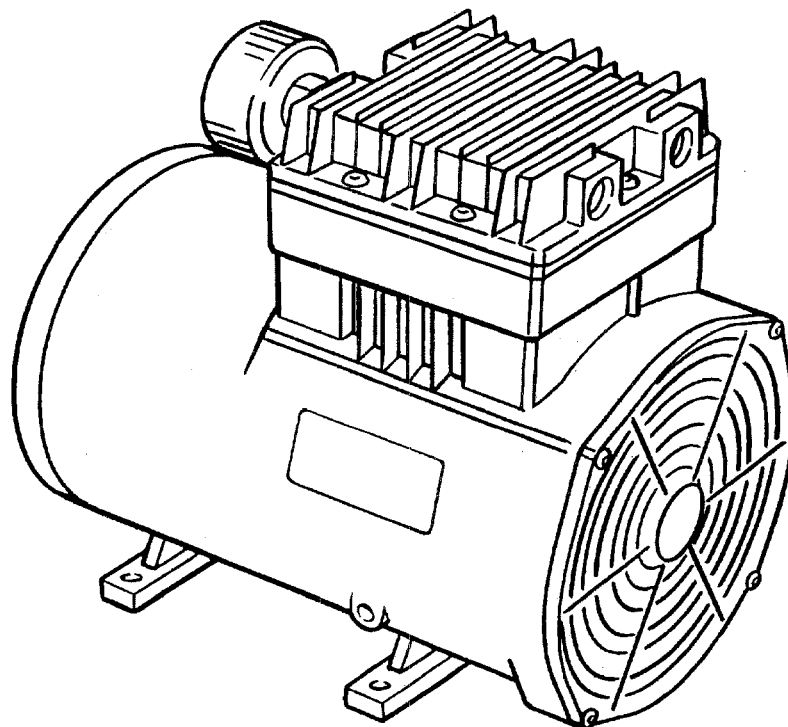


**807CK Series
1007CK Series
1107CK Series
Compressor
Field Service Manual**





Thomas 807CK Series 1007CK Series 1107CK Series Compressor Field Service Manual

A Field Service Manual
Prepared by



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Introduction

This Field Service Manual is intended for use ONLY by properly trained and experience repair personnel employed by an authorized service center. THIS SERVICE MANUAL SHOULD NOT BE USED BY OR DISTRIBUTED TO THE PUBLIC. THE INSTRUCTIONS AND WARNINGS HEREIN PRESUME EXISTING FAMILIARITY WITH THE DESIGN AND FUNCTION OF THESE AND SIMILAR PRODUCTS, AND THEIR COMPONENTS.

Please Note: The model(s) represented in this manual may have additions and/or modifications made at any time. Pictures represent a standard unit series and an actual unit may vary slightly. This manual is based on the latest technical information available at the time of creation or last revision. It is believed to be generally accurate and reliable. Consult the factory if additional detailed information is desired, or whenever there is a question about a given unit's configuration or performance specifications.

Safety First

It is recommended that you thoroughly read and understand this manual before you attempt to service the Thomas series of compressors to which this applies. PLEASE NOTE THE FOLLOWING CAUTIONS AND WARNINGS FOR YOUR OWN SAFETY.

⚠ Caution

To avoid personal injury and/or property damage, only authorized service personnel should service this unit.

⚠ Warning

To avoid the risk of electrical shock, personal injury, or death, disconnect power before servicing this unit.

⚠ Caution

To avoid personal injury, keep your fingers away from the fan while the unit is operating.

⚠ Caution

To avoid personal injury, especially to eyes and face, use eye and face protection when servicing this unit.

⚠ Caution

To avoid personal injury, especially to eyes and face, never point the exhaust air flow at yourself or other people in the area.

⚠ Caution

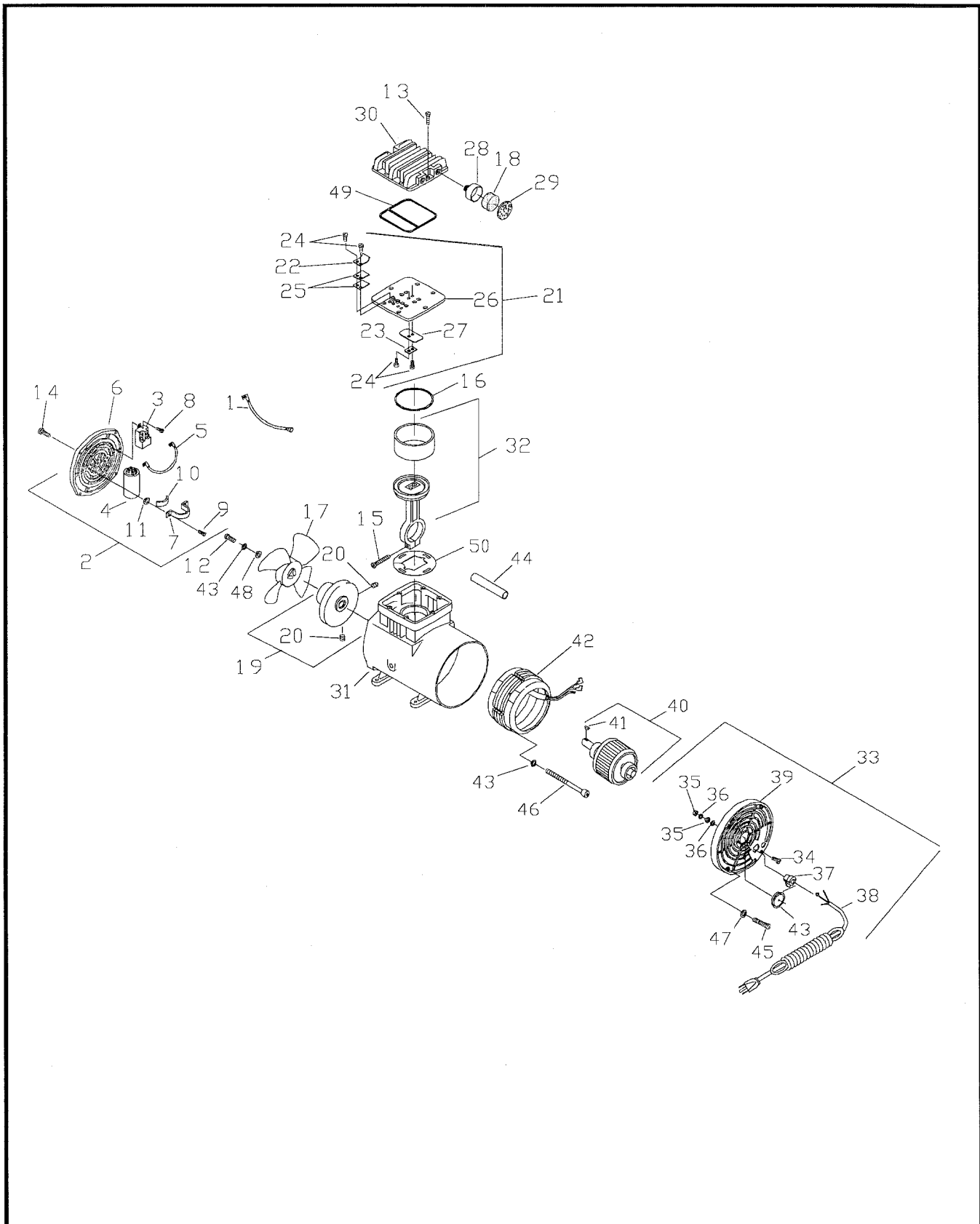
To avoid compressor damage, never lubricate any component in your compressor. All moving parts are permanently lubricated.

⚠ Caution

To avoid property damage or personal injury, always try rotating the fan by **HAND**, prior to connecting the unit to the power source. Check for suction at the air inlet port by placing your finger over the port as you turn the fan. You should feel a slight suction with each rotation of the fan. If you don't feel suction, or if you feel or hear a thump as you turn the fan, **DO NOT CONNECT THE UNIT TO A POWER SOURCE**; review the assembly procedure for possible error.

Exploded View and Parts List

Exploded View of the Thomas 807CK,1007CK, 1107CK Compressor



Field Service Parts List for Thomas 1007CK72 Series Compressor

1007CK72 SERIES				
Item No.	Part No.	Component Part	Description	Qty
1	604128		Lead Wire (Brown)	1
2	614770		Front Cover Assembly	1
3		602215	Relay - 115V 60Hz	1
4		603021	Capacitor	1
5		604286	Lead Wire Assembly (Blue)	1
6		614509	Front Cover	1
7		617136	Capacitor Bracket	1
8		625245	Screw - Relay	2
9		625434	Screw - Capacitor Bracket	2
10		604127	Foam Strip	1
11		626563	Washer	2
12	625354		Screw - Fan	1
13	625646		Screw - Head	6
14	625448		Screw - Front Cover	4
15	625114		Screw - Connecting Rod	1
16	623638		O-Ring - Valve Plate	1
17	633718		Fan	1
18	641010		Filter	1
19	667174		Eccentric & Bearing Assembly	1
20		625008	Set Screw	1
21	656283-504		Valve Plate Assembly - Gray	1
22		617124	Valve Flapper Restraint	2
23		617135	Valve Keeper Strip	1
24		625446	Screw - Valve Flappers	6
25		656708	Valve Flapper	4

1007CK72 SERIES				
Item No.	Part No.	Component Part	Description	Qty
26		662139-504	Valve Plate	1
27		656887	Valve Flapper	1
28	660776		Filter Body	1
29	660803		Filter Body Cap	1
30	661218-504		Head - Gray	1
31	661430-504		Housing - Gray	1
32	666888		Connecting Rod Assembly	1
*33	614596-504		Motor End Cap Ass'y - Gray	1
34		605018	Screw - Ground	1
35		626328	Nut - Ground	2
36		626329	Washer - Ground	2
37		638020	Strain - Relief	1
38		638128	Cord	1
39		662022-504	Motor End Cap	1
*40	667205		Shaft, Rotor & Bearing Ass'y	1
41		626618	Woodruff Key	1
*42	608668		Stator - 115V, 60Hz	1
43	626509		Lockwasher - Fan & Stator	5
*44	615600		Tubing - Stator Leads	1
*45	625251		Screw - Motor End Cap	4
*46	625357		Screw - Stator	4
*47	626014		Washer - Motor End Cap	4
48	626563		Washer - Fan	1
49	638359		O-Ring - Head	1
50	638415		Dust Shield	1

* Indicates parts or assemblies that are serviceable only at authorized Thomas service centers.

