



DIRECTIONS FOR DISASSEMBLY & REASSEMBLY OF PRICE AOD 55 SRT*

*BODY: STAINLESS STEEL (S)
DIAPHRAGMS: RUBBER (R)
BALLS: TEFLON (T)

CAUTION: Before any maintenance or repair is attempted, the compressed air line to the pump should be disconnected and all air pressure allowed to bleed from the pump. Disconnect all intake, discharge, and air lines. Drain the pump by turning it upside down and allowing any fluid to flow into a suitable container. Be aware of any hazardous effects of contact with your process fluid.

The **PRICE AOD 55** has a 50 mm (2") inlet and outlet. 2" BSP connection

AVAILABLE MOCs:

- Polypropylene
- PVDF
- SS
- AL
- Cl

TOOLS REQUIRED:

- Wrench
- Allen Wrench
- Adjustable Wrench
- Vise equipped with soft jaws (such as plywood, plastic or other suitable material)

DISASSEMBLY



STEP 1 (Fig 1)

Before starting disassembly, mark a line from each liquid chamber to its corresponding air chamber. This line will assist in proper alignment during reassembly. (Fig 1)



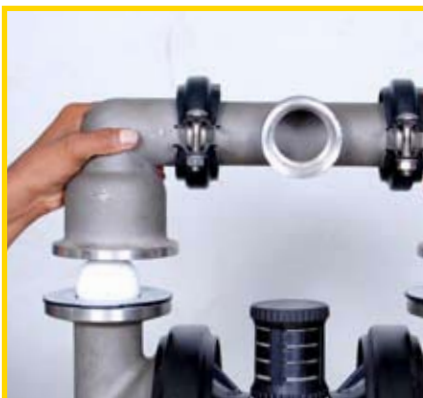
STEP 2 (Fig 2)

Utilizing a wrench, remove the two small clamp bands that fasten the discharge manifold to the liquid chambers. (Fig 2)



STEP 5 (Fig 5)

Remove the two small clamp bands which fasten the suction manifold to the liquid chambers. (Fig 5)



STEP 3 (Fig 3)

Lift away the discharge manifold to expose the valve balls and seats. (Fig 3)



STEP 6 (Fig 6)

Lift suction manifold from liquid chambers and centre section to expose suction valve balls and seats. Inspect ball cage area of liquid chamber for excessive wear and damage. (Fig 6)



STEP 4 (Fig 4)

Remove the discharge valve balls, O-rings and seats (Fig 4) from the liquid chambers and inspect for nicks, gouges, chemical attack or abrasive wear. Replace worn parts with genuine PRICE parts for reliable performance.



STEP 7 (Fig 7)

Remove the discharge valve balls, O-rings and seats (Fig 7) from the liquid chambers and inspect for nicks, gouges, chemical attack or abrasive wear. Replace worn parts with genuine PRICE parts for reliable performance.



STEP 8 (Fig 8)

Normally inlet and discharge manifolds should not be disassembled during regular pump maintenance. Should this be necessary, completely remove clamp bands and inspect O-rings for nicks, cuts and chemical attack. (Fig 8)



STEP 11 (Fig 11)

Using an adjustable wrench, or by rotating the diaphragm by hand, remove the diaphragm assembly. (Fig 11)



STEP 13 (Fig 14)

To remove diaphragm assembly from shaft, secure shaft with soft jaws (a vise fitted with plywood or other suitable material) to ensure shaft is not nicked, scratched, or gouged. Using an adjustable wrench or by hand, remove diaphragm assembly from shaft. Inspect all parts for wear and replace with genuine PRICE parts if necessary. (Fig 14)



STEP 9 (Fig 9)

Remove one set of large clamp bands, which secure one liquid chamber to the center section. (Fig 9)



STEP 12 (Fig 12)

NOTE: Due to varying torque values, one of the following two situations may occur:
 1) The lock nut (outer piston), diaphragm and holding plate (inner piston) remain attached to the shaft and the entire assembly can be removed from the center section (Fig 12).
 2) The lock nut (outer piston), diaphragm and holding plate (inner piston) separate from the shaft which remains connected to the opposite side diaphragm assembly (Fig 13). Repeat disassembly instructions for the opposite liquid chamber. Inspect diaphragm assembly and shaft for signs of wear or chemical attack. Replace all worn parts with genuine PRICE parts for reliable performance.



STEP 10 (Fig 10)

Lift liquid chamber away from center section to expose diaphragm and outer piston. (Fig 10)

REASSEMBLY

Upon performing applicable maintenance to the air distribution system, the pump can now be reassembled. Please refer to the disassembly instructions for photos and parts placement. To reassemble the pump, follow the disassembly instructions in reverse order. The air distribution system needs to be assembled first, then the diaphragms and finally the wetted path. Please find the applicable torque specifications on this page. The following tips will assist in the assembly process.

- Clean the inside of the center section shaft bushing to ensure no damage is done to new seals.
- Stainless bolts should be lubed to reduce the possibility of seizing during tightening.
- Ensure proper alignment on the sealing surfaces of intake and discharge manifolds.
- Liquid chambers are easier to attach when the diaphragm is inverted. Prior to attaching the second water chamber, push diaphragm assembly so that it is as close as possible to the center section.
- PVDF pumps require Teflon® gasket kits for improved sealing. Gasket kits may be installed on other pumps where sealing is an issue.

