4PDF7A

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

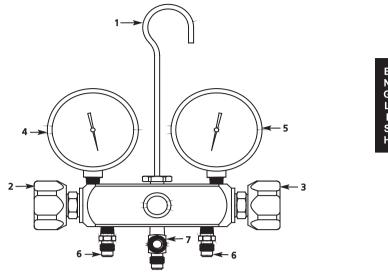


Figure 3 - Repair Parts Illustration for Manifold Gauge Sets

Repair Parts List for Manifold Gauge Sets

Nopuli 1 are Electron manifest eady of the									
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	\triangle	16 mm Blind Port	HV521808AG	1		
3	High Side Valve Knob	HV521806G	1	\triangle	1/2" ACME Blind Port	HV521808BG	1		
4	Low Side Gauge	4PDK4	1	\triangle	13 mm Blind Port	HV521808CG	1		
5	High Side Gauge	4PDK3	1	\triangle	O-Ring Service Kit	HV521810CG	1		
6	Port w/o Core Valve	HV521805DG	2						

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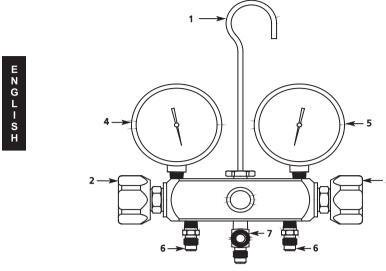


Figure 4 - Repair Parts Illustration for Manifold Gauge Sets

Repair Parts List for Manifold Gauge Sets

Reference Number	Description	Part Number for Models: 4PDF8	4PDF9	Quantity
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	4PDJ9	4PDK2	1
5	High Side Gauge	4PDJ8	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
\triangle	O-Ring Service Kit	HV521810CG	HV521810CG	1

(△) Not Shown.

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4PDF7A, 4PDF8A, 4PDF9A, 4PDG1A and 4PDG2A

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

Dayton[®] Manifold **Gauge Sets**

Description

(△) Not Shown.

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

Gauge No. of Valve Refrigerants

R-134a

R502/R12/R22

R502/R12/R22 R-410a/R-404a/R22/R-407c

R-502/R12/R22

Unpacking

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

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.
- counterclockwise until pointer reads
- 3. Do not overturn, calibration will be permanently destroyed.
- 4. Replace lens cover.

Specifications

4PDF7 Automotive

4PDG2 Aluminum

Aluminum

Brass

Dry

Model Type

4PDF8

4PDG1

General Safety Information

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

AWARNING 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

A WARNING Do not exceed to of claimed range When using manifold

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 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 operatequipment 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.

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

NOTE: Check equipment manufac-

4PDF7A, 4PDF8A, 4PDF9A, 4PDG1A and 4PDG2A

Dayton® Manifold Gauge Sets

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)

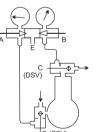
NOTE: Purging is necessary to remove air and moisture from the manifold and lines, however, it must be held to a minimum to avoid damage to the 4. Carefully test for leaks while the

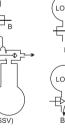
manifold and lines are under high pressure. Correct any leak

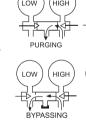
Operation

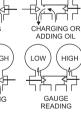
The schematic (see Figure 2) shows the gauge and manifold installation on an external drive compressor with service valves.

- A Manifold Suction Valve
- B Manifold Discharge Valve
- C Compressor Discharge Service Valve 3, Purge Condenser: (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









LOW

HIGH

VARIOUS SERVICE AND TESTING **OPERATIONS**

- . 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)
- a. Close valve A
- 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

Form 5S6434

Version 1

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-Serial number (if any)

Notes

-Part description and number as shown in parts list

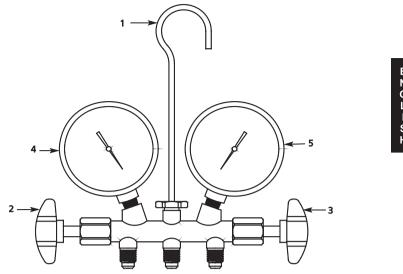


Figure 5 - Repair Parts Illustration for Manifold Gauge Sets

Repair Parts List for Manifold Gauge Sets

Ref. No.	Description	Ref. No.	Qty.	Ref. No.	Description	Ref. No.	Qty.
1	Hanging Hook	HV521801G	1	4	Low Side Gauge	4PDK6	1
2	Low Side Valve Knob	HV521807AG	1	5	High Side Gauge	4PDK5	1
3	High Side Valve Knob	HV521806AG	1	\triangle	Q-Ring Service Kit	HV521810AG	1
(\triangle) Not Shown.							

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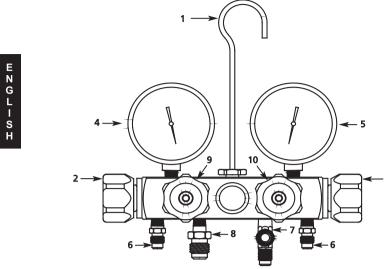


Figure 6 - Repair Parts Illustration for Manifold Gauge Sets

Repair Parts List for Manifold Gauge Sets

Repair Parts List for Manifold Gauge Sets								
lef. lo.	Description	Ref. No.	Qty.	Ref. No.	Description	Ref. No.	Qty.	
1	Hanging Hook	HV521801G	1	8	Port w/o Core Valve 3/8 SAE	HV521805BG	1	
2	Low Side Valve Knob	HV521807G	1	9	VAC Knob	HV521807BG	1	
3	High Side Valve Knob	HV521806G	1	10	REF Knob	HV521806BG	1	
4	Low Side Gauge	4PDK2	1	Δ	1/4 SAE Blind Port	HV521808DG	3	
5	High Side Gauge	4PDK1	1	\triangle	3/8 SAE Blind Port	HV521808EG	1	
6	Port w/o Core Valve	HV521805AG	2	\triangle	O-Ring Service Kit	HV521810BG	1	
7	Tport w/Core Valve & Cap	HV521805CG	1					

(△) Not Shown

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Dayton Operating Instructions and Parts Manual 4PDF7A, 4PDF8A, 4PDF9A, 4PDG1A and 4PDG2A

4PDF7A, 4PDF8A, 4PDF9A, 4PDG1A and 4PDG2A

Dayton® Manifold Gauge Sets

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Manufactured for Dayton Electric Mfg. Co., 100 Grainger Parkway, Lake Forest, Illinois, 60045 U.S.A

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