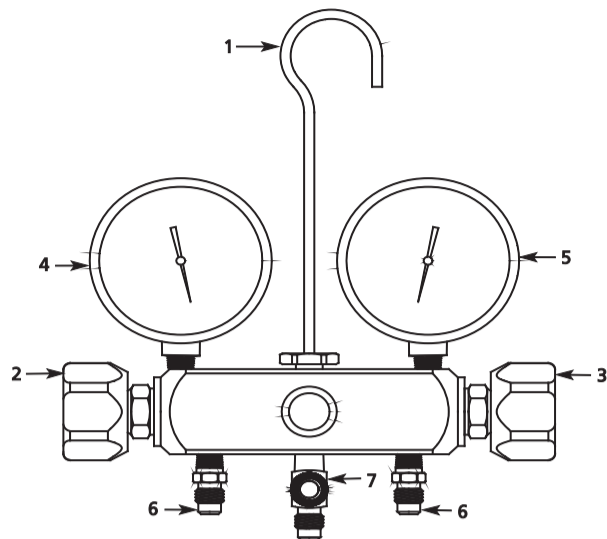


For Repair Parts, call 1-800-323-0620

24 hours a day - 365 days a year

Please provide following information:

- Model number
- Serial number (if any)
- Part description and number as shown in parts list



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Figure 3 - Repair Parts Illustration for Manifold Gauge Sets

Repair Parts List for Manifold Gauge Sets

| Ref. No. | Description | Ref. No. | Qty. | Ref. No. | Description | Ref. No. | Qty. |
|----------|----------------------|------------|------|----------|----------------------------|------------|------|
| 1 | Hanging Hook | HV521801G | 1 | 7 | Tee Port w/Core Valve, Cap | HV521805EG | 1 |
| 2 | Low Side Valve Knob | HV521807G | 1 | △ | 16 mm Blind Port | HV521808AG | 1 |
| 3 | High Side Valve Knob | HV521806G | 1 | △ | 1/2" ACME Blind Port | HV521808BG | 1 |
| 4 | Low Side Gauge | 4PDK4 | 1 | △ | 13 mm Blind Port | HV521808CG | 1 |
| 5 | High Side Gauge | 4PDK3 | 1 | △ | O-Ring Service Kit | HV521810CG | 1 |
| 6 | Port w/o Core Valve | HV521805DG | 2 | | | | |

(△) Not Shown.

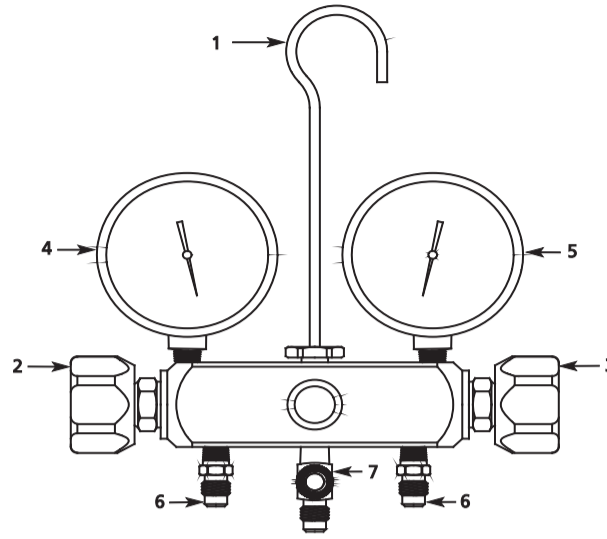


For Repair Parts, call 1-800-323-0620

24 hours a day - 365 days a year

Please provide following information:

- Model number
- Serial number (if any)
- Part description and number as shown in parts list



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Figure 4 - Repair Parts Illustration for Manifold Gauge Sets

Repair Parts List for Manifold Gauge Sets

| Reference Number | Description | Part Number for Models: | | Quantity |
|------------------|--|-------------------------|------------|----------|
| | | 4PDF8 | 4PDF9 | |
| 1 | Hanging Hook | HV521801G | HV521801G | 1 |
| 2 | Low Side Valve Knob | HV521807G | HV521807G | 1 |
| 3 | High Side Valve Knob | HV521806G | HV521806G | 1 |
| 4 | Low Side Gauge | 4PDK9 | 4PDK2 | 1 |
| 5 | High Side Gauge | 4PDK8 | 4PDK1 | 1 |
| 6 | Tee Port w/o Core Valve w/Blind Ports | HV521805FG | HV521805FG | 2 |
| 7 | Tee Port w/Core Valve, Cap and Blind Ports | HV521805GG | HV521805GG | 1 |
| △ | O-Ring Service Kit | HV521810CG | HV521810CG | 1 |

(△) Not Shown.

Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.

Dayton® Manifold Gauge Sets

Description

Dayton Manifold Gauge Sets are used to charge and evacuate air conditioning systems. They include 3 high pressure, color coded 72" hoses and have either 2 or 4 valves. The gauges are easy to read flutter resistant dry or oil filled. The 4PDF7 is for automotive use.

Unpacking

Handle with care. Inspect for shipping damage. If found, file a claim with the carrier.