Field Service Parts List for Thomas 807CK60 Series Compressor

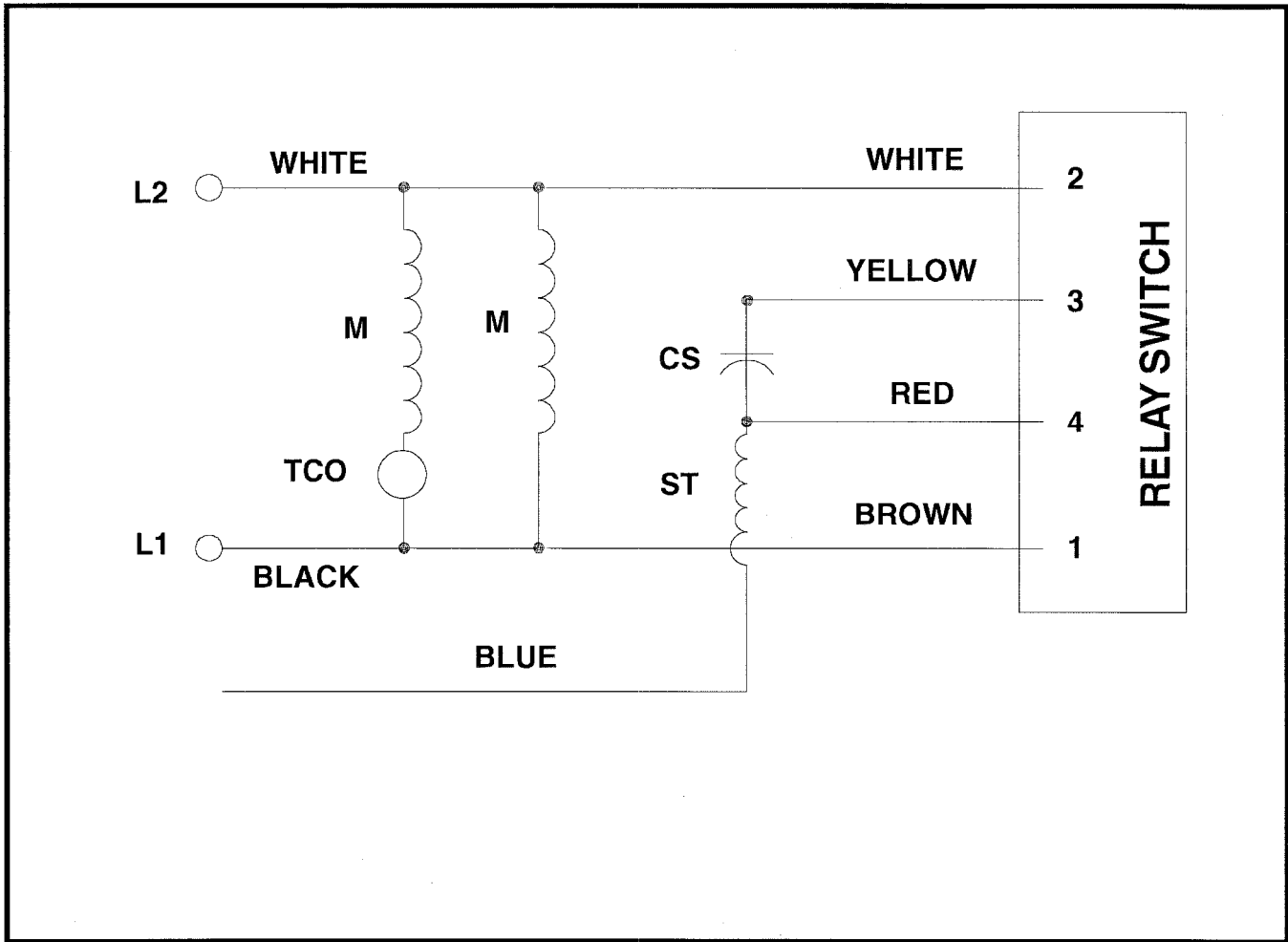
Item	Add Part	Description	Qty	Delete Part
19	667177	Eccentric & Bearing Assembly	1	667174
32	666890	Connecting Rod Assembly	1	666888

Field Service Parts List for Thomas 1107CK75 Series Compressor

Item	Add Part	Description	Qty	Delete Part
19	667176	Eccentric & Bearing Assembly	1	667174
32	666889	Connecting Rod Assembly	1	666888

Wiring Diagram

Use this wiring diagram to connect your compressor to the power source.



Troubleshooting Guide

If you are having a problem with your compressor, use this handy table to help locate the cause(s):

Connecting Rod Breaks Often	Problem				Loud Unit	Possible Cause	Corrective Action
	Low Flow	Low Pressure	Unit Will Not Start	Motor Overheats			
				x		High voltage at compressor	Reduce voltage to 115 VAC ± 10%
	x	x	x	x		Low voltage at compressor	Increase voltage to 115 VAC ± 10%
	x	x			x	Damaged valves	Replace flapper valves
	x	x			x	Debris in valves	Remove debris and check for valve damage
	x	x			x	Damaged gaskets	Replace gaskets
	x	x			x	Worn Cup	Replace connecting rod assembly
	x	x			x	Damaged O-ring groove in head	Replace head
	x	x			x	Loose head screws	Tighten head screws
				x		Broken fan	Replace fan
			x	x	x	Bent motor shaft	Replace entire unit
			x	x		Damaged relay	Replace relay
	x					Loose fittings	Tighten fittings
	x			x		Insufficient ventilation in enclosure	Increase air circulation to enclosure
			x		x	Worn bearings	Replace eccentric and bearing assembly
	x	x				Leak at fittings	Tighten fittings
					x	Loose rod clamping screw	Apply Loctite® 242 and retighten
x ¹			x	x		Rod clamping screw too tight	Remove screw, clean off old Loctite and reseal
x ²						Eccentric out of alignment, bearing nib on eccentric bent, or setscrews loose	Check alignment and reseal or replace eccentric

¹Rods breaking in bore area

²Rods breaking at thick section of rod

Required Tools and Materials

To disassemble and reassemble your compressor, you need the following tools and materials:

- Torque wrench that has an inch-pound scale (for head screws, setscrews, flapper valve screw, and pipe plugs).
- Torx® T-25 drive for torque wrench (for head screws).
- Torx® T-20 drive for torque wrench (for front cover screws).
- 5/32" Allen wrench attachment for torque wrench (for eccentric and rod clamping screws).
- Flat blade screwdriver attachment for torque wrench (for flapper valve screw).
- Phillips head screwdriver attachment for torque wrench (for fan screw).
- Loctite® 680 (Hernon® 846), or equivalent (for connecting rod bearing bore).
- Loctite® 242 (Hernon® 423), or equivalent (for connecting rod clamping screw).

Component Repair

Servicing the Valve Assembly

Refer to the Troubleshooting Guide in this manual to determine whether the valve assembly needs to be serviced.

Component Parts Required

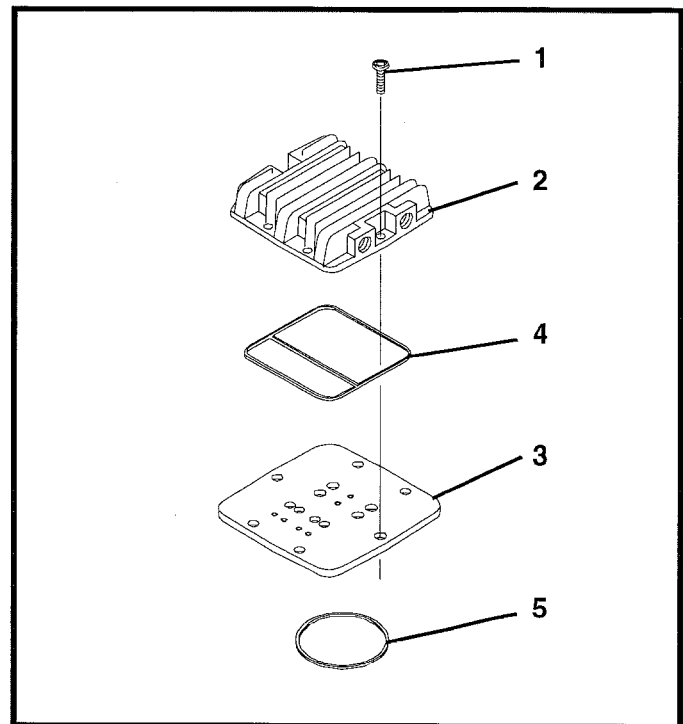
You will need:

- Flapper valve(s).
- Head gasket O-ring (if defective)
- Valve gasket O-ring (if defective)

Removing the Valve Assembly

To remove the valve assembly:

1. Disconnect the power.
2. Disconnect all air lines and remove compressor from the enclosure.
3. Remove the six screws (1) that fasten the head (2) to the compressor housing.
4. Carefully separate the head from the compressor body.
5. Carefully separate the valve plate (3) from the head.
6. Remove the head gasket O-ring (4) and inspect it for cuts, signs of becoming brittle, and broken pieces. If the gasket is in good condition, set it aside for reassembly.
7. Turn the valve plate over and inspect the valve plate O-ring (5) for cuts, signs of becoming brittle, and broken pieces. If the O-ring is in good condition, set it aside for reassembly.

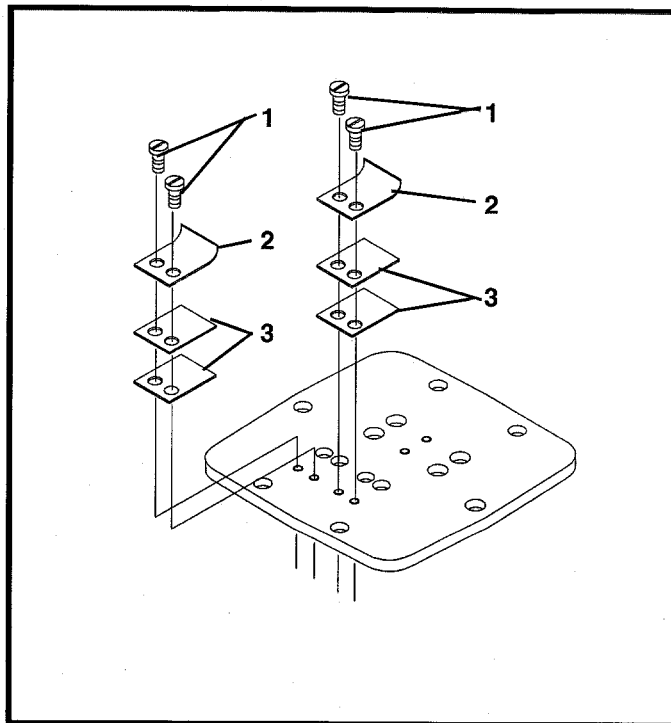


Removing the Flapper Valves

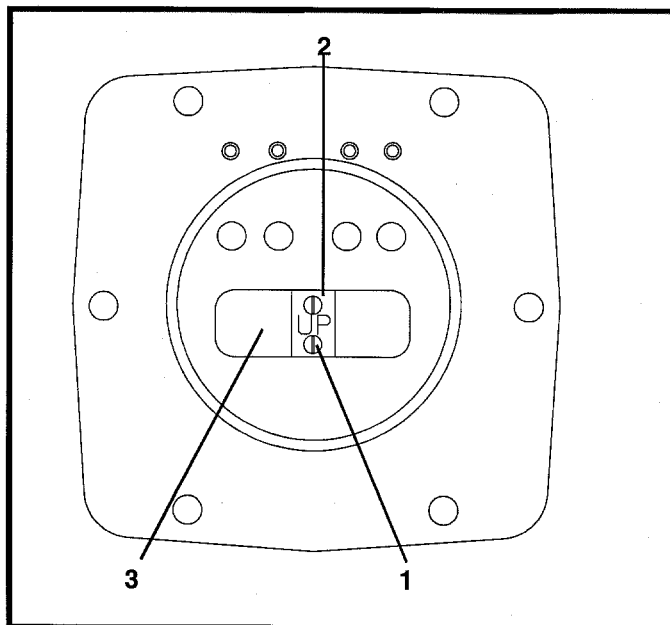
Note: To help orient the flapper valve correctly on the valve plate, only remove one set of flapper valves at a time. As soon as you remove the valve, replace it with a new one.

To remove the flapper valves:

1. If you are replacing a flapper valve on the top side of the valve plate (side facing the head), remove the flapper valve screws (1), lift off the valve restraints (2), and lift off the flapper valves (3).



2. If you are replacing a flapper valve on the bottom side of the valve plate (side facing the compressor housing), remove the flapper valve screws (1), lift off the valve keeper strip (2), and lift off the flapper valve (3).



