

MAXPRO200[®] ***Flow Meter Replacement***

Field Service Bulletin

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Hypertherm[®]

Hypertherm, Inc.

Etna Road, P.O. Box 5010

Hanover, NH 03755 USA

603-643-3441 Tel (Main Office)

603-643-5352 Fax (All Departments)

info@hypertherm.com (Main Office Email)

800-643-9878 Tel (Technical Service)

technical.service@hypertherm.com (Technical Service Email)

800-737-2978 Tel (Customer Service)

customer.service@hypertherm.com (Customer Service Email)

866-643-7711 Tel (Return Materials Authorization)**877-371-2876 Fax (Return Materials Authorization)**

return.materials@hypertherm.com (RMA email)

Hypertherm Plasmatechnik GmbH

Technologiepark Hanau

Rodenbacher Chaussee 6

D-63457 Hanau-Wolfgang, Deutschland

49 6181 58 2100 Tel

49 6181 58 2134 Fax

49 6181 58 2123 (Technical Service)**Hypertherm (S) Pte Ltd.**

82 Genting Lane

Media Centre

Annexe Block #A01-01

Singapore 349567, Republic of Singapore

65 6841 2489 Tel

65 6841 2490 Fax

65 6841 2489 (Technical Service)**Hypertherm (Shanghai) Trading Co., Ltd.**

Unit 301, South Building

495 ShangZhong Road

Shanghai, 200231

PR China

86-21-60740003 Tel

86-21-60740393 Fax

Hypertherm Europe B.V.

Vaartveld 9

4704 SE

Roosendaal, Nederland

31 165 596907 Tel

31 165 596901 Fax

31 165 596908 Tel (Marketing)

31 165 596900 Tel (Technical Service)**00 800 4973 7843 Tel (Technical Service)****Hypertherm Japan Ltd.**

Level 9, Edobori Center Building

2-1-1 Edobori, Nishi-ku

Osaka 550-0002 Japan

81 6 6225 1183 Tel

81 6 6225 1184 Fax

Hypertherm Brasil Ltda.

Rua Bras Cubas, 231 – Jardim Maia

Guarulhos, SP - Brasil

CEP 07115-030

55 11 2409 2636 Tel

55 11 2408 0462 Fax

Hypertherm México, S.A. de C.V.

Avenida Toluca No. 444, Anexo 1,

Colonia Olivar de los Padres

Delegación Álvaro Obregón

México, D.F. C.P. 01780

52 55 5681 8109 Tel

52 55 5683 2127 Fax

Hypertherm Korea Branch

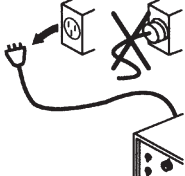
#3904 Centum Leaders Mark B/D,

1514 Woo-dong, Haeundae-gu, Busan

Korea, 612-889

82 51 747 0358 Tel

82 51 701 0358 Fax

		DANGER! ELECTRIC SHOCK CAN KILL
 Disconnect electrical power before performing any maintenance. All work requiring removal of the power supply cover must be performed by a qualified technician. See the <i>Safety</i> section of the system's manual for more safety precautions.		

Introduction

Purpose

This Field Service Bulletin explains how to replace the flow meter in the MAXPRO200 power supply.

Kit contents – 428037

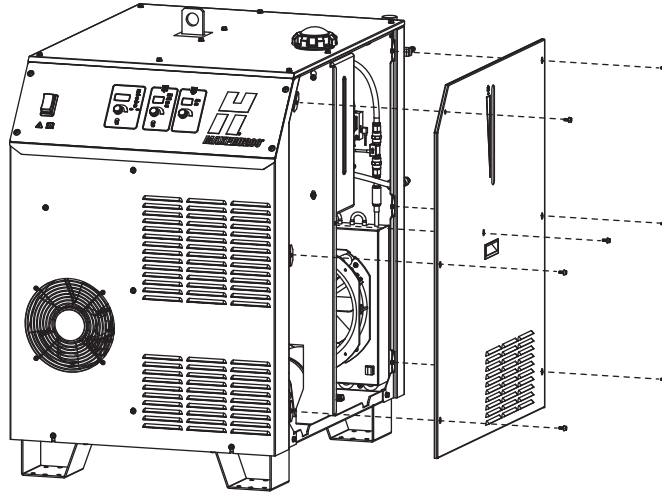
Part Number	Description	Quantity
229475	Flow meter assembly	1