GAUGE CALIBRATION

This gauge has been calibrated at the factory, however, due to handling and shipping it may be slightly out of adjustment. To adjust (Dry Gauges Only) do the following:

1. Remove lens cover.
2. Turn adjustment screw slightly counterclockwise until pointer reads zero.
3. Do not overturn, calibration will be permanently destroyed.
4. Replace lens cover.

General Safety Information

CAUTION Wear goggles and gloves when working with refrigerants. Contact with refrigerants may cause injury.

WARNING Incorrect use or connections may cause leaks or explosions. Read and follow the instructions carefully and take precautions to avoid leaks or explosions. Confirm that all associated devices are grounded correctly before use.

WARNING Do not exceed 80% of claimed range when using manifold.

WARNING This manifold gauge set is designed for use by technically trained refrigeration and air conditioning service technicians. Due to the unusually HIGH PRESSURE AND HAZARDOUS GASES IN ALL SYSTEMS, misapplication could result in injury or death. Dayton Mfg warns against the sale to, or use of this product by any other than professionally trained personnel.

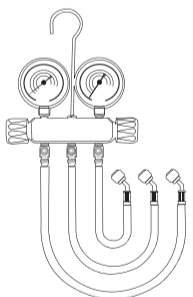


Figure 1

IMPORTANT: Please read the operating instructions before putting new equipment into operation. The compound rubber forms a seal around the valve stem. Tighten the valve nut a 1/4 to 1/2 turn to take up the set before starting operation and re-tighten as necessary to keep the seal tight.

NOTE: Check equipment manufacturer's catalog or instruction sheet for specific recommendations on refrigerant charge, oil change and service procedures for any particular piece of equipment.

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Specifications

| Model | Type | Gauge | No. of Valve | Refrigerants |
|-------|------------|-------|--------------|--------------------------|
| 4PDF7 | Automotive | Dry | 2 | R-134a |
| 4PDF8 | Aluminum | Dry | 2 | R502/R12/R22 |
| 4PDF9 | Aluminum | Oil | 2 | R502/R12/R22 |
| 4PDG1 | Brass | Dry | 2 | R-410a/R-404a/R22/R-407c |
| 4PDG2 | Aluminum | Oil | 4 | R-502/R12/R22 |



Dayton® Manifold Gauge Sets

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Assembly

(See Figure 2)

1. Lines from the manifold are attached to the D (SSV) and should be left loose, one to two turns, while the line to the C (DSV) should be tightened.
2. Open both of the manifold valves A and B a 1/4 to 1/2 turn and cap the middle opening E.
3. Turn C (DSV) stem in 1/8 to 1/4 turn to crack the valve for a moment. This will purge the refrigerant through the connection at D(SSV), Tighten D (SSV).

NOTE: Purging is necessary to remove air and moisture from the manifold and lines, however, it must be held to a minimum to avoid damage to the atmosphere.

4. Carefully test for leaks while the manifold and lines are under high pressure. Correct any leak immediately.

Operation

The schematic (see Figure 2) shows the gauge and manifold installation on an external drive compressor with service valves.

- A - Manifold Suction Valve
- B - Manifold Discharge Valve
- C - Compressor Discharge Service Valve (DSV)
- D - Compressor Suction Service Valve (SSV)
- E - Service Opening

- 1 - System Pressure Reading
- 2 - Purging
- 3 - Charging or Adding Oil
- 4 - Bypassing
- 5 - Gauge Reading

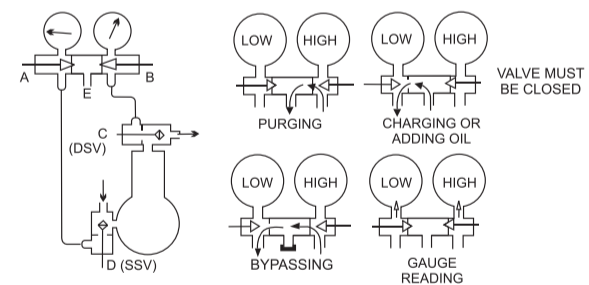


Figure 2

VARIOUS SERVICE AND TESTING OPERATIONS

1. Observe Operating Pressures:
 - a. Close valve A (turn all the way in)
 - b. Close valve B (turn all the way in)
 - c. Crack open back seat of valve C
 - d. Crack open back seat of valve D
2. Charge Refrigerant in System:
 - a. Connect refrigerant cylinder to E (vapor only)
 - b. Open valve A
 - c. Close valve B
 - d. Close front seat of valve D (slowly)
3. Purge Condenser:
 - a. Close valve A
 - b. Open valve B
 - c. Crack open valve C
4. Charge Liquid Refrigerant into High Side:
 - a. Connect refrigerant drum to E
 - b. Close valve A
 - c. Open valve B
 - d. Mid-position valve C
 - e. Mid-position valve D
5. Build Pressure in Low Side for Control Setting or Leak Testing:
 - a. Seal E with seal cap
 - b. Open valve A
 - c. Open valve B
 - d. Back seat then crack open valve C
 - e. Mid-position valve D