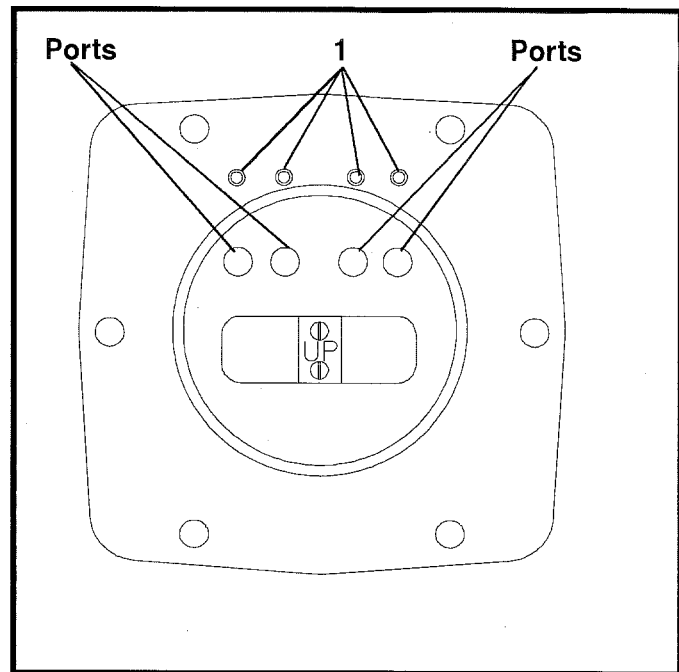
Replacing Flapper Valve on the Top of the Valve Plate

To replace a valve on the top side of the valve assembly:

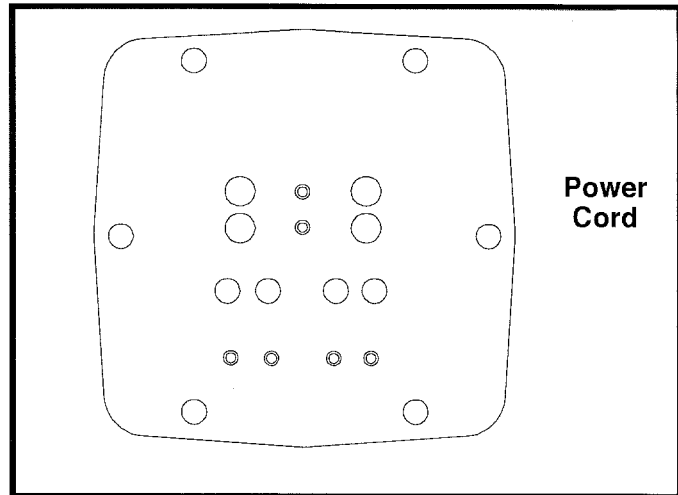
⚠ Caution

Make sure you wipe off all excess HERNON® 423. Both sides of valve plate must be free of sealant.

1. Place the valve plate on a flat surface as shown noting the location of the ports.
2. Place ONE drop of Loctite® 242, or equivalent, in the threaded holes (1) as shown.
3. Wipe off excess Loctite® 242.

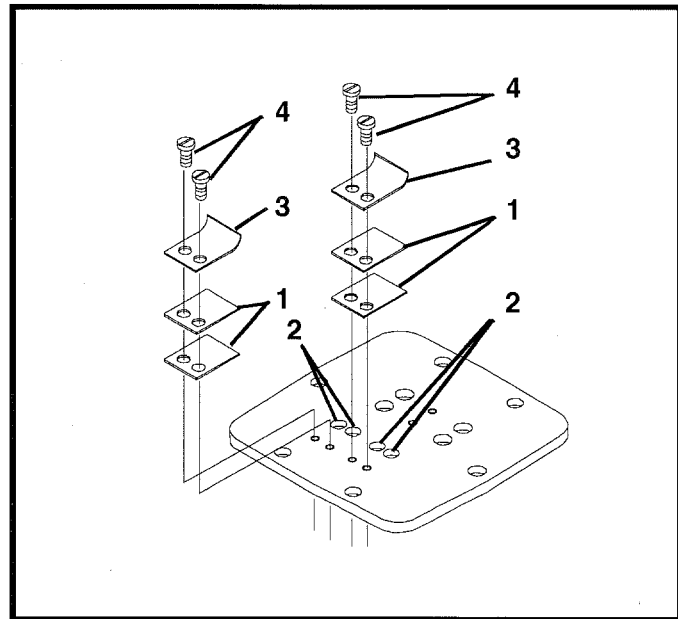


4. Turn valve plate over.
5. Wipe off excess Loctite® 242.
6. Place the valve plate on the compressor housing and orient it as illustrated. Note the orientation of the valve ports and the location of the power cord on the compressor housing.

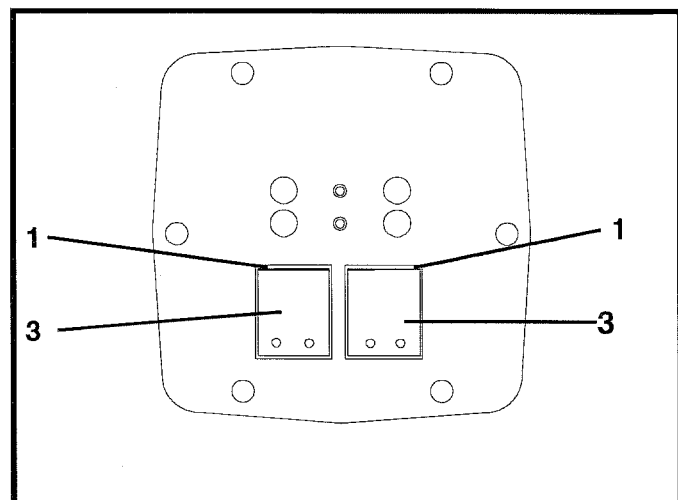


Note: There are two sets of valves on the top side of the valve plate. Each valve set consists of two flapper valves that cover two valve ports.

7. Orient a flapper valve set (1) over a pair of valve ports (2).



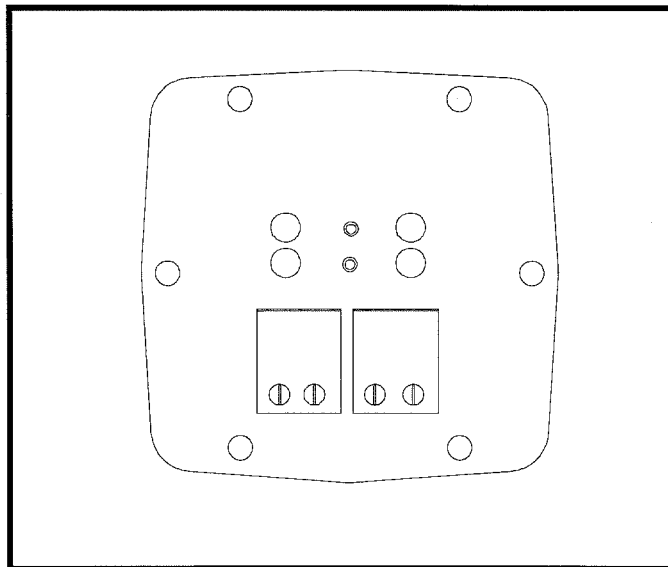
8. Place a valve restraint (3) over the flapper valve set.
9. Line up the screw holes in all of the valve components and insert flapper valve screws (4) into the valve plate.
10. Make sure the flapper valve is centered over the ports and that the valve restraint is square with the valve plate.



⚠ Caution

Do not overtighten the flapper valve screws or they will snap off in the valve assembly.

11. Tighten the flapper valve screws to 12 inch-pounds, using a torque wrench with a flat screwdriver blade.



Replacing Flapper Valve on the Bottom of the Valve Plate

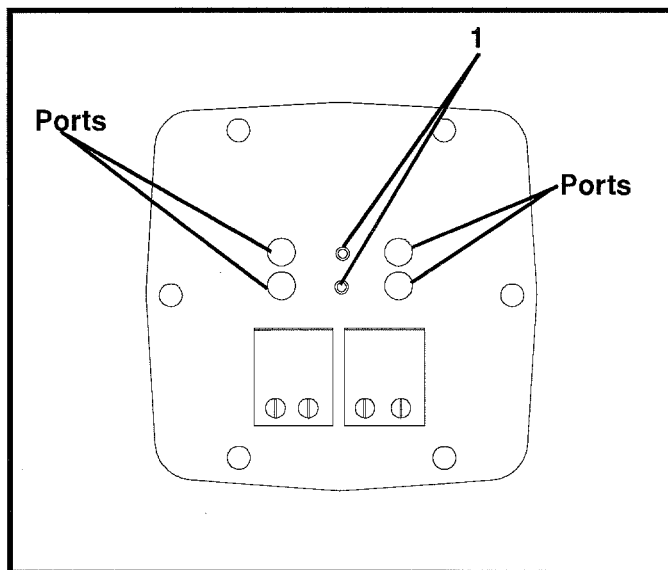
To replace a valve on the bottom side of the valve assembly:

1. Remove the flapper valve components on the bottom of the valve plate per the instructions in “removing the Flapper Valve” section.

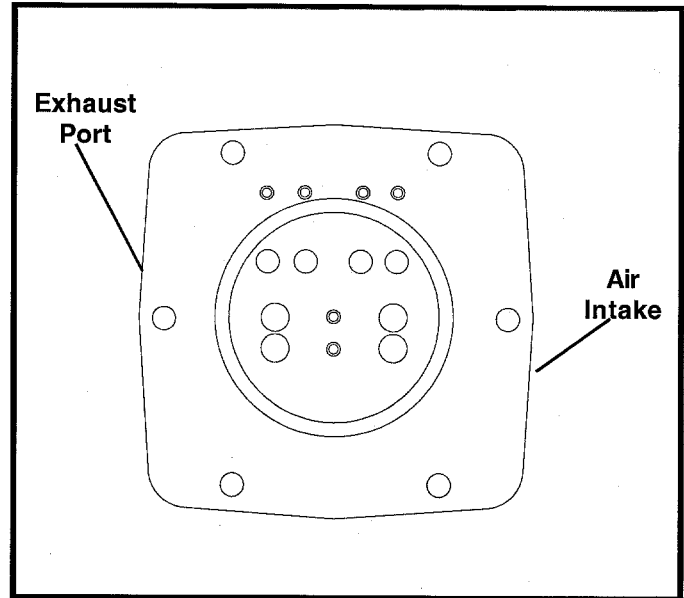
⚠ Caution

Make sure you wipe off all excess Loctite® 242. Both sides of valve plate must be free of sealant.

2. Place the valve plate on a flat surface as shown noting the location of the threaded holes (1) and ports.
3. Place ONE drop of Loctite® 242, or equivalent, in the threaded holes (1).
4. Wipe off excess Loctite® 242.

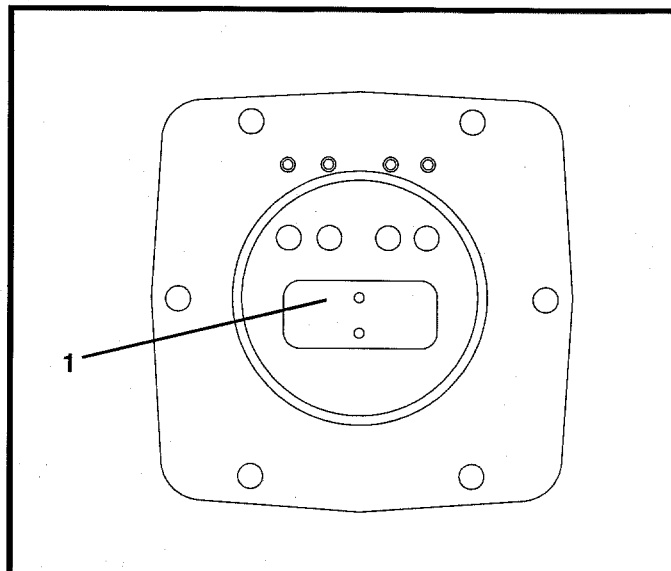


5. Turn valve plate over.
6. Wipe off excess Loctite® 242.
7. Turn the compressor head upside down and place the valve plate on the compressor head and orient it as illustrated. Note the orientation of the threaded holes and the location of the air intake and exhaust ports.



Note: The flapper valve on bottom side of the valve plate covers four valve ports.

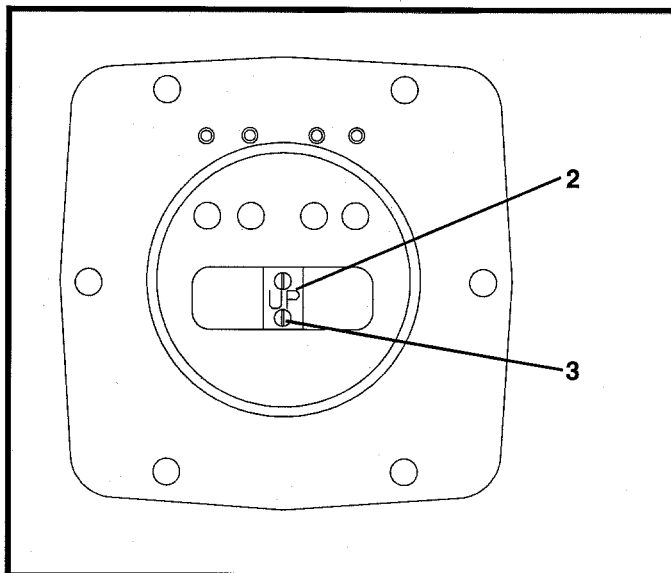
8. Orient a flapper valve (1) over the valve ports.