Required tools and materials

- 3/8 inch wrench

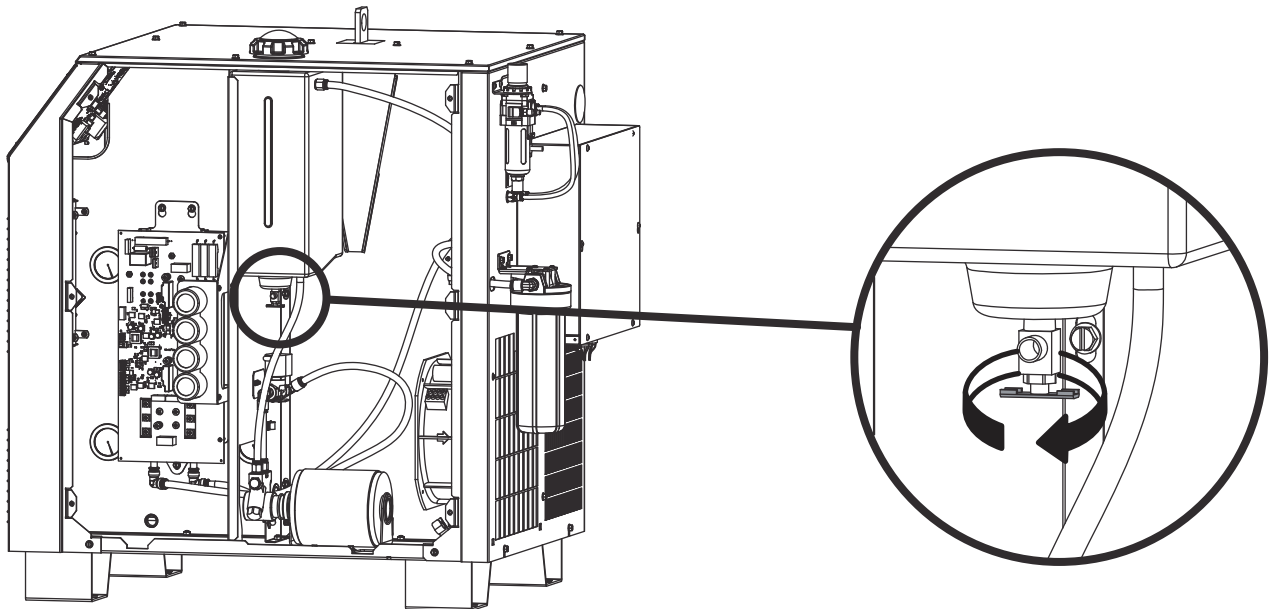
Remove right-side panel

1. Turn OFF power to the system.
2. Disconnect line power by turning OFF the main disconnect switch.
3. Use a 3/8 inch wrench to remove the side panel screws.



Drain the coolant system

Locate the coolant drain valve and use a 20 liter (5 gallon) container to catch the coolant. Coolant will flow as soon as the drain is opened. Close the drain valve when the coolant stops flowing.

