shaft Seal Seat                   |
| M76X2   | Nose Plate O-Ring (late model)    |
| M80X2   | Nose Plate O-Ring (early model)   |
| M110X2  | Rotor Body O-Ring                 |
| SH-156  | Pulley Retaining Ring             |
| VHO-106 | Lip Seal Retaining Ring           |
| VSH-118 | Pulley Retaining Ring             |

### Sannden TR90 Compressor

|        |                                    |
|--------|------------------------------------|
| 013C70 | Discharge Port O-Ring              |
| 015C70 | Suction Port O-Ring                |
| 116C70 | Shaft Seal O-Ring                  |
| 902C70 | Oil Plug O-Ring                    |
| 904C70 | Pressure Relief Valve O-Ring       |
| 22-033 | Shipping Pad                       |
| 22-212 | Shipping Plate                     |
| 40-040 | Shaft Lock Nut                     |
| 55-020 | Carbon Seal Assembly               |
| 55-021 | Shaft Seal Seat                    |
| HO-90  | Shaft Seal Retaining Ring          |
| M106X2 | Rear Housing O-Ring                |
| M112X2 | Rotor Body O-Ring                  |
| SH-137 | Pulley Retaining Ring (small O.D.) |
| SH-156 | Pulley Retaining Ring (large O.D.) |

### Sannden TR105 Compressor

|        |                                    |
|--------|------------------------------------|
| 115C70 | Discharge Port O-Ring              |
| 117C70 | Suction Port O-Ring                |
| 116C70 | Shaft Seal O-Ring                  |
| 902C70 | Oil Plug O-Ring                    |
| 904C70 | Pressure Relief Valve O-Ring       |
| 22-033 | Shipping Pad                       |
| 22-212 | Shipping Plate                     |
| 40-040 | Shaft Lock Nut                     |
| 55-020 | Carbon Seal Assembly               |
| 55-021 | Shaft Seal Seat                    |
| HO-90  | Shaft Seal Retaining Ring          |
| M124X2 | Front Housing O-Ring               |
| SH-137 | Pulley Retaining Ring (small O.D.) |
| SH-156 | Pulley Retaining Ring (large O.D.) |

### Seiki Seiko SS121 Compressor

|        |                           |
|--------|---------------------------|
| 024C70 | Rear Inner Housing O-Ring |
| 043C70 | Front Housing O-Ring      |



# Mobile Air Conditioning Components

## - PARTS LISTING BY COMPRESSOR MODEL -



### Seiki Seiko SS121 Compressor (cont.)

|             |                                 |
|-------------|---------------------------------|
| 904C70      | Pressure Relief Valve O-Ring    |
| 44-026      | Thru Bolt Gasket                |
| 44-128S     | Clutch Hub Bolt                 |
| 44-128S     | Shipping Plate Bolt             |
| M15X2.5     | Suction & Discharge Port O-Ring |
| M20X2.5     | Lip Seal O-Ring                 |
| HO-90       | Lip Seal Retaining Ring         |
| SH-156      | Pulley Retaining Ring           |
| VSH-196.078 | Coil Retaining Ring             |

### Seiko Seiki SS148 Compressor

|         |                               |
|---------|-------------------------------|
| 013C70  | Discharge Port O-Ring         |
| 015C70  | Suction Port O-Ring           |
| 026C70  | Rear Inner Housing O-Ring     |
| 113C70  | Carbon Seal Head O-Ring       |
| 213C70  | Shaft Seal Seat O-Ring (alt.) |
| 22-033  | Shipping Pad                  |
| 22-212  | Shipping Plate                |
| 44-026  | Thru Bolt Gasket              |
| 44-128S | Shipping Plate Bolt           |
| 55-013  | Shaft Seal Seat               |
| 55-015  | Carbon Seal Assembly          |
| M25X3   | Shaft Seal Seat O-Ring        |
| M106X2  | Rear Housing O-Ring           |
| M108X3  | Front Housing O-Ring          |
| SH-156  | Pulley Retaining Ring         |

### Seiko Seiki SS170 Compressor

|             |                                 |
|-------------|---------------------------------|
| 012C70      | Charging Port O-Ring            |
| 019C70      | Rotor Manifold Plate O-Ring     |
| 211C70      | Suction & Discharge Port O-Ring |
| 22-020      | Shipping Pad                    |
| 22-201      | Shipping Plate                  |
| 44-026      | Thru Bolt Gasket                |
| 44-081      | Refrigerant Valve Core          |
| 44-119      | Access Port Cap                 |
| 55-013      | Shaft Seal Seat                 |
| 55-015      | Carbon Seal Assembly            |
| M25X3       | Shaft Seal Seat O-Ring          |
| SH-156      | Pulley Retaining Ring           |
| VHO-118     | Shaft Seal Retaining Ring       |
| VSH-196.078 | Coil Retaining Ring             |