9. Place a valve keeper strip (2) over the valve, observing that the word "UP" is facing you.

10. Line up the screw holes in all of the valve components and insert flapper valve screws (3) into the valve plate.

11. Make sure the flapper valve is centered over the ports and that the valve keeper strip lines up with the flapper valve.



⚠ Caution

Do not overtighten the flapper valve screws or they will snap off in the valve assembly.

12. Tighten the flapper valve screws to 12 inch-pounds using a torque wrench with a flat screwdriver blade.

Reassembling the Compressor

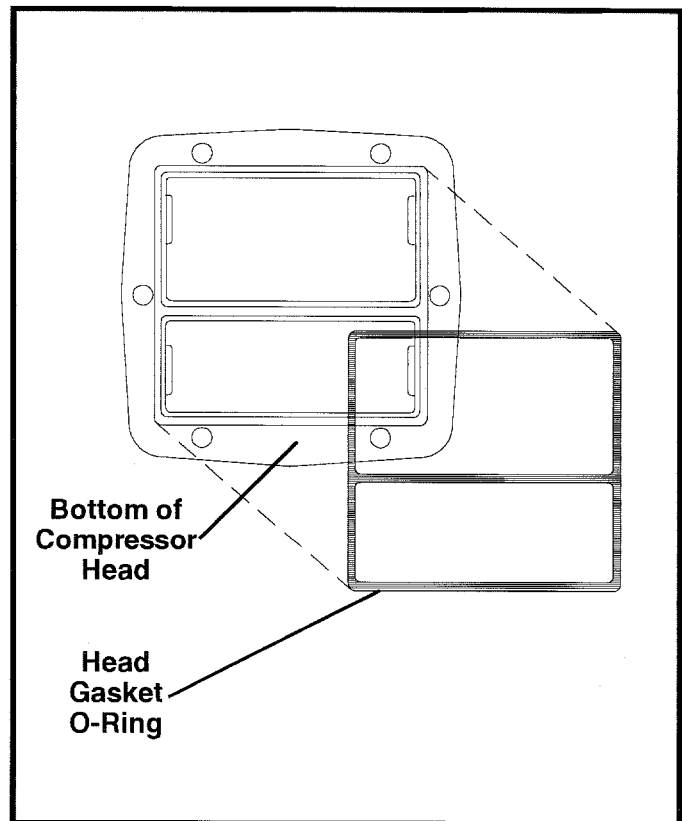
Once the valve is fully assembled, you can reassemble the compressor.

⚠ Caution

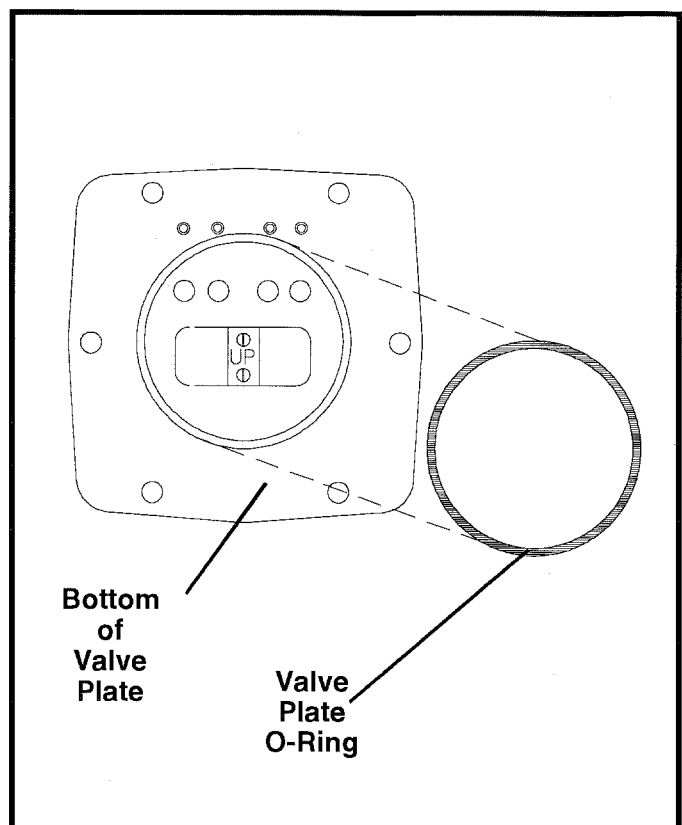
To prevent damage to the compressor, never apply any sealant or lubrication to the O-Rings.

Note: Some models use a rectangular O-ring gasket on the compression side of the head only.

1. Insert the head gasket O-Ring into the groove located on the bottom of the head.



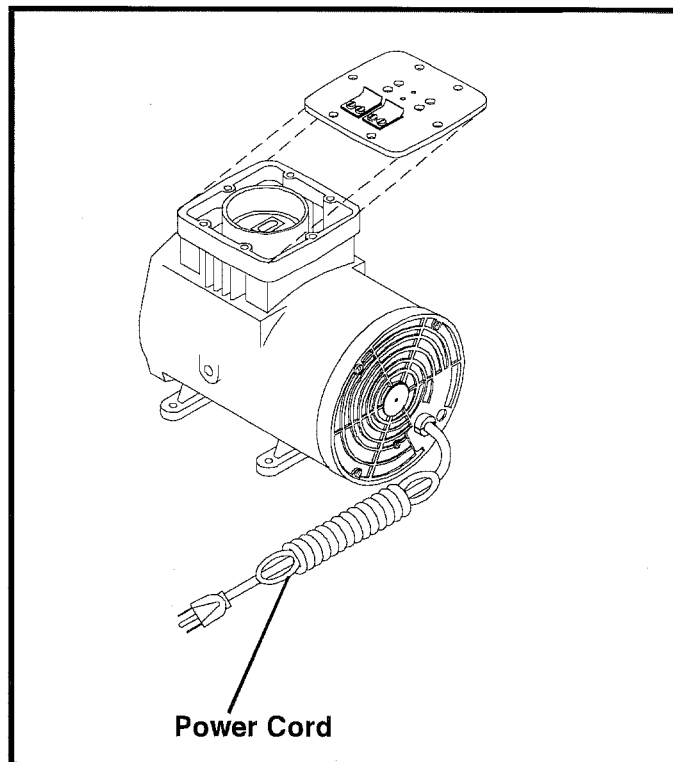
2. Insert the valve plate O-Ring into the groove located on the bottom of the valve plate.



3. Position the compressor housing as shown in the illustration. Notice the orientation of the power cord and recess in the connecting rod.

Note: Make sure that the connecting rod sleeve is seated against the compressor housing.

4. Observe the orientation of the valve plate assembly in the illustration and place it on the compressor housing.



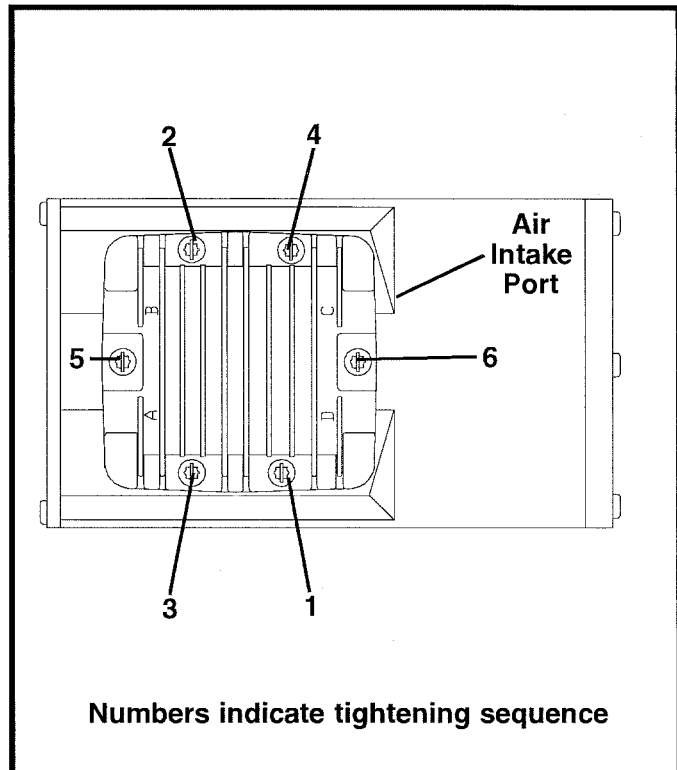
5. Place the head assembly on the valve plate assemblies, observing the position of the air intake port.

Note: Make sure the gasket O-Rings are not pinched.

6. Insert the head screws and tighten each screw until it is snug in the sequence shown. Do not completely tighten the screws yet.
7. Using a torque wrench with the Torx® T-25 drive, tighten each head screw to 20 inch-pounds, in the sequence shown.
8. Remove air intake filter assembly from air intake port. (To check suction.)

⚠ Caution

To avoid property damage or personal injury, always try rotating the fan by **HAND**, prior to connecting the unit to the power source. Check for suction at the air inlet port by placing your finger over the port as you turn the fan. You should feel a slight suction with each rotation of the fan. If you don't feel suction, or if you feel or hear a thump as you turn the fan, **DO NOT CONNECT THE UNIT TO A POWER SOURCE**; review the assembly procedure for possible error.



9. Install air intake filter assembly. Hand tighten - DO NOT OVERTIGHTEN.
10. Use a soap solution or leak detector to check all connections for air leaks.

Servicing the Connecting Rod Assembly and Eccentric Assembly

Refer to the Troubleshooting Guide in this manual to determine whether a connecting rod assembly or an eccentric needs to be serviced. The connecting rod must be removed before you replace the eccentric assembly.

⚠ Caution

Check eccentric alignment before you replace the connecting rod. Any wobble during rotation of the eccentric will cause premature connecting rod failure or breakage.

Component Parts Required

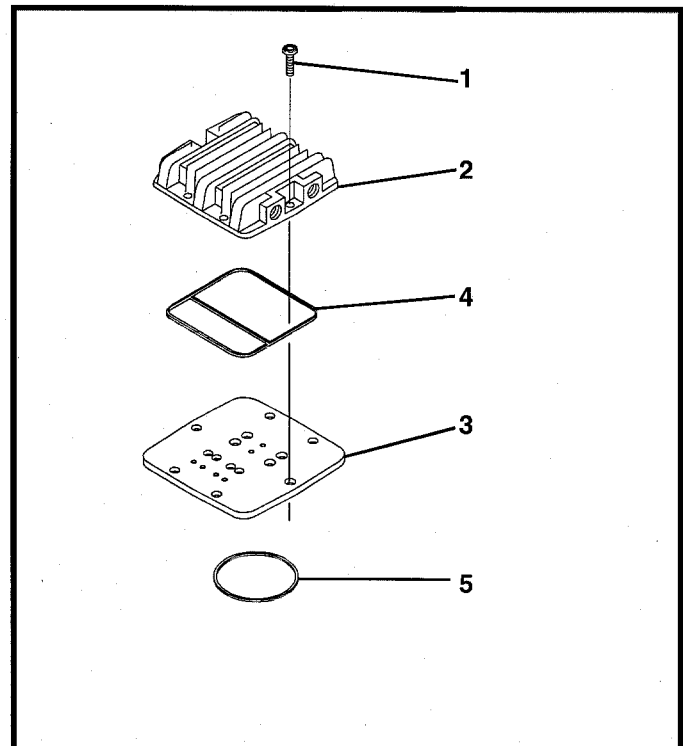
You will need:

- Connecting rod assembly and/or eccentric assembly
- Rod clamping screw
- Valve plate O-Ring
- Head gasket O-Ring (if defective)
- Emery paper 400 - 500 grit