MAXIMUM TORQUE SPECIFICATIONS

DESCRIPTION OF PART	PLASTIC PUMPS
AIR VALVE	3.4m-N[30in.-lbs.]
OUTER PISTON	51.5m-N[38ft.-lbs.]
SMALL CLAMP BAND	9.6m-N[85in.-lbs.]
LARGE CLAMP BAND (Rubber fitted)	18.6m-N[165in.-lbs.]
LARGE CLAMP BAND (Teflon fitted)	18.6m-N[165in.-lbs.]



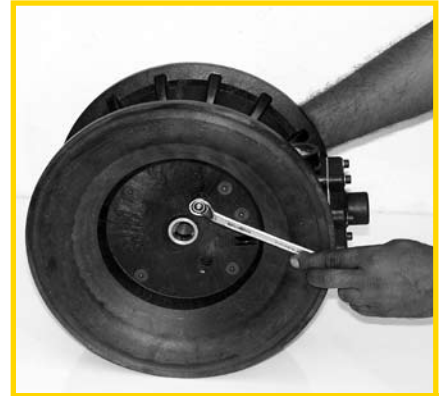
DIRECTIONS FOR DISASSEMBLY & REASSEMBLY OF AIR VALVE / CENTER BLOCK FOR PRICE AOD 50/55

*WITH RUBBER DIAPHRAGMS



STEP 2 (Fig 2)

Remove the locknuts (outer piston) with the help of a Bench vice.



STEP 5 (Fig 5)

Remove pilot shaft by unscrewing two nylock nuts if found damage replace them. (Fig 5)



STEP 3 (Fig 3)

Remove the diaphragm & lock nut If diaphragm are damaged replace them (always replace both the diaphragm). (Fig 3)



STEP 6 (Fig 6)

Remove the piston block from the shaft block and air cover. (Fig 6). There is no need to dismantle the air covers if there is no air leakage from the air covers. (Fig 6)

DISASSEMBLY



STEP 1 (Fig 1)

Fix the lock nut (outer piston) on the wise.



STEP 4 (Fig 4)

Now check the centre block i.e. air valve with air cover Take out main shaft, replace If worn out or scored. Check shaft block bush 'O' rings, replace If worn out. (Fig 4)

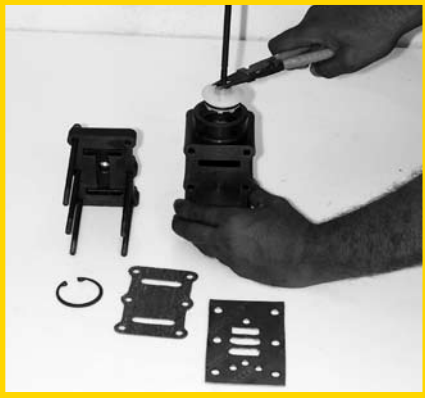


STEP 7 (Fig 7)

Remove circlip from piston block, check the piston block gasket. Replace it if damaged. (Fig 7)

ASSEMBLY

For assembly, follow the reverse procedure.



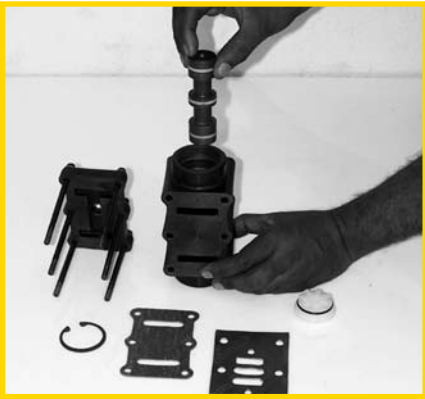
STEP 8 (Fig 8)

Take out the piston block cap by using mounting bolts. Check the cap with 'O' ring. (Fig 8)



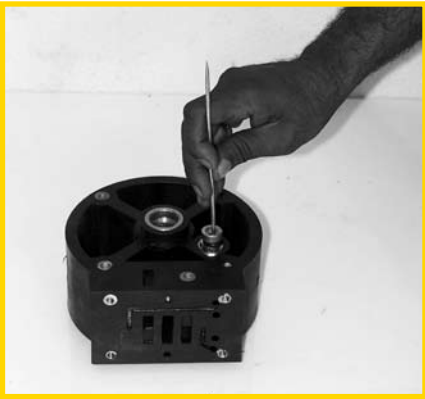
STEP 11 (Fig 11)

Remove air cover and check the gaskets. (Fig 11)



STEP 9 (Fig 9)

Remove the piston and check it. Replace it if worn out. (Fig 3)



STEP 12 (Fig 12)

Remove the pilot shaft bushes and check it. Check the O rings, replace if worn out. (Fig 12)



STEP 10 (Fig 10)

Unscrew the allen bolts to remove the air cover.



STEP 13 (Fig 13)

Inspect shaft block, air covers, shaft block gasket, allen bolts, pilot shaft bushes, O-rings. If found damaged, replace them.(Fig 13)