### Seiko Seiki SS721DLG1 Compressor

|         |                              |
|---------|------------------------------|
| 012C70  | Pressure Relief Valve O-Ring |
| 024C70  | Rear Rotor O-Ring            |
| 042C70  | Front Nose O-Ring            |
| VHO-118 | Clutch Pulley Retaining Ring |

### Seiko Seiki SS811PB5 Compressor

|         |                               |
|---------|-------------------------------|
| 013C70  | Discharge Fitting O-Ring      |
| 026C70  | Rear Rotor O-Ring             |
| 113C70  | Shaft Seal Head O-Ring        |
| M15X2.5 | Suction/Discharge Port O-Ring |
| M25X3   | Shaft Seal Seat O-Ring        |
| M108X3  | Front Nose O-Ring             |
| 44-128S | Shipping Plate Bolt           |
| VSH-196 | Coil Retaining Ring           |

### TAMA TM08HD Compressor

|          |                           |
|----------|---------------------------|
| 013C70   | Discharge Port O-Ring     |
| 015C70   | Suction Port O-Ring       |
| M9.6X1.9 | Oil Plug O-Ring           |
| M20X2.5  | Shaft Seal O-Ring         |
| M110X2   | Case O-Ring               |
| 44-026   | Thru Bolt Washer          |
| 44-123   | Clutch Shim - .015 thick  |
| 44-124   | Clutch Shim - .020 thick  |
| 44-125   | Clutch Shim - .034 thick  |
| 44-126   | Clutch Shim - .050 thick  |
| 44-127   | Clutch Shim - .060 thick  |
| 44-128S  | Clutch Hub Bolt           |
| 44-176   | Suction Plastic Cap       |
| 44-177   | Discharge Plastic Cap     |
| HO-106   | Shaft Seal Retaining Ring |

### TAMA TM15HD Compressor

|          |                                 |
|----------|---------------------------------|
| 012C70   | Pressure Relief Valve O-Ring    |
| 015C70   | Suction Port O-Ring             |
| M9.6X1.9 | Oil Plug O-Ring                 |
| M20X2.5  | Suction & Discharge Port O-Ring |

### TAMA TM15HD Compressor (cont.)

|         |                            |
|---------|----------------------------|
| M20X2.5 | Shaft Seal O-Ring          |
| M113X3  | Center Case O-Ring         |
| 44-026  | Through Bolt gasket        |
| 44-123  | Clutch Shim - .015 thick   |
| 44-124  | Clutch Shim - .020 thick   |
| 44-128S | Clutch Hub Bolt            |
| 44-130  | Plastic Shipping Plug      |
| HO-106  | Shaft Seal Retaining Ring  |
| SH-137  | Clutch Coil Retaining Ring |

### Tecumseh HG500 Mini Compressor

|         |                                     |
|---------|-------------------------------------|
| 015C70  | Tubo Service Valve O-Ring           |
| 11-003  | Teflon Rotolock Gasket              |
| 11-004  | Tubo Lathe Cut Seal                 |
| 11-004B | Tubo Lathe Cut Seal (blue)          |
| 11-007  | Front Plate Lathe Cut Seal          |
| 11-015  | Base Plate Lathe Cut Seal           |
| 11-016  | Rear Plate Lathe Cut Seal           |
| 22-034  | Shipping Pad (flange head)          |
| 22-203  | Shipping Plate (flange head)        |
| 33-001  | Flange Service Valve Gasket         |
| 33-012  | Flange Service Valve Gasket (univ.) |
| 33-025  | Head Gasket                         |
| 33-026  | Valve Plate Gasket                  |
| 33-050  | Front Plate Gasket                  |
| 33-051  | Front Plate Gasket                  |
| 44-135  | Copper Oil Plug Gasket              |
| 55-005  | Carbon Seal Assembly                |
| 55-002  | Front Plate Seal Seat               |
| 55-233  | Shaft Seal Kit                      |

### Tecumseh HG850 / 100 Compressor

|         |                                     |
|---------|-------------------------------------|
| 015C70  | Tubo Service Valve O-Ring           |
| 11-003  | Teflon Rotolock Gasket              |
| 11-004  | Tubo Lathe Cut Seal                 |
| 11-004B | Tubo Lathe Cut Seal (blue)          |
| 11-007  | Front Plate Lathe Cut Seal          |
| 11-015  | Base Plate Lathe Cut Seal           |
| 11-016  | Rear Plate Lathe Cut Seal           |
| 22-034  | Shipping Pad (flange head)          |
| 22-203  | Shipping Plate (flange head)        |
| 33-001  | Flange Service Valve Gasket         |
| 33-012  | Flange Service Valve Gasket (univ.) |
| 33-020  | Head Gasket                         |
| 33-021  | Valve Plate Gasket                  |
| 33-050  | Front Plate Gasket                  |
| 33-051  | Front Plate Gasket                  |
| 44-135  | Copper Oil Plug Gasket              |
| 55-005  | Carbon Seal Assembly                |
| 55-002  | Front Plate Seal Seat               |
| 55-008  | Front Seal Seat (large bearing)     |
| 55-233  | Shaft Seal Kit                      |
| K77-019 | Compressor Rebuild Gasket Kit       |