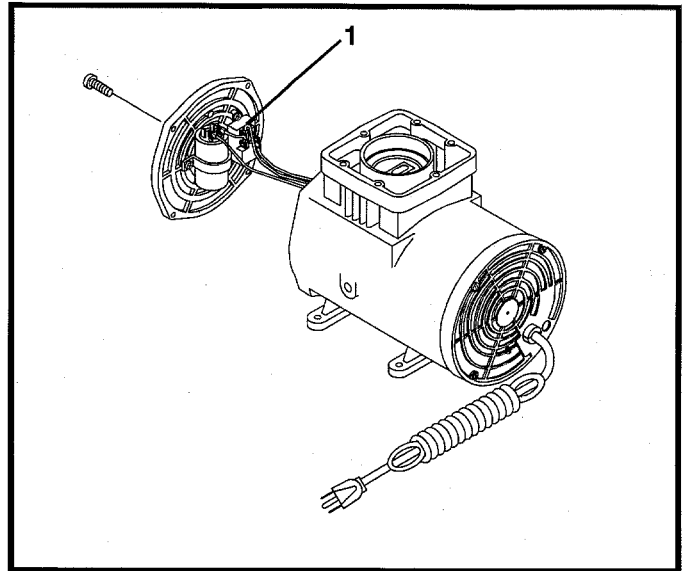
Removing the Connecting Rod Assembly

To remove the connecting rod assembly:

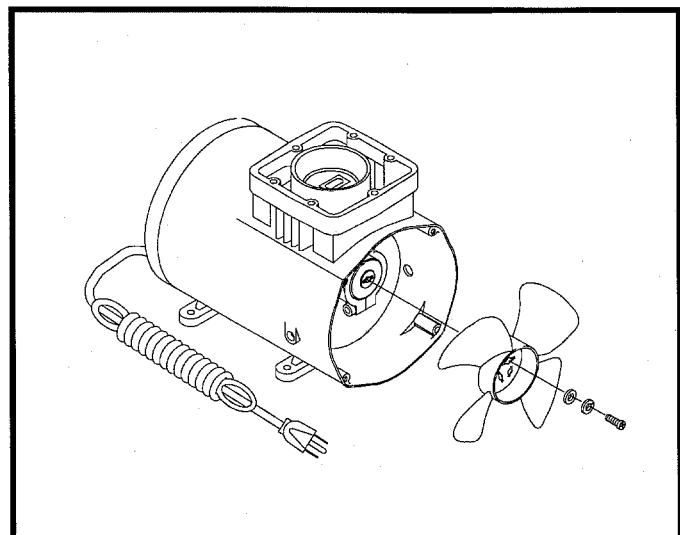
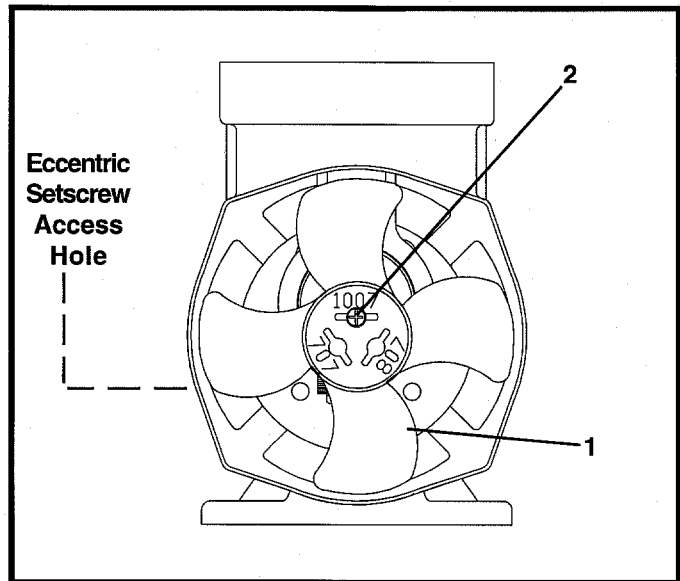
1. Disconnect all air lines and remove compressor from the enclosure.
2. Remove the six screws (1) that fasten the head (2) to the compressor housing.
3. Carefully separate the head from the compressor body.
4. Carefully separate the valve plate (3) from the head and set it aside for later assembly.
5. Remove the head gasket O-Ring (4) and inspect it for cuts, signs of becoming brittle, and broken pieces. If the gasket is in good condition, set it aside for reassembly.
6. Remove and discard the valve plate O-Ring (5).



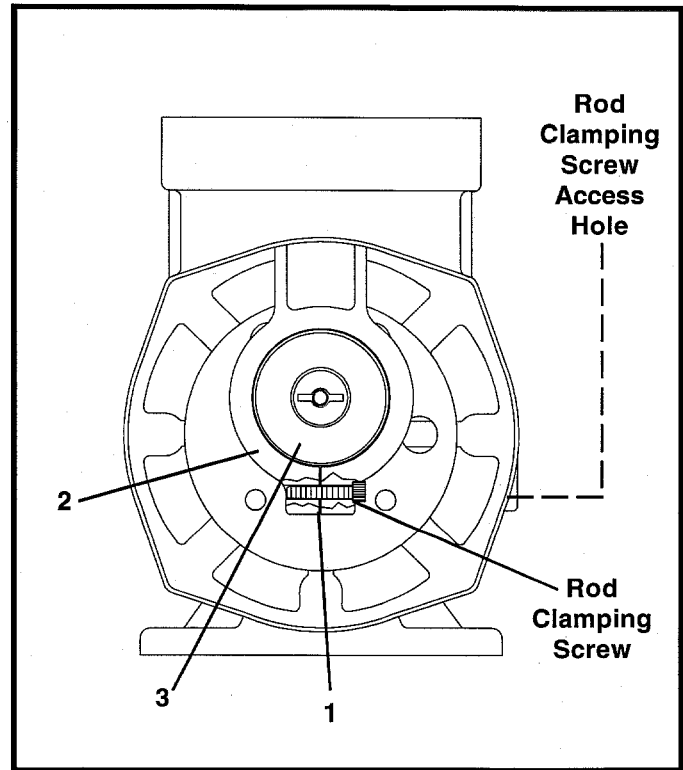
7. Remove four Torx® T-20 screws that hold on the front cover and remove cover.
8. Disconnect three wires from the motor relay (1) located on the front cover, and the two wires located on the capacitor (2).



9. Remove fan (1) by loosening and removing Phillips head fan screw (2) and washer. Keep eccentric from turning with 5/32" Allen wrench inserted through access port into setscrew while loosening fan screw.



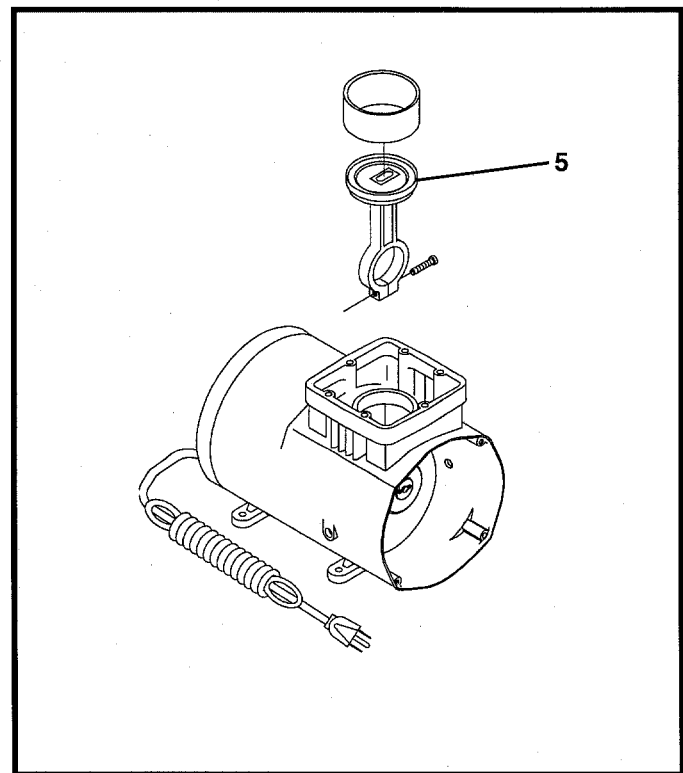
10. Turn the motor shaft to align the rod clamping screw with its access hole and use the 5/32" Allen wrench to loosen and remove the rod clamping screw (see illustrations for location of access hole).
11. Carefully pry the two halves of the connecting rod bearing bore (1) apart with a flat blade screwdriver until the Loctite[®] seal is broken.
12. Slide the connecting rod bearing bore (1) off the eccentric bearing (2).



⚠ Caution

Do not crimp or tear the connecting rod cup (5) when you remove the connecting rod from the compressor housing. If the cup is crimped, you must replace the connecting rod.

13. Remove the connecting rod assembly through the top of the compressor housing.



Checking Eccentric Alignment

⚠ Caution

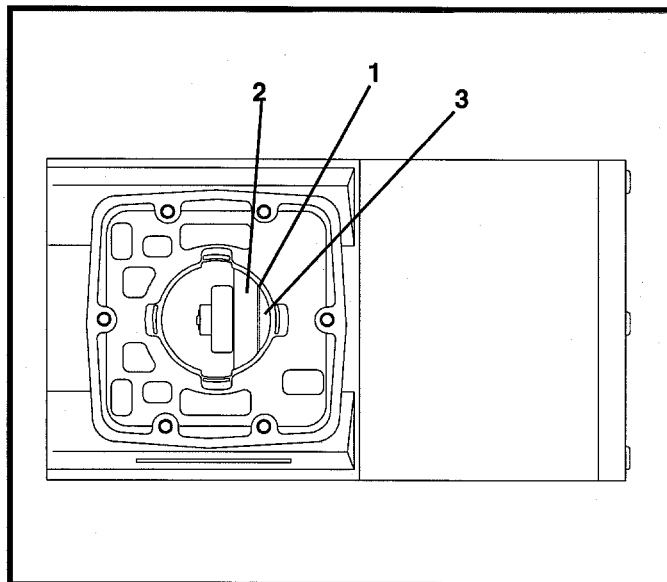
Before you replace the connecting rod, check eccentric alignment. Improper alignment will cause premature connecting rod failure.

Check the alignment of eccentric by observing the gap (1) between the eccentric (2) and the housing (3) at the outer edge of the eccentric as you look down through the top of the compressor.

Turn the eccentric by hand; the gap must not vary by more than 1/32". If the gap is out of tolerance:

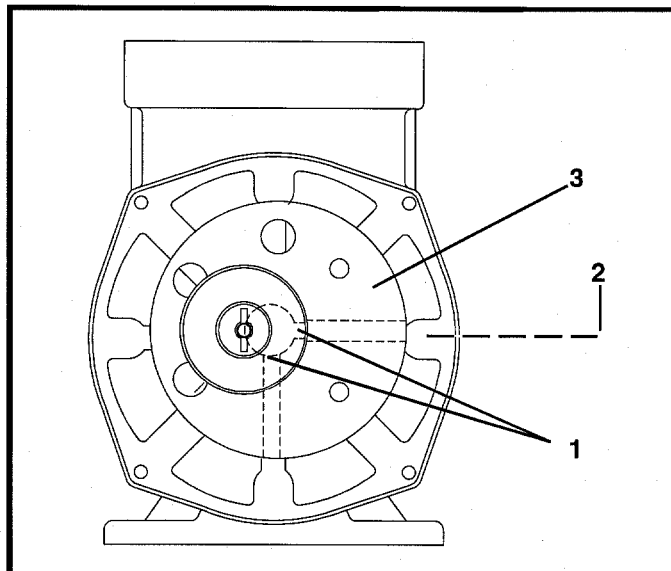
Note: In repositioning or replacing an eccentric, always use new setscrews to prevent screws loosening.

1. Try to reseal the eccentric by loosening setscrew(s) and repositioning it on the motor shaft.
2. If step "1" was not successful, try replacing eccentric.
3. If the motor shaft flat has been damaged by a loose setscrew, the flat can often be restored by filing or minor grinding.
4. If steps "1", "2", and "3" are not successful, the motor shaft is probably bent. Replace the compressor.



