

## DRUM MOUNTING KIT FOR MODEL 180D OR 360D PUMPS

### Introduction

The drum mounting kit allows a Nordson® Model 180D or 360D pump to be mounted directly on a 55 gallon drum of coating material. The drum mount kit allows the pump inlet to be immersed in the coating material and is the best method for pumping primers and heavy bodied paints and coatings. The drum cover reduces coating contamination and solvent loss. The conversion kit requires minor modification of the pumps, which mainly involves replacement of the siphon housing. See Figure 1 for comparison.

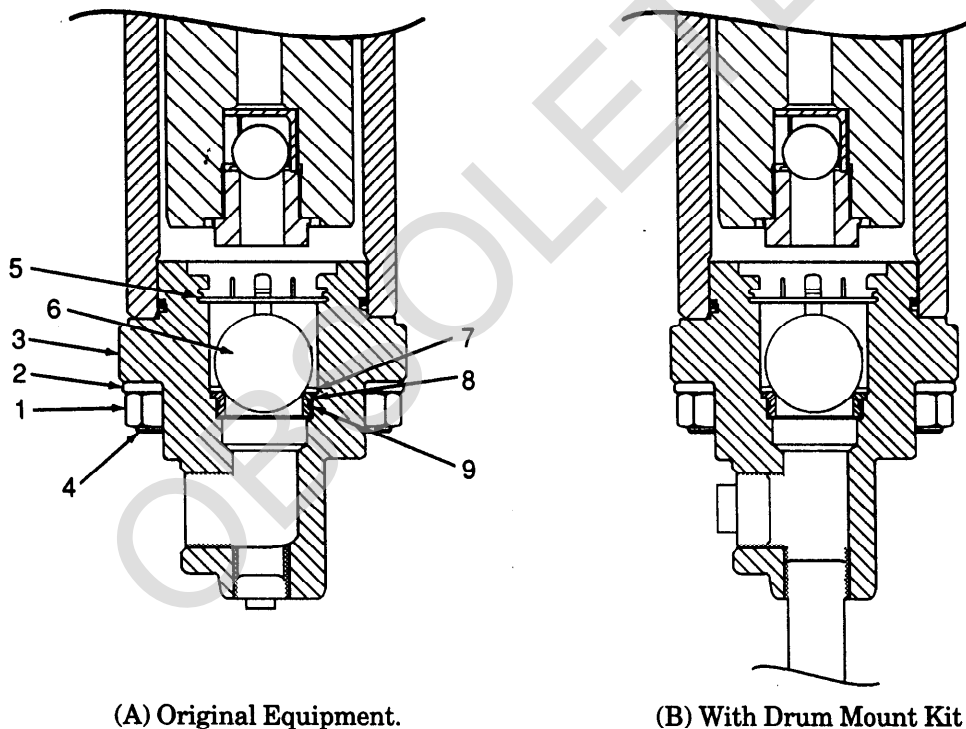


Figure 1- Cutaway View, Siphon Housings. .

### Installation

Install the drum conversion kit as follows:

1. Remove the air supply and bleed off all hydraulic pressure from the 180D/360D pump.

2. Remove the siphon hose and strainer from the pump.
3. Refer to Figure 1A. Remove the M16 hex nuts (1) and lock-washers (2) retaining the siphon housing (3) to the pump.
4. Slide the siphon housing (3) off the mounting screws (4) on the pump.
5. Remove the ball retaining clip (5), ball (6), seat retaining ring (7), and ball seat (8) from the pump. Remove and discard O-ring (9)
6. Refer to Figure 2. Apply a light coating of O-ring lubricant to the O-rings supplied with kit, install O-ring (8) on ball seat (8, Fig 1). Install O-ring (6) and back-up ring (10, where used), into the bottom inlet siphon housing (7).

**CAUTION: Ball (6) and ball seat (8) should be replaced as a pair. Do not use an old seat with a new ball, or an old ball with a new seat. Replace as a pair.**

7. Install the ball seat, seat retaining ring, ball, and ball retaining clip as removed from the old siphon housing into the new siphon housing (7).
8. Slide bracket (3) onto pump bolts (4:1 and 8:1 pumps) or studs (all others).
9. Slide siphon housing (7) onto screws, replace M16 nuts and lock-washers removed in step 3 above.
10. Slide the bracket (3) up to the base of the pump upper gland housing.
11. Mount the filter assembly on either on the side of the pump (as pictured in Figure 2), or on the wall near the drum.
12. Install four hex head cap screws (1) and lockwashers (2) through bracket (3) and into pump solvent chamber. If the filter is to be mounted on the side of the pump as pictured in Figure 2, use the hardware supplied with the filter to retain the filter and bracket (3) to the side of the pump in lieu of two of the four cap screws and washers as described above.

13. Slide pump assembly through drum cover (4) and attach with four hex head cap screws (1), nuts (5) and lockwashers (2). It will be necessary to drill a hole in the drum cover for the filter drain if the filter is mounted on the side of the pump as pictured in Figure 2.
14. Install siphon tube (9) into siphon housing (7) using pipe thread sealant to assure there is no leakage.
15. Clean and install strainer, removed in step 2, onto siphon tube.
16. Install pipe plug (11) in siphon housing (7) as shown in Figure 2.
17. Place pump assembly onto drum. If siphon tube (9) is too long, remove the pump assembly from the drum, remove the strainer and cut the siphon tube to the desired length. The end of the siphon tube must be cut at a minimum of 15°. Reinstall strainer and place pump assembly onto drum.
18. Reconnect air supply to pump.
19. See Nordson manual 1-10 for start up procedure.