### York Mini 206 Compressor

|         |                                     |
|---------|-------------------------------------|
| 015C70  | Tubo Service Valve O-Ring           |
| 042C70  | Rear Plate O-Ring                   |
| 11-003  | Teflon Rotolock Gasket              |
| 11-004  | Tubo Lathe Cut Seal                 |
| 11-004B | Tubo Lathe Cut Seal (blue)          |
| 11-007  | Front Plate Lathe Cut Seal          |
| 22-034  | Shipping Pad (flange head)          |
| 22-203  | Shipping Plate (flange head)        |
| 33-001  | Flange Service Valve Gasket         |
| 33-006  | Head Gasket (early model)           |
| 33-008  | Valve Plate Gasket                  |
| 33-009  | Head Gasket ('68 & newer)           |
| 33-012  | Flange Service Valve Gasket (univ.) |
| 33-020  | Head Gasket                         |
| 33-021  | Valve Plate Gasket                  |
| 33-050  | Front Plate Gasket                  |
| 33-051  | Front Plate Gasket                  |
| 44-135  | Copper Oil Plug Gasket              |
| 55-001  | Carbon Seal Assembly                |
| 55-003  | Carbon Seal Assembly (5 bolt)       |
| 55-002  | Front Plate Seal Seat               |
| 55-004  | Front Seal Seat (5 bolt)            |
| 55-006  | Carbon Seal Assembly (wave spring)  |
| 55-007  | Front Plate Seal Seat (CCI)         |
| 55-233  | Shaft Seal Kit                      |

### York 210 Compressor (full size)

|         |                                     |
|---------|-------------------------------------|
| 015C70  | Tubo Service Valve O-Ring           |
| 042C70  | Rear Plate O-Ring                   |
| 11-003  | Teflon Rotolock Gasket              |
| 11-004  | Tubo Lathe Cut Seal                 |
| 11-004B | Tubo Lathe Cut Seal (blue)          |
| 11-007  | Front Plate Lathe Cut Seal          |
| 22-034  | Shipping Pad (flange head)          |
| 22-203  | Shipping Plate (flange head)        |
| 33-001  | Flange Service Valve Gasket         |
| 33-006  | Head Gasket (early model)           |
| 33-008  | Valve Plate Gasket                  |
| 33-009  | Head Gasket ('68 & newer)           |
| 33-012  | Flange Service Valve Gasket (univ.) |
| 33-020  | Head Gasket                         |
| 33-021  | Valve Plate Gasket                  |
| 33-050  | Front Plate Gasket                  |
| 33-051  | Front Plate Gasket                  |
| 44-135  | Copper Oil Plug Gasket              |
| 55-001  | Carbon Seal Assembly                |
| 55-003  | Carbon Seal Assembly (5 bolt)       |
| 55-002  | Front Plate Seal Seat               |
| 55-004  | Front Seal Seat (5 bolt)            |
| 55-006  | Carbon Seal Assembly (wave spring)  |
| 55-007  | Front Plate Seal Seat (CCI)         |
| 55-227  | Shaft Seal Kit (6 bolt)             |
| 55-228  | Shaft Seal Kit (5 bolt)             |
| 55-229  | Shaft Seal Kit (5 bolt w/ shield)   |
| 55-230  | Shaft Seal Kit (Model M)            |
| 55-231  | Shaft Seal Kit (Model M w/ shield)  |
| 55-232  | Shaft Seal Kit (CCI - wave spring)  |
| 55-233  | Shaft Seal Kit (universal)          |
| K77-018 | Compressor Rebuild Gasket Kit       |

### Zexel DCW-17B/17D Compressors

|         |                          |
|---------|--------------------------|
| 011C70  | Oil Plug O-Ring          |
| 019C70  | Valve Plate O-Ring       |
| M20X2.5 | Lip Seal O-Ring          |
| 44-026  | Thru Bolt Gasket         |
| 44-113  | Access port Valve Core   |
| 44-123  | Clutch Shim - .015 thick |
| 44-124  | Clutch Shim - .020 thick |
| 44-125  | Clutch Shim - .034 thick |
| 44-128S | Shipping Plate Bolt      |
| HO-106  | Lip Seal Retaining Ring  |
| HO-137  | Pulley Retaining Ring    |
| SH-175  | Coil Retaining Ring      |

### NOTE TO CUSTOMERS

Please contact Summit for items you need which are not listed on these pages. Summit is adding new items to its listing on a regular basis and is interested in hearing from our customers about their changing requirements.