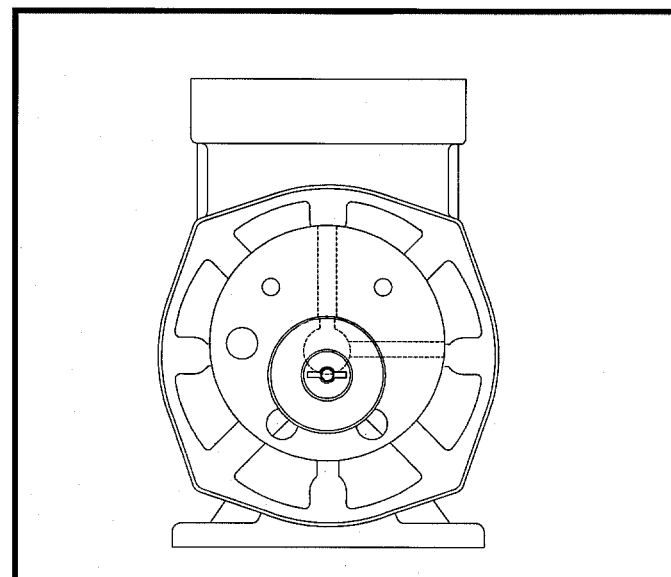
Replacing the Eccentric Assembly

1. Remove the connecting rod assembly (see previous instructions).
2. Turn the motor shaft to align the eccentric setscrew(s) (1) with the access hole (2) and use the 5/32" Allen wrench to remove the eccentric setscrew(s) (see illustration for location of access hole).

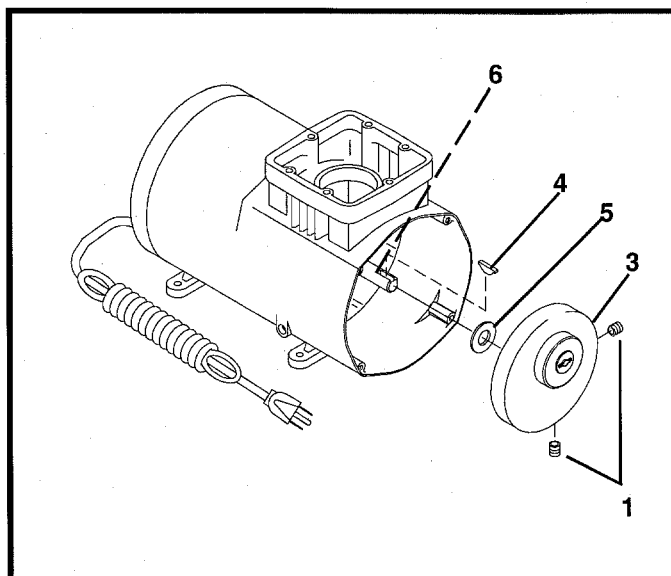


3. Pull the eccentric assembly (3) off the motor shaft.

Note: You may need to tap the eccentric or use a gear puller to free it from the motor shaft. Do not pry against housing ribs, which can be bent or damaged.



4. Remove the woodruff key (4).
5. Slide off the spacer (5).
6. Use 400-500 grit emery paper to clean the eccentric and motor shaft so they are free of rust and old Loctite®.
7. Clean old Loctite® from the outer race of the eccentric bearing or the connecting rod bore if either of them are to be reused.
8. Slide on spacer (5) until flush with motor shaft bearing (6).
9. Insert Woodruff key (4).



⚠ Caution

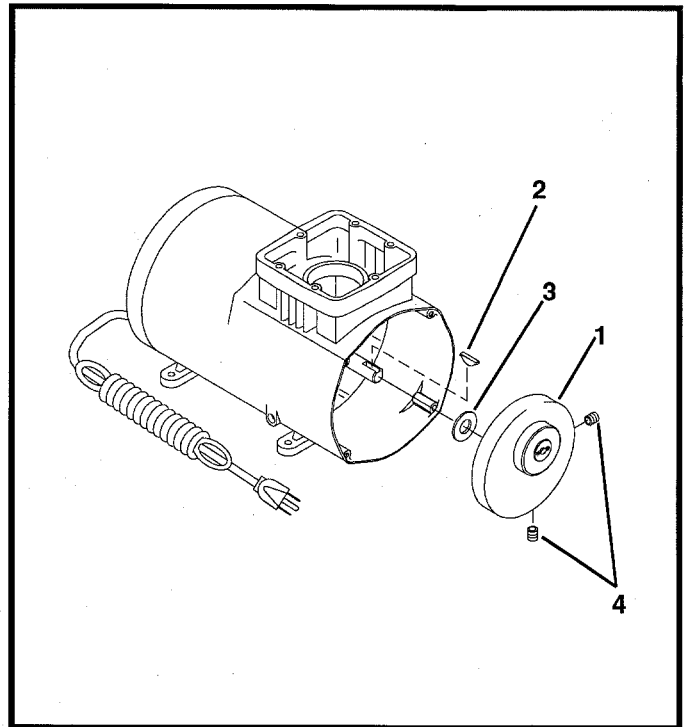
Check the alignment of eccentric after you install it to prevent premature wear of connecting rod.

10. Align notch of eccentric (1) with Woodruff key (2) and slide it on the motor shaft making sure it is flush with the spacer (3).

⚠ Caution

New eccentric setscrew(s) must be used since the Nylock[®] plug(s) are destroyed when you remove them.

11. Use a torque wrench with a 5/32" Allen drive and tighten new eccentric setscrew(s) (4) to 80 inch-pounds.



Installing the Connecting Rod Assembly

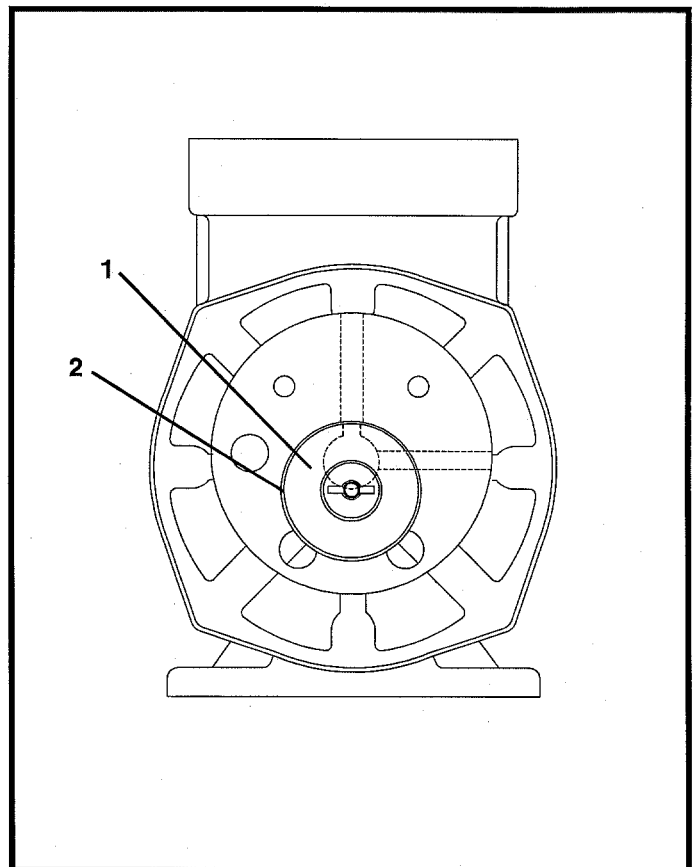
1. Check eccentric alignment and replace the eccentric if necessary.
2. Make sure eccentric bearing (1) is oriented as shown.
3. Clean old Loctite[®] from outer bearing race.

⚠ Caution

Check eccentric alignment before you install connecting rod assembly to avoid premature failure or breakage of connecting rod assembly.

4. Apply a light film of Loctite[®] 680 (or equivalent) around the outer race (2) of the eccentric bearing where shown on the illustration. Wipe off excess Loctite[®].

Note: Too much Loctite[®] may cause problems with compressor operation.



5. Apply one drop of Loctite® 242 (or equivalent) to the rod clamping screw (1).

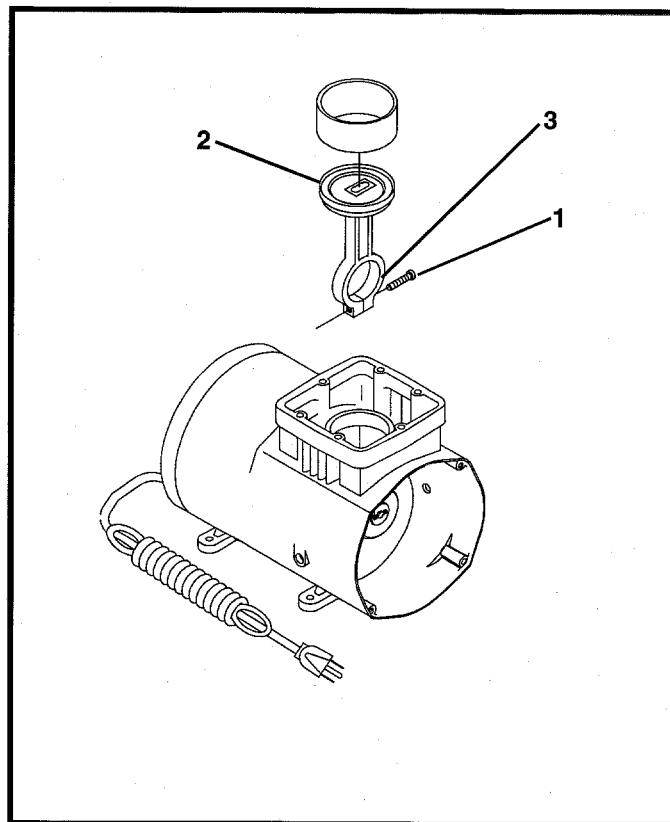
Note: Too much Loctite® may cause problems with compressor operation.

6. Insert the rod clamping screw into the connecting rod and turn it a few turns.

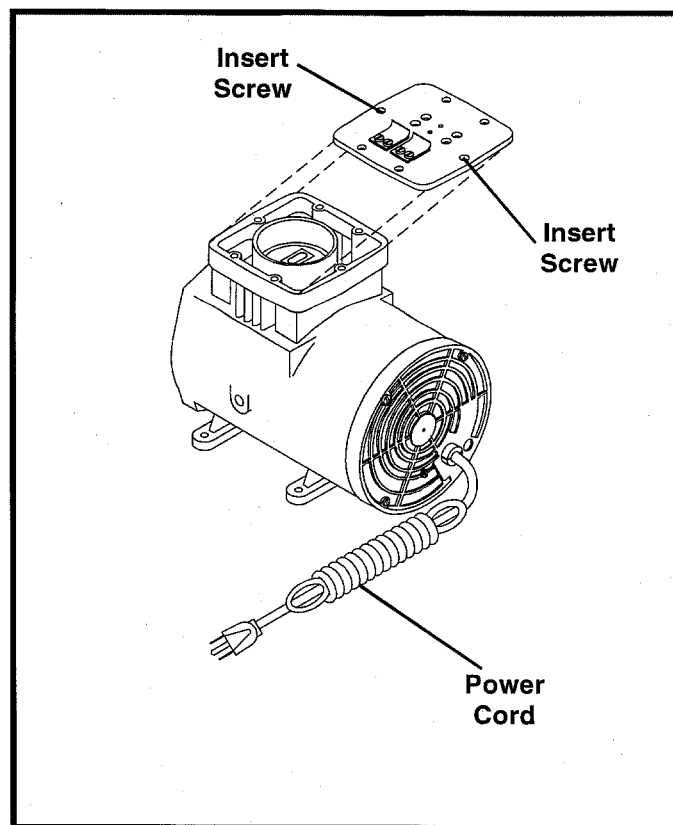
⚠ Caution

Do not crimp or tear the connecting rod cup (2) when you slide the connecting rod through the compressor housing. If the cup is crimped, you must replace the connecting rod.

7. Slide the connecting rod bearing bore (3) through top of the housing with the rod clamping screw facing as shown and slide the bearing bore over the eccentric bearing.
8. Make sure the front edge of the bearing bore is even with the front edge of the eccentric bearing.



9. Temporarily place the valve assembly on the compressor housing so the lip of the connecting rod sleeve fits into the O-Ring groove on the bottom of the valve assembly.
10. Slide the connecting rod back and forth so the holes on the valve assembly line up with the threaded holes on the compressor housing.
11. Temporarily insert two head screws into the threaded holes to make sure the valve plate stays in line.