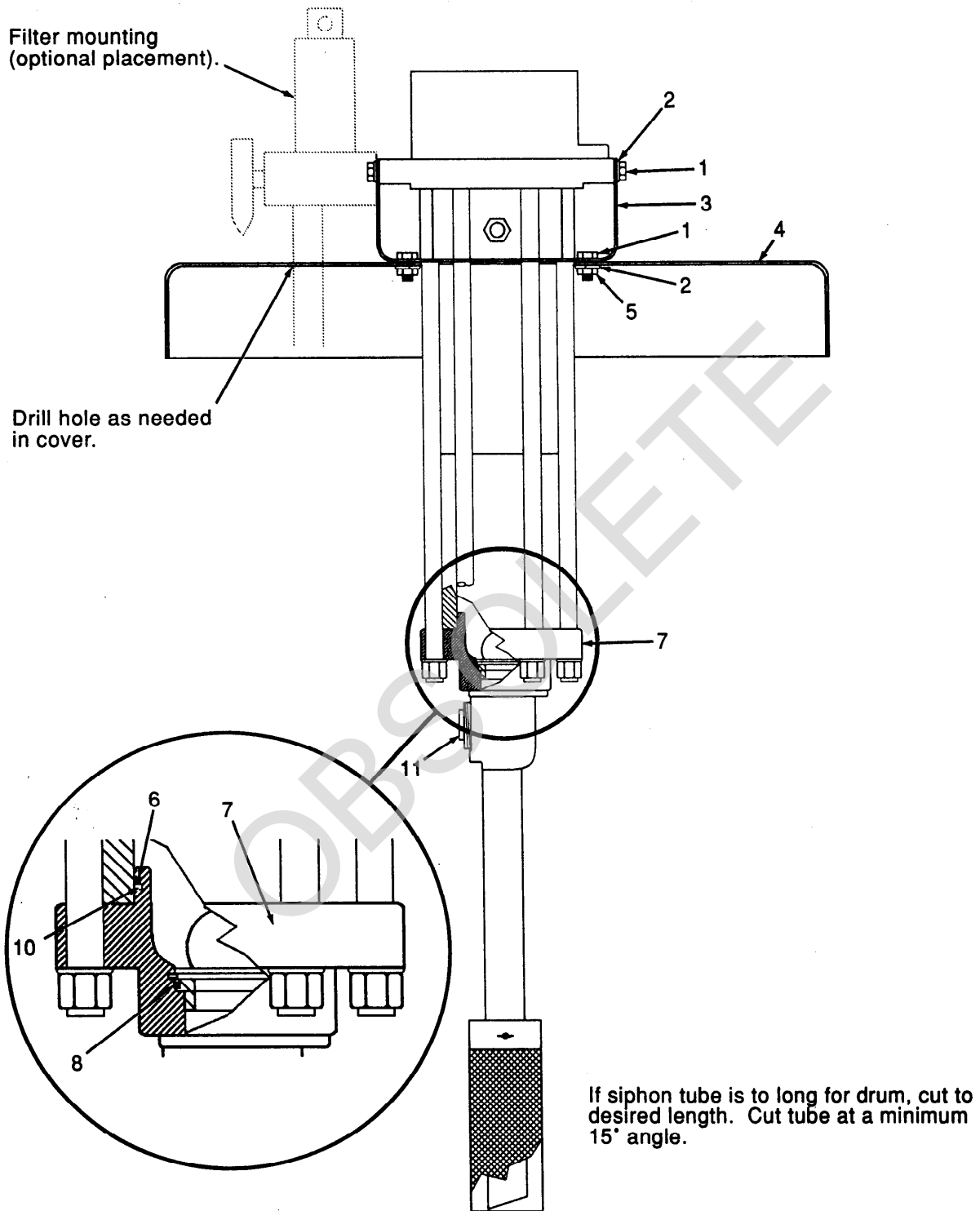


Figure 2- Drum Conversion Kit.

Figure 2- Drum Conversion Kit.

Note: Names of parts included in an assembly are indented to each assembly or sub-assembly.

REF.	NOTE	PART NO.	DESCRIPTION	QTY.
---	A	111 510	Kit, Conversion, 55 Gal. Drum	---
1		981 309	• Screw, Hex Hd., 5/16-18 x 3/4	8
2		983 150	• Washer, Lock, 5/16	8
3		111 506	• Bracket, 55 Gal. Drum	1
4		111 509	• Cover, 55 Gal. Drum	1
5		984 140	• Nut, Hex, 5/16-18	4
6		942 340	• O-Ring, 3.0 x 3.25 x 0.125	1
7		111 500	• Housing, Siphon	1
8		940 280	• O-Ring, 1.50 x 1.375 x 0.0625	1
9		111 503	• Tube, Siphon	1
10		954 041	• Ring, Backup	1
11		973 440	• Plug, Pipe, 1" NPT	1

NOTE (A) - This kit is used on the 12:1, 24:1, 16:1, and 32:1 180D/360D pumps ONLY.

REF.	NOTE	PART NO.	DESCRIPTION	QTY.
---	A	111 511	Kit, Conversion, 8/4:1, Drum	---
1		981 309	• Screw, Hex Hd., 5/16-18 x 3/4	8
2		983 150	• Washer, Lock, 5/16	8
3		111 508	• Bracket, 8/4:1	1
4		111 509	• Cover, 55 Gal. Drum	1
5		984 140	• Nut, Hex, 5/16-18	4
6		942 440	• O-Ring, 4.25 x 4.50 x 0.125	1
7		111 499	• Housing, Siphon	1
8		940 312	• O-Ring, 1.75 x 1.875 x .0625	1
9		111 501	• Tube, Siphon	1
10		---	NOT USED	
11		973 440	• Plug, Pipe, 1" NPT	1

NOTE (A) - This kit is used on the 4:1 and 8:1 180D/360D pumps ONLY.

OBSOLETE