# Mobile Air Conditioning Components

## - OE PART NUMBERS & CROSSOVERS -

| OE P/N                 | Summit P/N      | Page | OE P/N         | Summit P/N      | Page | OE P/N                | Summit P/N       | Page |
|------------------------|-----------------|------|----------------|-----------------|------|-----------------------|------------------|------|
| <b>ALFAROMEIO</b>      |                 |      | <b>FORD</b>    |                 |      |                       |                  |      |
| 14450683               | M11X2.4GHSN70   | 20   | 390697-S       | 99-001          | 33   | YG-319                | OT-F-G           | 74   |
| 14457180               | 113GHSN70       | 9    | 391302-S100    | 011GHSN70       | 7    | YG-320                | OT-F-BN          | 74   |
| 60813186               | M6.8X2GHSN70    | 20   | 391303-S100    | 013GHSN70       | 7    | YG-321                | OT-F-R           | 74   |
|                        |                 |      | 391304-S100    | 99-007          | 33   | YG-322                | OT-F-B           | 74   |
|                        |                 |      | 391305-S100    | 99-009          | 33   | YG-323                | OT-F-O           | 74   |
| <b>BMW</b>             |                 |      | 391306-S100    | 015GHSN70       | 8    | YG-342                | OT-F-O           | 74   |
| 64-50-1365-078         | 012GHSN70       | 7    | 391307-S100    | 017GHSN70       | 8    | YG-345                | OT-F-B           | 74   |
| 64-50-1468-463         | 011GHSN70       | 7    | 391397-S100    | 99-007          | 33   | YG-346                | OT-F-R           | 74   |
| 64-50-1468-465         | 015GHSN70       | 8    | E0VY-19D990-A  | OT-F-B          | 74   | YG-347                | OT-F-G           | 74   |
| 64-50-1468-466         | 017GHSN70       | 8    | E1AH-19D970-AB | 44-059          | 78   | YG-380                | OT-F-BW          | 74   |
| 64-50-8363-041         | 119GHSN70       | 9    | E1FZ-19D990-A  | OT-F-B          | 74   | N660225-S2            | 44-128           | 62   |
| 64-50-8369-241         | 114GHSN70       | 9    | E1ZZ-19E576-A  | 44-001          | 58   | N801189-S             | 910GHSN70        | 11   |
| 64-50-8374-959         | 110GHSN70       | 9    | E1ZZ-195576-B  | 44-002          | 58   | N805340-S             | 99-002           | 33   |
| 64-50-8375-741         | 111GHSN70       | 9    | E35Y-19E576-A  | 44-003          | 58   | N806959-S             | 99-002           | 33   |
| 64-50-8390-605         | 902GHSN70       | 11   | E69Z-19D990-A  | OT-F-R          | 74   | N807083               | M8X2GHSN70       | 20   |
| 64-52-1466-033         | 44-081          | 55   | E69Z-19D990-B  | OT-F-G          | 74   | W702966               | M11X2.4GHSN70    | 20   |
| 64-53-1466-046         | 44-119          | 67   | E69Z-19E576-A  | 44-004          | 58   | W701460               | M13.1X1.56GHSN70 | 20   |
| 64-53-8375-742         | M14X2.5C70      | 21   | E8TZ-19D990-A  | OT-F-O          | 74   |                       |                  |      |
|                        |                 |      | E8UZ-19D990-A  | OT-F-O          | 74   | <b>GENERAL MOTORS</b> |                  |      |
| <b>CHRYSLER / JEEP</b> |                 |      | E853169S       | M6.8X2GHSN70    | 10   | 10411717              | OT-GM-GW PPOT    | 73   |
| 04720749               | 011GHSN70       | 7    | E9SZ-20884-A   | K77-010         | 49   | 10413367              | OT-GM-BW PPOT    | 73   |
| 04740401               | 99-008          | 33   | F09Z-19D990-A  | OT-F-G          | 74   | 12307177              | 007C70           | 7    |
| 04741652               | 011GHSN70       | 7    | F2DZ-19D990-A  | OT-F-O          | 74   | 15097129              | OT-GM-BLW        | 73   |