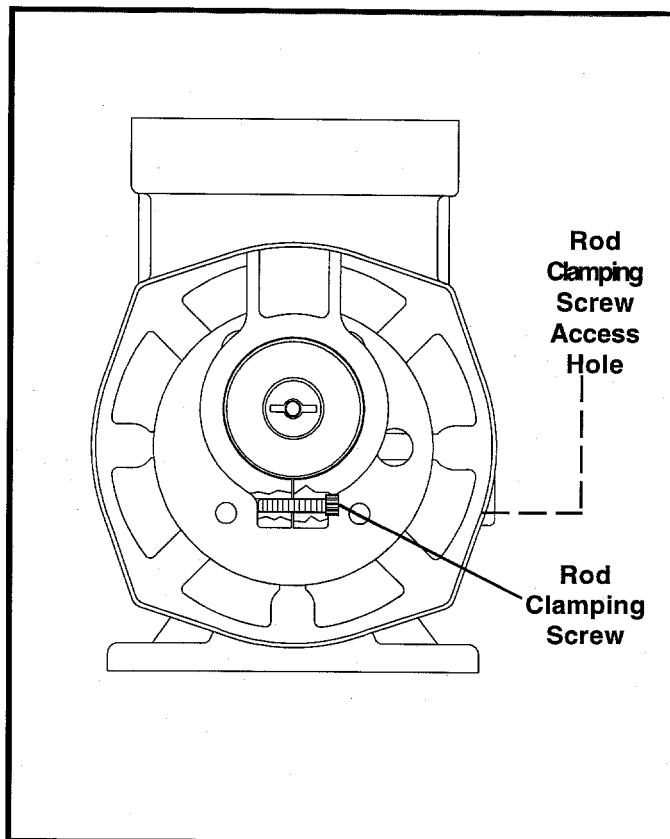
12. Align rod clamping screw with its access hole (see illustration).

⚠ Caution

Do not tighten rod clamping screw to more than 15 inch-pounds. If the screw is too tight, bearing damage and connecting rod breakage in the bore area of the rod will occur.

13. Use a 5/32" Allen wrench drive and your torque wrench to tighten the rod clamp screw to 15 inch-pounds.

Note: Make sure that the connecting rod bearing bore stays flush with the eccentric bearing as you tighten the rod clamping screw.

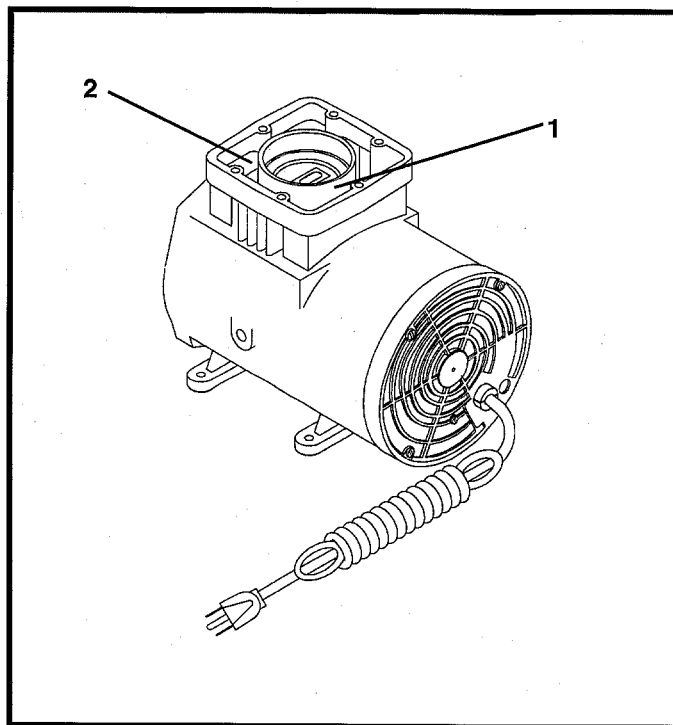


14. Hold the connecting rod sleeve (1) against the housing pads (2) as you turn the eccentric by hand.

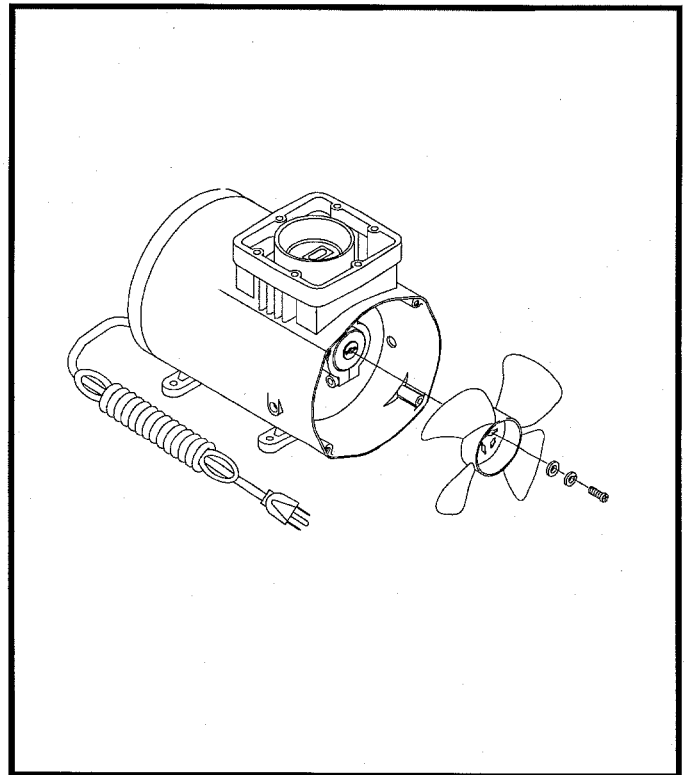
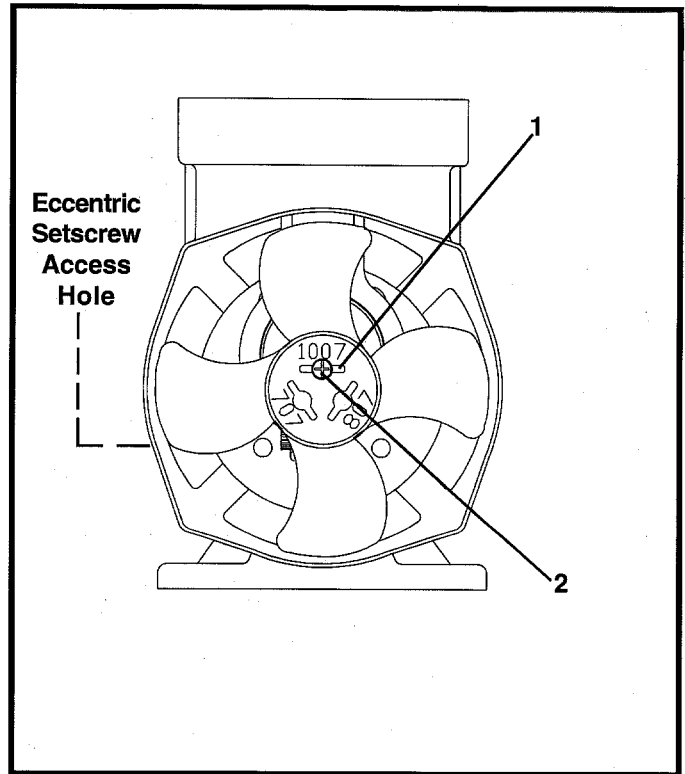
Note: 1/32" or more movement side to side will cause no difficulty. However, movement front to back (in line with the motor shaft) will result in rod breakage or premature cup failure of the rod.

The connecting rod sleeve must not move more than 1/32" while you turn the eccentric.

If the connecting rod sleeve moves more than 1/32", review the "Checking Eccentric Alignment" section for suggestions.



15. Align the eccentric setscrew with the setscrew access hole and temporarily insert a 5/32" Allen wrench into the setscrew to keep the shaft from turning when you fasten the fan.
16. Align the "1007" notch (1) in the fan with the nib on the eccentric.
17. Install the Phillips screw (2) and washer and tighten the screw to 30 inch-pounds.
18. Remove the Allen wrench.



Reassembling the Compressor

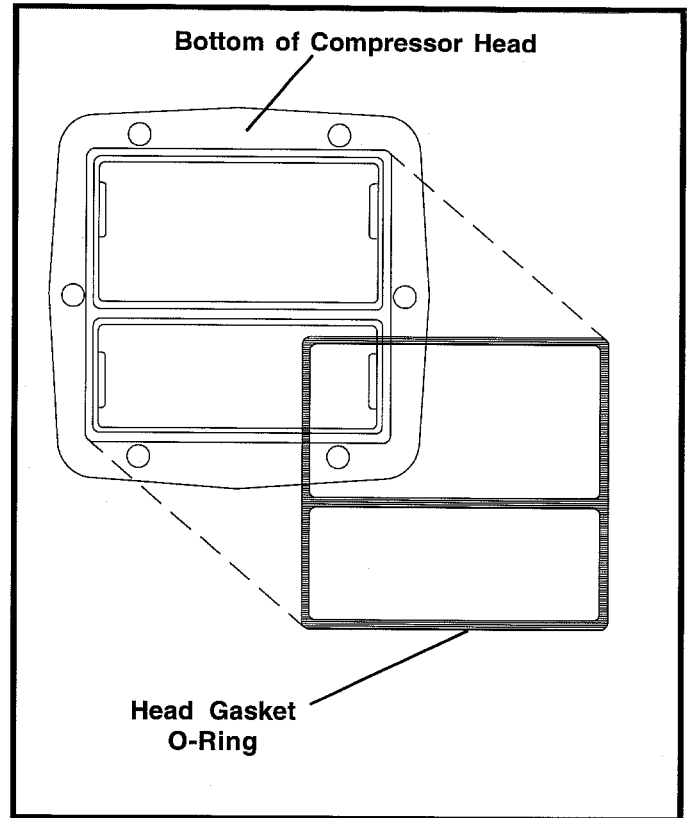
Once the connecting rod is fully assembled, you can reassemble the compressor.

⚠ Caution

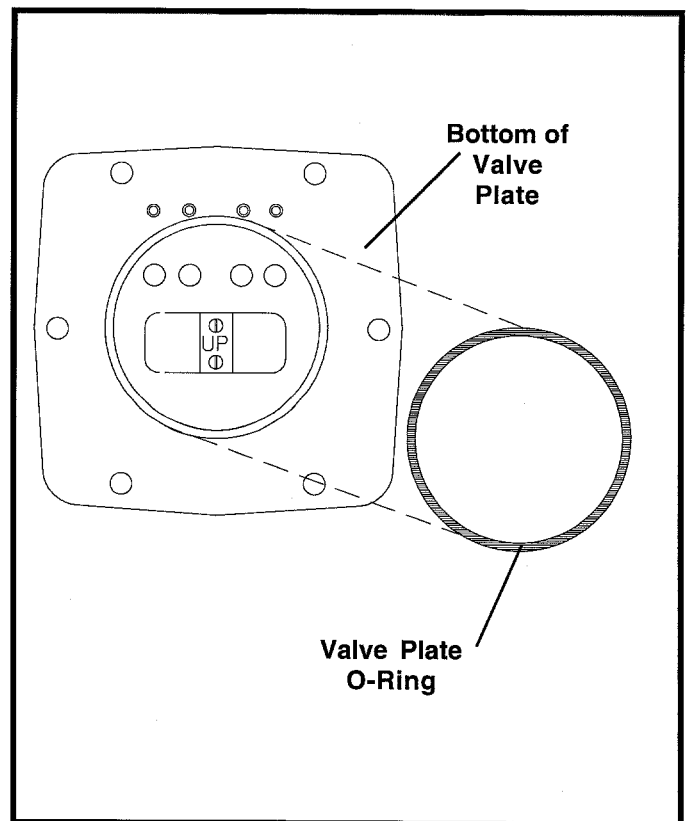
To prevent damage to the compressor, never apply any sealant or lubrication to the O-Rings.

Note: Some models use a rectangular O-ring gasket on the compression side of the head only.

