

Technical Document

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PCNC 440™ Flood Coolant Kit

Product Identification: PCNC 440 Flood Coolant Kit (PN 35719)

Purpose: This document details installation of a flood coolant kit on a PCNC 440 mill.

Qty.	PCNC 440 Flood Coolant Kit	PN
ı	115 VAC Coolant Pump	32746
I	Coolant Tank	35711
I	Coolant Hose Adapter	35989
ı	Chrome-Armored Hose (includes 2 washers)	30725
ı	I/4" Coolant Hose	32833
ı	3/4" ID Clear Tubing	37115
I	Chip Screen	37112
I	Funnel Tray	37113
2	Hose Clamp	37116
8	10-32 x 1/2" Screw	34100
4	Rubber Washer	37114
8	10-32 Nut	34101
	Coolant Tank Cover	35710

NOTE: If any of these items are missing, contact Tormach Customer Service at (608) 849-8381 for a replacement.

NOTE: Wrap threads on pump's elbow adapter and Coolant Hose Adapter with thread seal tape (plumber's tape).

Coolant System Installation

- 1. Place Coolant Tank Cover on top of Coolant Tank.
- 2. Using four 10-32 x 1/2" Screws and 10-32 Nuts, mount Coolant Pump to Coolant Tank Cover (see **Figure 1**); insert one end of 3/4" ID Clear Tubing in cover.

NOTE: One Hose Clamp can be used on end of 3/4" ID Clear Tubing to prevent hose pull out from tank.



Required Tools:

- Plumber's tape
- Electric drill
- Center punch
- Silicone sealant
- · Adjustable wrench
- · Phillips screwdriver

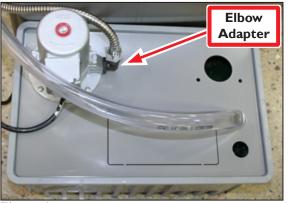


Figure I

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Specifications subject to change without notice.

TD10405 PCNC440 FloodCoolant Kit 0316A



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- Insert Coolant Hose Adapter into pre-installed Mounting Bracket on mill column (see Figure 2).
- 4. Tighten fixing screw to secure adapter position.
- 5. Connect 1/4" Coolant Hose to Coolant Hose Adapter (see **Figure 2**).

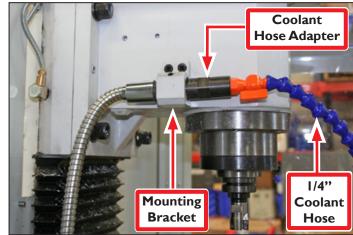


Figure 2

- Insert one silicone washer (included) into each end of Chrome-Armored Hose (see Figure 3).
- Route Chrome-Armored Hose around back of mill and connect to Coolant Hose Adapter (see Figure 2); connect opposite end of hose to Elbow Adaptor on pump (see Figure 1).

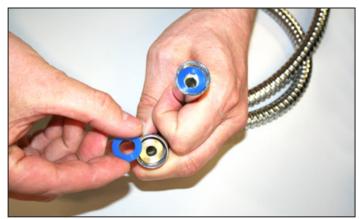


Figure 3

8. Remove Chip Pan Access Panel (see Figure 4) and drop in Chip Screen (see Figure 4 inset).

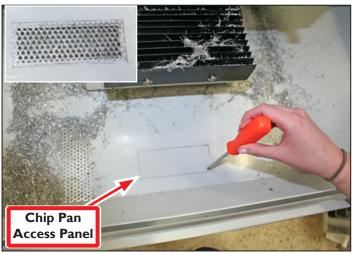


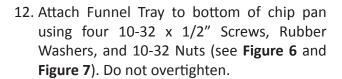
Figure 4

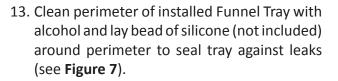


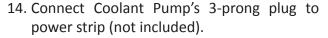
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- 9. Slip Hose Clamp on loose end of 3/4" ID Clear Tubing and attach assembly to Funnel Tray (see **Figure 5 inset**).
- 10. On underside of chip pan, match Funnel Tray up with Access Panel opening (see **Figure 5**); mark four screw holes with a marker.
- 11. Use center punch to mark four locations and use 7/32" drill bit (not included) to drill through chip pan at four marked locations.







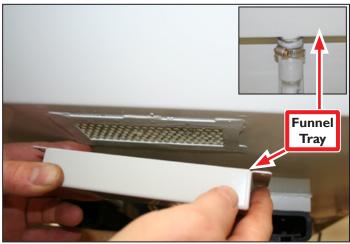


Figure 5



Figure 6



Figure 7