| 04746781               | 908C70 & 910C70 | 11   | F3VH-19D970-AD | 44-077          | 79   | 1818941               | 116GHSN70        | 9    |
| 04741705               | 99-007          | 33   | F3XY-19D990-A  | OT-F-B          | 74   | 1843150               | 208GHSN70        | 10   |
| 0507214aa              | 44-075          | 79   | F39Z-19D990-A  | OT-F-BN         | 74   | 1845683               | 99-006           | 33   |
| 056161761AA            | 44-076          | 79   | F42Z-19D990-A  | OT-F-G          | 74   | 1845685               | 015GHSN70        | 8    |
| 36002432               | OT-C-P          | 74   | F4LH-19D970-AA | 44-077          | 79   | 1850702               | 010.5GHSN70      | 7    |
| 3773546                | 44-044          | 78   | F4UZ-19D990-AB | OT-F-R          | 74   | 1850703               | 99-006           | 33   |
| 3846272                | 44-023          | 77   | F5DZ-19D990-AA | OT-F-R          | 74   | 1850707               | 011GHSN70        | 7    |
| 3846567                | 44-045          | 78   | F5DZ-19D990-AB | OT-F-O          | 74   | 1850711               | 207C70           | 10   |
| 3846698                | 44-058          | 78   | F5SZ-19D990-AA | OT-F-B          | 74   | 1850713               | M9X2.5C70        | 20   |
| 3846834                | 44-014          | 77   | F5UZ-19D990-AB | OT-F-R          | 74   | 1850716               | M10X2.5GHSN70    | 20   |
| 3846835                | 44-015          | 77   | F54Z-19D990-AB | OT-F-R          | 74   | 1850723               | 118GHSN70        | 9    |
| 3846836                | 44-019          | 77   | F58Z-19D990-AB | OT-F-B          | 74   | 1850724               | 115GHSN70        | 9    |
| 3847081                | 44-025          | 77   | XC4Z-19D990-AA | OT-F-B          | 74   | 1854800               | 211C70           | 10   |
| 3847083                | 44-016          | 77   | WYF-1475       | 99-001 (red)    | 33   | 1854803               | M9.6X1.9C70      | 20   |
| 3847147                | 44-122          | 61   | YF-1475        | 99-001B (black) | 33   | 1854813               | 012GHSN70        | 7    |
| 3849730                | 44-018          | 77   | YF-1475        | 99-002 (green)  | 33   | 1854905               | 118C70           | 9    |
| 4462930                | 44-083          | 59   | YF-1593        | 99-003 (black)  | 33   | 25671803              | OT-GM-YW         | 73   |
| 4638189                | 44-042          | 78   | YF-1593        | 99-003B (blue)  | 33   | 2725475               | K77-024A         | 51   |
| 4677045                | 44-043          | 78   | YF-1752        | 99-009          | 33   | 2724576               | K77-025B         | 51   |
| 4720747                | 44-080          | 79   | YF-1753        | 011GHSN70       | 7    | 2724577               | K77-026C         | 51   |
| 5210223                | 44-024          | 77   | YF-1754        | 013GHSN70       | 7    | 2724578               | K77-027D         | 51   |
| 52460714               | 44-005          | 77   | YF-1755        | 99-007          | 33   | 2724887               | K77-027E         | 51   |
| 52460715               | 44-006          | 77   | YF-1756        | 015GHSN70       | 8    | 2724891               | 44-087           | 59   |
| 52460716               | 44-007          | 77   | YF-1757        | 017GHSN70       | 8    | 2724996               | 44-152           | 71   |
| 5264373                | 44-017          | 77   | YF-1788        | 99-008          | 33   | 3041827               | 44-081           | 59   |
| 55036182               | OT-C-P          | 74   |                |                 |      |                       |                  |      |