1. Insert the head gasket O-Ring into the groove located on the bottom of the head.



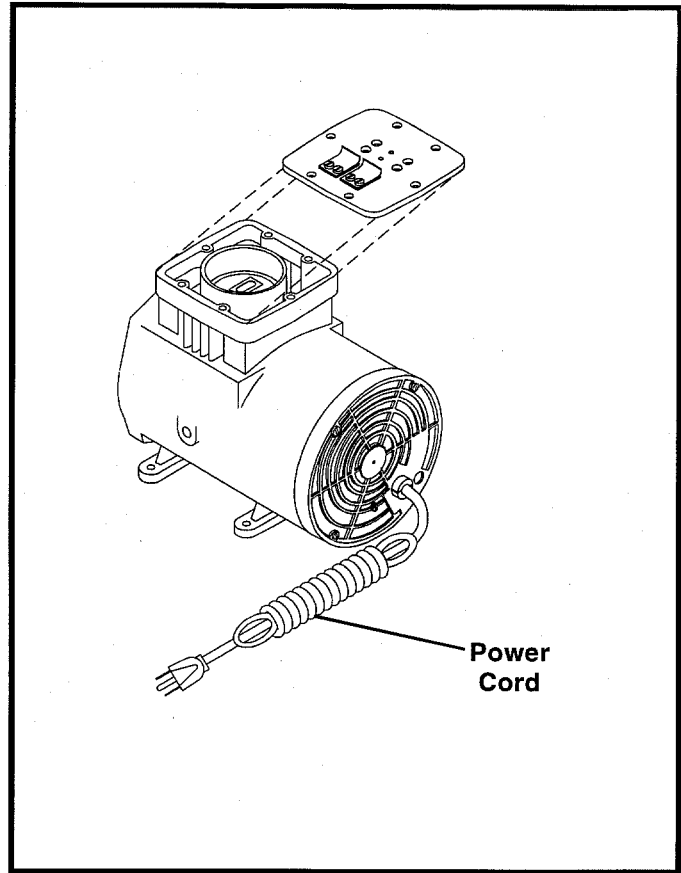
2. Insert the valve plate O-Ring into the groove located on the bottom of the valve plate.



3. Position the compressor housing as shown in the illustration. Notice the orientation of the power cord and recess in the connecting rod.

Note: Make sure that the connecting rod sleeve is seated against the compressor housing.

4. Observe the orientation of the valve plate assembly in the illustration and place it on the compressor housing.



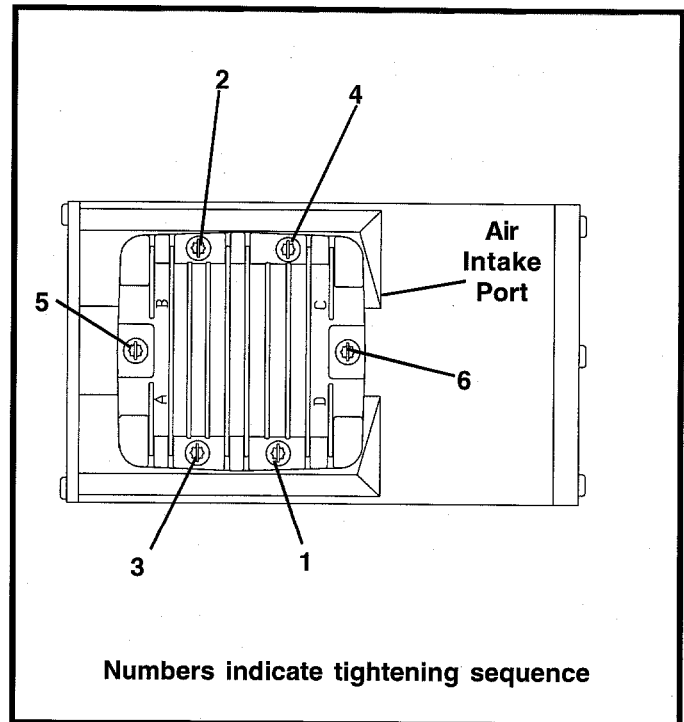
5. Place the head assembly on the valve plate assemblies, observing the position of the air intake, port.

Note: Make sure the gasket O-Rings are not pinched.

6. Insert the head screws and tighten each screw until it is snug in the sequence shown. Do not completely tighten the screws yet.
7. Using a torque wrench with the Torx® T-25 drive, tighten each head screw to 20 inch-pounds, in the sequence shown.
8. Remove air intake filter assembly from air intake port. (To check suction.)

⚠ Caution

To avoid property damage or personal injury, always try rotating the fan by **HAND**, prior to connecting the unit to the power source. Check for suction at the air inlet port by placing your finger over the port as you turn the fan. You should feel a slight suction with each rotation of the fan. If you don't feel suction, or if you feel or hear a thump as you turn the fan, **DO NOT CONNECT THE UNIT TO A POWER SOURCE**; review the assembly procedure for possible error.

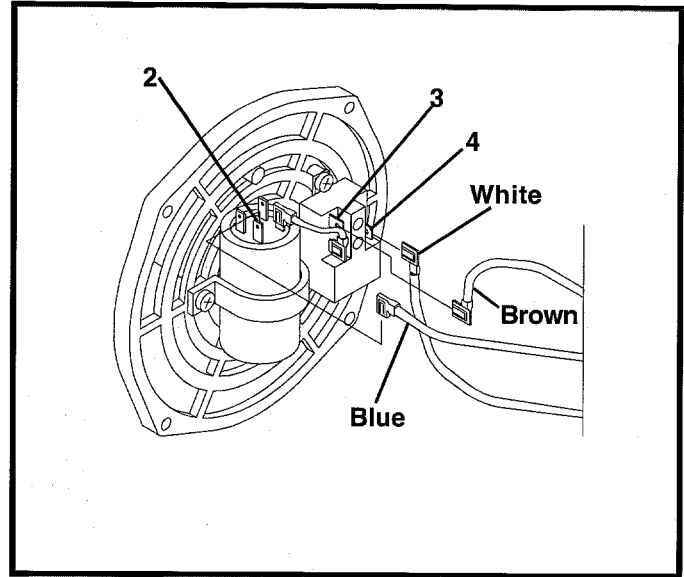


9. Install air intake filter assembly. Hand tighten - **DO NOT OVERTIGHTEN**.

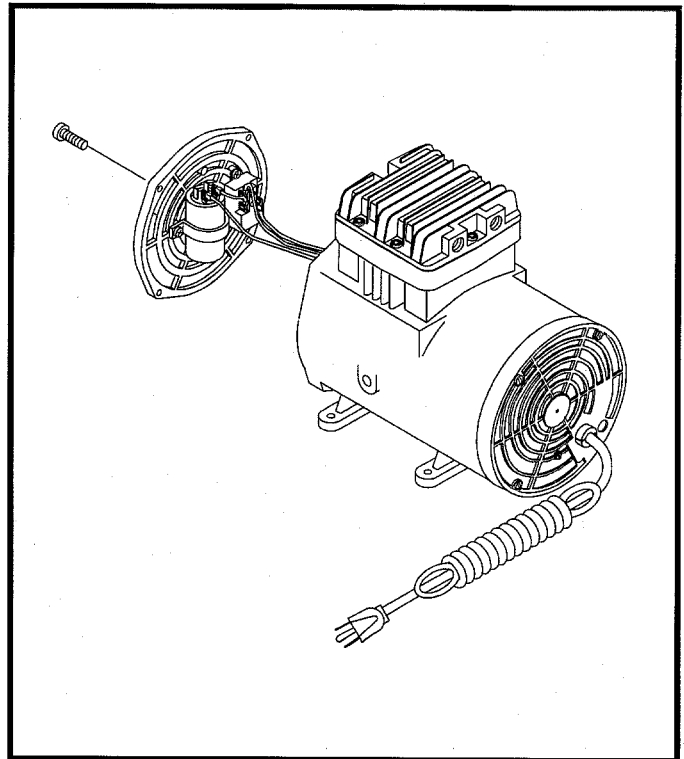
Note: Make sure the relay connectors point to the TOP of the compressor when you install the leads.

10. Connect the relay leads to the relay terminals:
Blue wire to terminal 2
Brown wire to terminal 3
White wire to terminal 4

11. Position wires against the top of the front cover and make sure they are away from the fan.



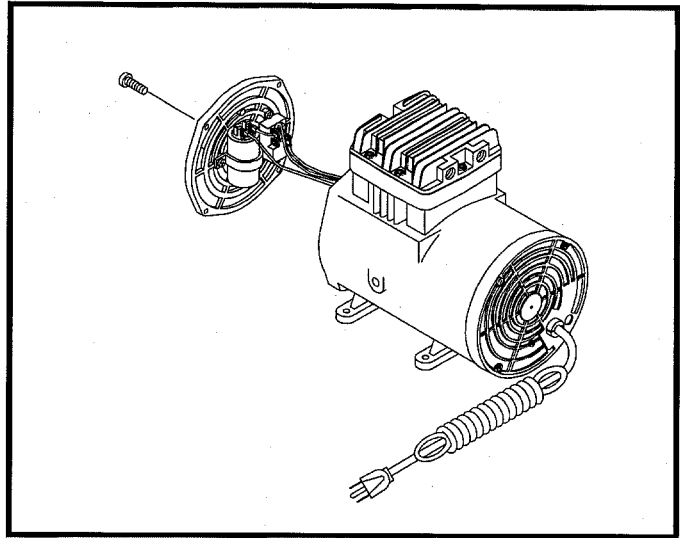
12. Install the front cover over the end of the compressor using four Torx® T-20 screws. Tighten the screws to 10 inch-pounds using a torque wrench.



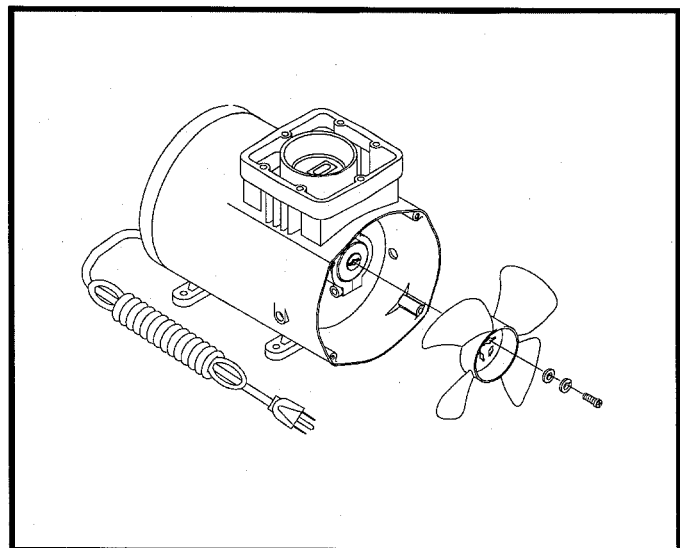
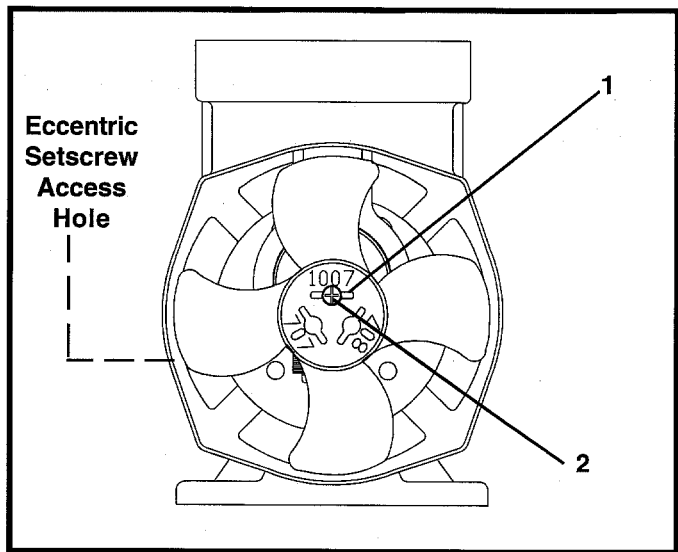
Servicing the Fan

1. Remove four Torx® T-20 screws that hold on the front cover and remove cover.

Note: Leave relay leads connected to relay.



2. Remove fan by loosening and removing Phillips head screw (2) and washer.
3. Align the eccentric setscrew with the setscrew access hole and temporarily insert a 5/32" Allen wrench into the setscrew to keep the shaft from turning when you fasten the fan.
4. Align the "1007" notch (1) in the fan with the nib on the eccentric.
5. Install the Phillips screw (2) and washer and tighten the screw to 30 inch-pounds.



6. Remove the Allen wrench.
7. Position wires against the top of the front cover and make sure they are away from the fan.
8. Install the front cover over the end of the compressor using four Torx® T-20 screws. Tighten the screws to 10 inch-pounds using a torque wrench.