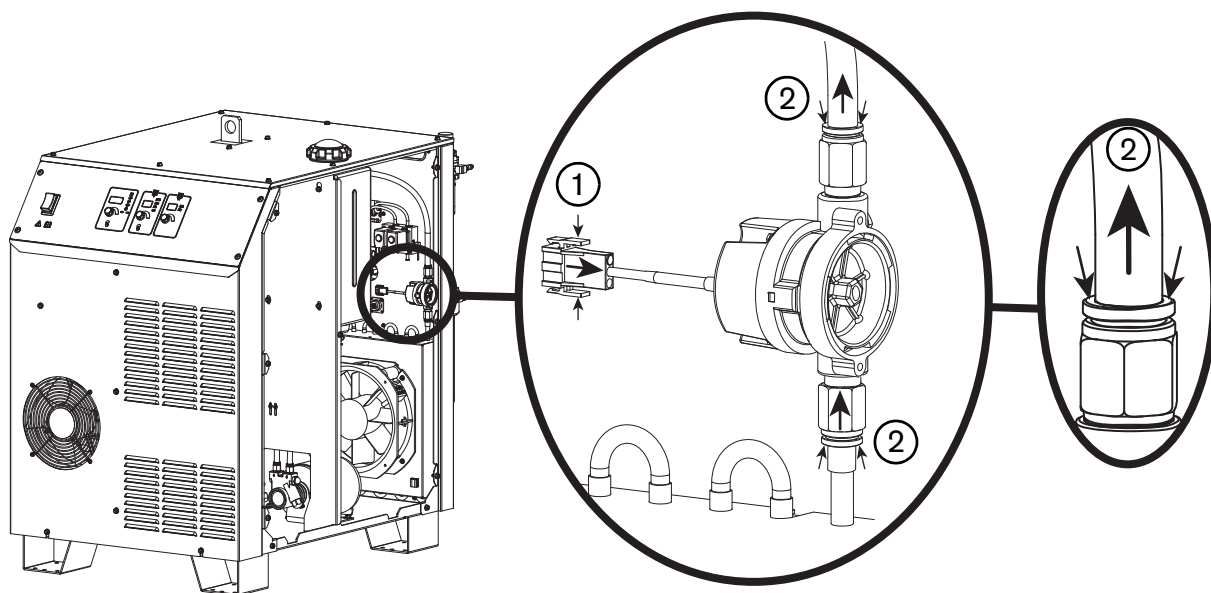


Note: If the coolant does not contain any dirt or particulates, you can reserve it for refilling the coolant system. If you fill the system with new coolant, dispose of used coolant according to local and national codes.

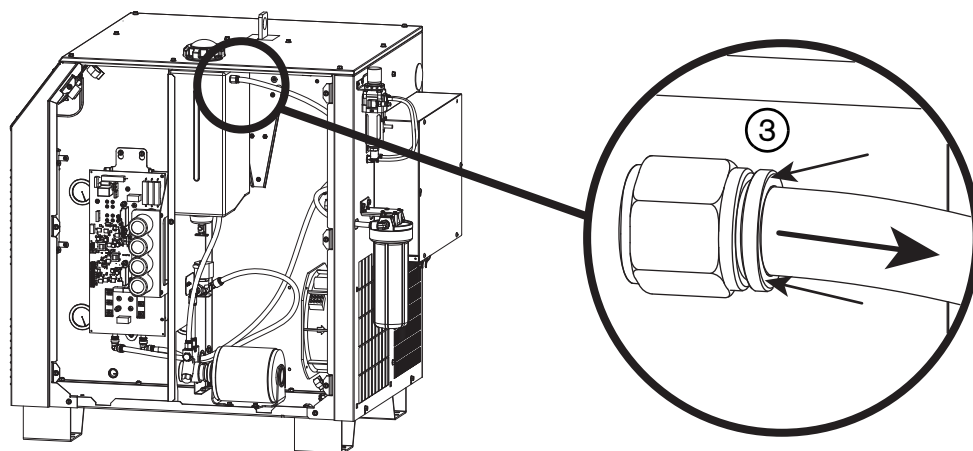
Remove the existing flow meter

1. Disconnect the connector labeled “FL1” from the flow switch.
2. Disconnect the coolant hose from the top fitting of the flow meter assembly and disconnect the flow meter assembly from the heat exchanger. To disconnect a fitting, push the connector-collar and hose toward the fitting, hold the collar in place and pull the hose away from the fitting

Note: Some coolant will drain from the hose when you remove it.