# Mobile Air Conditioning Components

- OE PART NUMBERS & CROSSOVERS -



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|-------------------------------|----------------|------|-------------------------------|---------------|------|-------------------------------|------------------|------|
| <b>GENERAL MOTORS (cont.)</b> |                |      | <b>GENERAL MOTORS (cont.)</b> |               |      | <b>GENERAL MOTORS (cont.)</b> |                  |      |
| 3091160                       | 208GHSN70      | 10   | 6557411                       | 44-084        | 59   | 15-3319                       | 44-120           | 67   |
| 3033879                       | OT-GM-W        | 73   | 6557626                       | 44-062        | 78   | 15-3320                       | 44-119           | 67   |
| 3033919                       | OT-GM-W        | 73   | 6557911                       | 44-132        | 65   | 15-3321                       | 44-081           | 59   |
| 3093111                       | 108C70         | 9    | 6557973                       | 44-130        | 65   | 15-3491                       | 112C70           | 9    |
| 3093112                       | 110C70         | 9    | 6557996                       | 44-155        | 57   | 15-3592                       | 011C70           | 7    |
| 3093411                       | 113C70         | 9    | 6558587                       | 99-003        | 33   | 15-3610                       | 108C70           | 9    |
| 3093499                       | 904C70         | 11   | 6559160                       | 44-070        | 78   | 15-3611                       | 110C70           | 9    |
| 3093509                       | 011GHSN70      | 7    | 6559386                       | 44-072        | 78   | 15-3612                       | 113C70           | 9    |
| 3094213                       | 008GHSN70      | 7    | 6559420                       | 44-133        | 65   | 15-3614                       | 013C70           | 7    |
| 3094214                       | 013GHSN70      | 7    | 6559422                       | 44-134        | 65   | 15-3615                       | 017C70           | 8    |
| 3094215                       | 015GHSN70      | 8    | 6559423                       | 44-013        | 71   | 15-3957                       | 111C70           | 9    |
| 3094216                       | 017GHSN70      | 8    | 6561742                       | 44-065        | 78   | 15-3978                       | M9.6X1.9C70      | 20   |
| 3094219                       | 012GHSN70      | 7    | 6845671                       | 99-006        | 33   | 15-3982                       | M11.9X1.9C70     | 20   |
| 3094221                       | 014GHSN70      | 8    | 6845673                       | M9X2.5C70     | 20   | 15-3983                       | M14.7X1.9C70     | 21   |
| 3096068                       | OT-GM-BW       | 73   | 6845674                       | 016GHSN70     | 8    | 15-3984                       | M10X2.5C70       | 20   |
| 3096248                       | M9.6X1.9C70    | 20   | 90381758                      | M9X2.5C70     | 20   | 15-3985                       | 113C70           | 9    |
| 3096249                       | M11.9X1.9C70   | 20   | 90381761                      | 011GHSN70     | 7    | 15-4262                       | 44-084           | 59   |
| 3096250                       | M14.7X1.9C70   | 21   | 90508322                      | 119GHSN70     | 9    | 15-5151                       | OT-GM-W          | 73   |
| 52450547                      | 010.5C70       | 7    | 9117115                       | 015GHSN70     | 8    | 15-5375                       | 44-082           | 59   |
| 52450548                      | 904C70         | 11   | 9288674                       | 99-006        | 33   | 15-5378                       | OT-GM-BW         | 73   |
| 52451133                      | 115C70         | 9    | 9288675                       | 013GHSN70     | 7    | 15-5612                       | OT-GM-YW T-TOP   | 73   |
| 52451134                      | 111C70         | 9    | 15-237                        | K77-001       | 49   | 15-5653                       | OT-GM-YW         | 73   |
| 52454645                      | M9X2.5         | 10   | 15-287                        | 55-207        | 97   | <b>HONDA/ACURA</b>            |                  |      |
| 52454646                      | 113C70         | 9    | 15-293                        | 55-229        | 97   | 80871-ST7-000                 | M13X2.5C70       | 20   |
| 52455752                      | 44-011         | 71   | 15-298                        | 55-231        | 97   | 80872-SLO-900                 | 013C70           | 7    |
| 52455755                      | 44-131         | 65   | 15-1119                       | 44-114        | 61   | 80872-ST7-000                 | 111C70           | 9    |
| 52455756                      | 44-012         | 71   | 15-2268                       | 55-236        | 97   | 80873-SLO-900                 | M7X1.5C70        | 20   |
| 52455830                      | M12X2.5C70     | 20   | 15-2273                       | 55-204        | 97   | 80873-ST7-000                 | 010.5C70         | 7    |
| 52455831                      | M14X2.5C70     | 20   | 15-2274                       | 55-201        | 97   | <b>INTERNATIONAL TRUCK</b>    |                  |      |
| 52456067                      | M9.6X1.9C70    | 20   | 15-2275                       | 55-209        | 97   | 854804401                     | OT-C-P           | 74   |
| 52456068                      | M11.9X1.9C70   | 20   | 15-2277                       | 55-212        | 97   | <b>JAGUAR</b>                 |                  |      |
| 52456069                      | M14.7X1.9C70   | 21   | 15-2292                       | 55-213        | 97   | CAC89682                      | 903GHSN70        | 11   |
| 52457910                      | 44-010         | 71   | 15-2720                       | K77-024A      | 51   | CBC4967                       | 016GHSN70        | 8    |
| 52458183                      | 012C70         | 7    | 15-2721                       | K77-025B      | 51   | KRC1154                       | 011GHSN70        | 7    |
| 52458698                      | M12.3X2.4C70   | 20   | 15-2722                       | K77-026C      | 51   | KRC1156                       | 013GHSN70        | 7    |
| 52460742                      | 017C70         | 8    | 15-2723                       | K77-027D      | 51   | KRC1158                       | 015GHSN70        | 8    |
| 52466777                      | 011GHSN70      | 7    | 15-20058                      | K77-028E      | 51   | KRS604001                     | M6.75X1.78GHSN70 | 20   |
| 52466779                      | 013GHSN70      | 7    | 15-30169                      | 99-003        | 33   | KSG110001                     | M14X1.5GHSN70    | 20   |
| 52476901                      | OT-GM-OW       | 73   | 15-30170                      | M12.3X2.4C70  | 20   | KSG110002                     | M12.3X2.4GHSN70  | 20   |
| 52477004                      | OT-GM-YW T-TOP | 73   | 15-30247                      | 017C70        | 8    | KSG110624                     | M10.8X2GHSN70    | 20   |
| 52486385                      | OT-GM-OW       | 73   | 15-30487                      | 015C70        | 8    | KSG111116                     | M14X1.5GHSN70    | 20   |
| 5887997                       | 211C70         | 10   | 15-30570                      | 904C70        | 11   | KSG113624                     | M13.6X2.5GHSN70  | 20   |
| 5910609                       | 44-082         | 59   | 15-30572                      | 012C70        | 7    | KSG114116                     | M14X1.5GHSN70    | 20   |
| 6555320                       | 44-091         | 60   | 15-31053                      | OT-GM-GW PPOT | 73   | KSG114001                     | M14X1.5GHSN70    | 20   |
| 6555384                       | 44-156         | 63   | 15-31134                      | OT-GM-OW      | 73   | KSR115001                     | 114GHSN70        | 9    |
| 6556407                       | 118GHSN70      | 9    | 15-3153                       | 007C70        | 7    |                               |                  |      |
| 6556621                       | 211C70         | 10   | 15-31101                      | 44-152        | 71   |                               |                  |      |
| 6557398                       | 44-060         | 78   | 15-3317                       | 44-115        | 61   |                               |                  |      |



# Mobile Air Conditioning Components

## - OE PART NUMBERS & CROSSOVERS -

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|---------------|------------|------|-----------------------------|---------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MERCEDES BENZ |            |      | SAAB (cont.)                |               |       | Due to vehicle model year changes, individual items may have multiple OE part numbers. We have endeavored to include a cross-sectional representation of OE crossovers. We have excluded certain OE part numbers about which there were questions regarding accuracy. We invite customers to submit requests for pricing based on OE part numbers not listed on the previous pages. |
| 000-230-00-56 | 99-028     | 33   | JUU100150                   | M9.3X2C70     | 20    |                                                                                                                                                                                                                                                                                                                                                                                     |
| 000-997-81-49 | 99-013     | 33   |                             |               |       |                                                                                                                                                                                                                                                                                                                                                                                     |
| 016-997-94-48 | 99-012     | 33   | TOYOTA                      |               |       |                                                                                                                                                                                                                                                                                                                                                                                     |
| 115-832-00-85 | 44-081     | 59   | 90099-14044                 | M7X1.5C70     | 20    |                                                                                                                                                                                                                                                                                                                                                                                     |
| 123-997-03-40 | 013GHSN70  | 7    | 90099-14045                 | 907C70        | 11    |                                                                                                                                                                                                                                                                                                                                                                                     |
| 140-997-06-45 | M7.6X2C70  | 20   | 90099-14119                 | 010.5C70      | 7     |                                                                                                                                                                                                                                                                                                                                                                                     |
| 140-997-07-45 | M10.8X2C70 | 20   | 90099-14120                 | M11X2.5C70    | 20    |                                                                                                                                                                                                                                                                                                                                                                                     |
| 140-997-08-45 | M14.2X2C70 | 21   | 90099-14121                 | M14X2.5C70    | 20    |                                                                                                                                                                                                                                                                                                                                                                                     |
| 140-997-09-45 | M17X2C70   | 21   |                             |               |       |                                                                                                                                                                                                                                                                                                                                                                                     |
| 140-997-11-45 | 904C70     | 11   | VOLKSWAGEN / AUDI / PORSCHE |               |       |                                                                                                                                                                                                                                                                                                                                                                                     |
| 201-988-06-35 | 44-119     | 67   | IHO-820749H                 | M16X2GHSN70   | 21    |                                                                                                                                                                                                                                                                                                                                                                                     |
|               |            |      | 1JO-820749                  | M14.3X2.5     | 21    |                                                                                                                                                                                                                                                                                                                                                                                     |
| MAZDA         |            |      | 1JO-820749A                 | M16.5X2.43C70 | 21    |                                                                                                                                                                                                                                                                                                                                                                                     |
| LB5161JIX     | 010.5C70   | 7    | 1JO-820749G                 | M17X2GHSN70   | 21    |                                                                                                                                                                                                                                                                                                                                                                                     |
| LB5261JIX     | M7X1.5C70  | 20   | 7MO-820749B                 | M8X2GHSN70    | 20    |                                                                                                                                                                                                                                                                                                                                                                                     |
| LB5361JIX     | 903C70     | 11   | 8AO-260749AG                | M16.5X2.43C70 | 21    |                                                                                                                                                                                                                                                                                                                                                                                     |
| LB5461JIX     | 013C70     | 7    | 302-272-679                 | OT-GM-W       | 73    |                                                                                                                                                                                                                                                                                                                                                                                     |
| LB5561JIX     | M10X2.5C70 | 20   | 443-271-191A                | OT-A-GW       | 73    |                                                                                                                                                                                                                                                                                                                                                                                     |
| LB5661JIX     | 015C70     | 8    | 928-573-909-02              | 44-081/44-119 | 69/70 |                                                                                                                                                                                                                                                                                                                                                                                     |
| LB5761JIX     | M13X2.5C70 | 20   | 999-126-935-01              | M20X2.4C70    | 21    |                                                                                                                                                                                                                                                                                                                                                                                     |
|               |            |      | 999-707-247-40              | M7.6X2C70     | 20    |                                                                                                                                                                                                                                                                                                                                                                                     |
| MITSUBISHI    |            |      | 999-707-250-40              | M10.8X2C70    | 20    |                                                                                                                                                                                                                                                                                                                                                                                     |
| 946604        | M7X1.5C70  | 20   | 999-707-251-40              | M14.2X2C70    | 21    |                                                                                                                                                                                                                                                                                                                                                                                     |