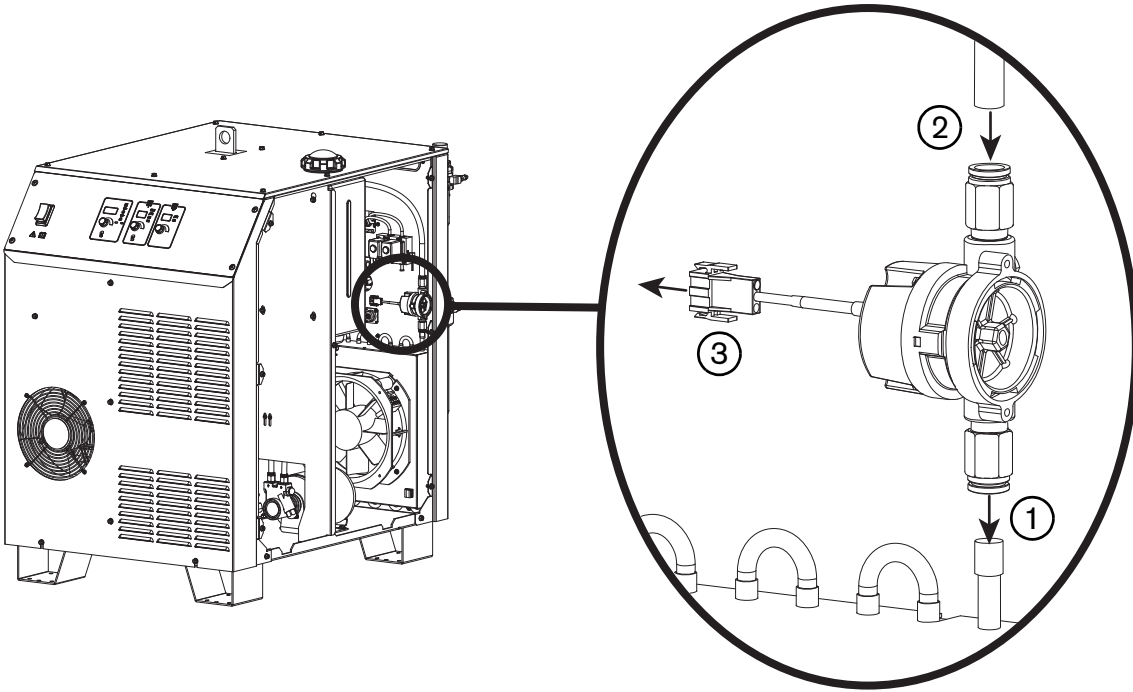


3. Remove the coolant return hose from the coolant tank. Save the hose for reuse.

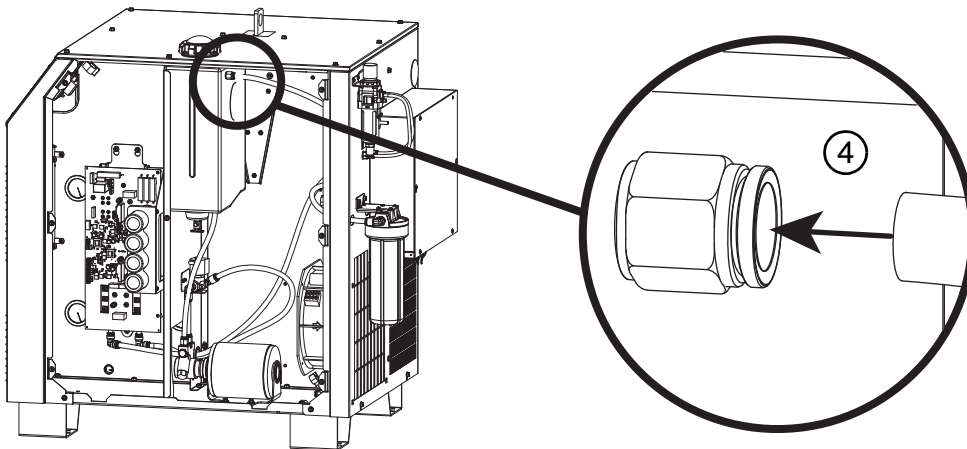


Install the new flow meter

1. Connect the flow meter to the heat exchanger by carefully pushing the flow meter fitting straight down onto the copper pipe until it stops. **Make sure the rotor and window face the side panel and that the cable points toward the center panel.** See the figure below.
2. Connect the coolant hose that was removed earlier to the top fitting of the flow meter.
3. Connect the “FL1” connector from the flow switch to the corresponding wire harness connector.



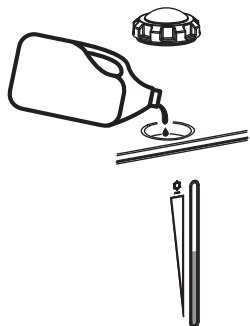
4. Connect the coolant return hose to the coolant return fitting on the coolant tank.



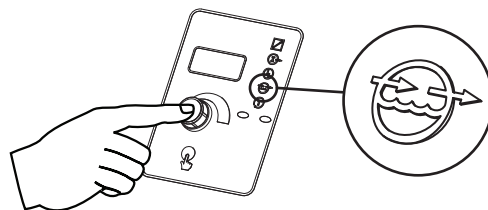
Fill the power supply with coolant

The system will take 14.2 liters to 17.0 liters (3.75 to 4.5 gallons) of coolant depending on the length of the torch leads.

1. Add coolant to the power supply until the tank is full.



2. Turn ON the power supply, then press and release the amps selector knob as many times as needed until the flow symbol is selected. The flow rate will be shown in the three digit display. There is a 45 second delay before the system will report a low coolant flow error. If the flow rate has not reached 0.5 gallons per minute (gpm) the system will turn off the pump.



Note: If the coolant tank is full and you still see a low flow rate, make sure the flow meter is installed in the correct orientation. A flow meter installed in the reverse orientation may result in flow measurements about 50% of the actual flow rate.

3. If the system displays an error, turn OFF the power to the system and add coolant to the tank until it is full again. Repeat steps 2 and 3 until no error is displayed.
4. Add coolant to the power supply until the tank is full and replace the filler cap.