| MB946604      | M7X1.5C70  | 20   | 999-707-252-40              | M17X2C70      | 21    |                                                                                                                                                                                                                                                                                                                                                                                     |
| MB946605      | 013C70     | 7    | 999-707-261-40              | M8.9X2C70     | 20    |                                                                                                                                                                                                                                                                                                                                                                                     |
| MB646606      | 015C70     | 8    | 999-707-284-40              | 010GHSN70     | 7     |                                                                                                                                                                                                                                                                                                                                                                                     |
| MB946605      | 013C70     | 7    |                             |               |       |                                                                                                                                                                                                                                                                                                                                                                                     |
| MR146634      | 015C70     | 8    | VOLVO                       |               |       |                                                                                                                                                                                                                                                                                                                                                                                     |
|               |            |      | 1323387-9                   | M7X1.5C70     | 20    |                                                                                                                                                                                                                                                                                                                                                                                     |
| NISSAN        |            |      | 1324829-9                   | OT-GM-Y       | 73    |                                                                                                                                                                                                                                                                                                                                                                                     |
| 27739-B8065   | 016C70     | 8    | 3522588-7                   | 011C70B       | 7     |                                                                                                                                                                                                                                                                                                                                                                                     |
| 3522588-7     | 011C70     | 7    | 3522589-5                   | 013C70B       | 7     |                                                                                                                                                                                                                                                                                                                                                                                     |
| 3537499-0     | 011C70     | 7    | 3522590-3                   | 015C70B       | 8     |                                                                                                                                                                                                                                                                                                                                                                                     |
| 92470-N8200   | 010C70     | 7    | 3522598-6                   | 012YHSN70     | 7     |                                                                                                                                                                                                                                                                                                                                                                                     |
| 92471-N8200   | 013C70     | 7    | 3522598-6                   | 012C70B       | 7     |                                                                                                                                                                                                                                                                                                                                                                                     |
| 92472-N8200   | 901C70     | 11   | 3537499-0                   | 011YHSN70     | 7     |                                                                                                                                                                                                                                                                                                                                                                                     |
| 92473-N8200   | 015C70     | 8    | 3537503-9                   | 013YHSN70     | 7     |                                                                                                                                                                                                                                                                                                                                                                                     |
| 92474-N8200   | 011C70     | 7    | 3537507-0                   | 015YHSN70     | 8     |                                                                                                                                                                                                                                                                                                                                                                                     |
| 92475-W1000   | 111C70     | 9    | 3537521-1                   | 017YHSN70     | 8     |                                                                                                                                                                                                                                                                                                                                                                                     |
| 92475-W2100   | M14.3X2.5  | 21   | 3545441-2                   | M20X2.5C70B   | 21    |                                                                                                                                                                                                                                                                                                                                                                                     |
| 92477-N8200   | 017C70     | 8    | 35522587                    | 008C70B       | 7     |                                                                                                                                                                                                                                                                                                                                                                                     |
|               |            |      | 35522592                    | 207C70B       | 10    |                                                                                                                                                                                                                                                                                                                                                                                     |
| SAAB          |            |      | 3737501-3                   | 012YHSN70     | 7     |                                                                                                                                                                                                                                                                                                                                                                                     |
| 6847526       | M17X2.5C70 | 21   |                             |               |       |                                                                                                                                                                                                                                                                                                                                                                                     |
| JUU10001      | M6.8X2C70  | 20   |                             |               |       |                                                                                                                                                                                                                                                                                                                                                                                     |
| JUU10002      | M11X2.4C70 | 20   |                             |               |       |                                                                                                                                                                                                                                                                                                                                                                                     |
| JUU10003      | M13.6X2C70 | 20   |                             |               |       |                                                                                                                                                                                                                                                                                                                                                                                     |
| JUU100120     | M14X2.5C70 | 20   |                             |               |       |                                                                                                                                                                                                                                                                                                                                                                                     |

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There is a dark red vertical margin strip on the left side. The paper appears to be from a notebook or a standard ruled sheet of paper.