

Hypertherm[®]

RCC Installation

RCC to MAX200[®] /HT2000[®] /HT4001[®]

Field Service Bulletin

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RCC TO MAX200/HT2000/HT4001

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Purpose

This field installation bulletin will enable a technician to install the Remote Current Control (RCC) unit (#073045) to the MAX200 or HT2000 systems, or the Remote Current Control unit (#077020) to the HT4001 system.

General

The Remote Current Control units have two basic components: the remote current thumbwheel module and the RCC control cable (power supply to remote current module). A remote current jumper assembly (#023462) is needed when installing the RCC to the MAX200 and comes with the MAX200 RCC kit (see below).

The control cables must be ordered separately.

Customer Required Tools

- Phillips-head Screwdriver
- Flat-head screwdriver

MAX200 RCC:

Part No.	Description	Qty.
073193	Cont Mdl:MX200 RCC Rmt Curr. Cont.	
073045*	HT2000 Remote Current Control Mdl	1
023462	Remote Current Jumper Assy	1

HT2000 RCC:

Part No.	Description	Qty.
073045*	HT2000 Remote Current Control Mdl	1

HT4001 RCC:

Part No.	Description	Qty.
077020*	HT4001 Remote Current Control Mdl	1


* See page 9 for more complete parts breakdown of 073045 and 077020.

Control Cables:

Part No.	RCC Control Cables for MAX200	Length
023675	Cable: 200 PS/RCC	25 ft
023759	Cable: 200 PS/RCC	38 ft
023676	Cable: 200 PS/RCC	50 ft
023677	Cable: 200 PS/RCC	75 ft
023678	Cable: 200 PS/RCC	100 ft
023679	Cable: 200 PS/RCC	150 ft
023680	Cable: 200 PS/RCC	200 ft

Part No.	RCC Control Cables for HT2000 or HT4001	Length
023871	Cable: HT2000/HT4001 PS/RCC	25 ft
023872	Cable: HT2000/HT4001 PS/RCC	38 ft
023873	Cable: HT2000/HT4001 PS/RCC	50 ft
023874	Cable: HT2000/HT4001 PS/RCC	75 ft
023875	Cable: HT2000/HT4001 PS/RCC	100 ft
023876	Cable: HT2000/HT4001 PS/RCC	150 ft
023877	Cable: HT2000/HT4001 PS/RCC	200 ft

Installation



WARNING - HIGH VOLTAGE!

Power supplies must be disconnected before attempting installation.



Remote Current Control to MAX200

1. With the Phillips-head screwdriver, remove the seven screws holding the MAX200 front panel.
2. Remove the cable connector plugged into the receptacle labeled **REC5** on the **MAX200 Control Board**. (Fig. 1)
3. Plug either connector of the remote current jumper assembly (#023462) into the **REC5** receptacle on the **MAX200 Control Board**. (Fig. 1)
4. Plug the other end of the jumper assembly into the loose connector located near the upper-right side of the **MAX200 Control Board**. On newer units, this connector will be labeled **PL16**. (Fig. 1)

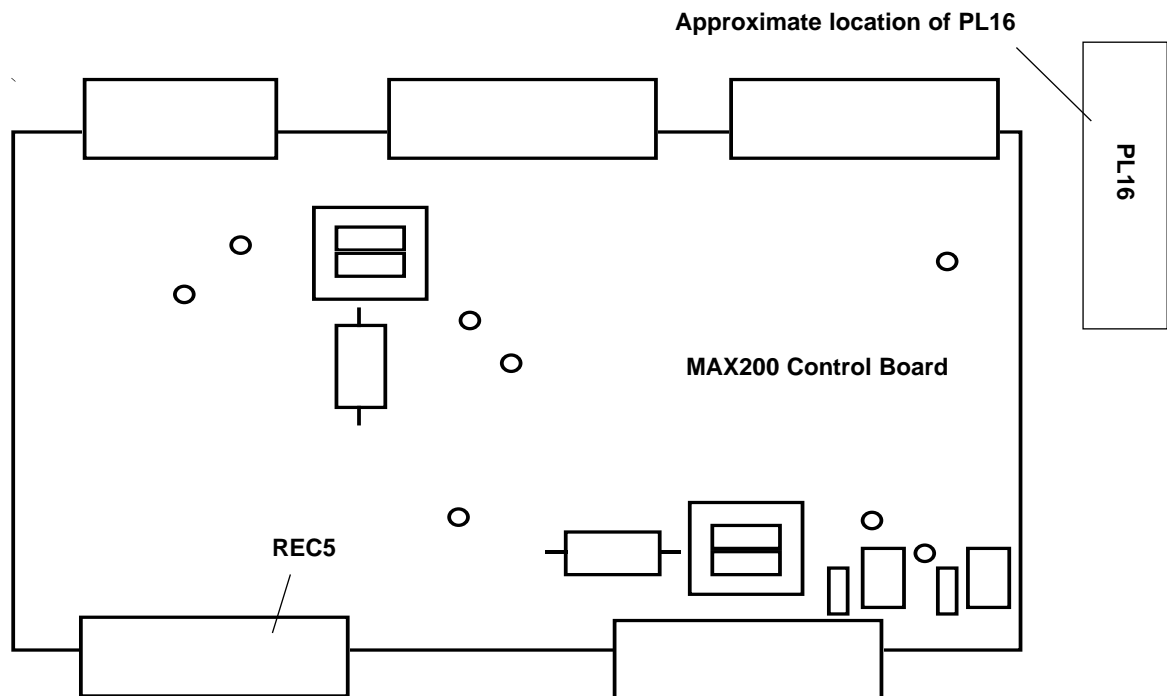


Figure 1 MAX200 Control Board

Remote Current Control to MAX200 (Cont.)

5. Replace and secure the MAX200 front panel with the seven screws.
6. Plug the smaller end of the RCC control cable to the receptacle labeled **15X1** on the rear of the remote current control module.
7. Plug the larger end of the RCC control cable to the receptacle labeled **REMOTE 1X4** on the rear of the MAX200 power supply.

Remote Current Control to HT2000

1. Plug the smaller end of the RCC control cable to the receptacle labeled **15X1** on the rear of the remote current control module.
2. Plug the larger end of the RCC control cable to the receptacle labeled **MACHINE V/C 1X7** on the rear of the HT2000 power supply.

Remote Current Control to HT4001

1. Plug the smaller end of the RCC control cable to the receptacle labeled **15X1** on the rear of the remote current control module.
2. Plug the larger end of the RCC control cable to the receptacle labeled **MACHINE INTERFACE V/C 1X7** on the rear of the HT4001 power supply.

OPERATION

1. Follow procedures outlined in the **Operation** sections of the MAX200, HT2000 or HT4001 instruction manuals to prepare the MAX200, HT2000 or HT4001 for cutting.
2. Set the desired current using the thumbwheel switch on the remote current control module. Refer to the *Cut Chart* data in the **Operation** sections of the MAX200, HT2000 or HT4001 instruction manuals for current settings on the type and thickness of material you are cutting.

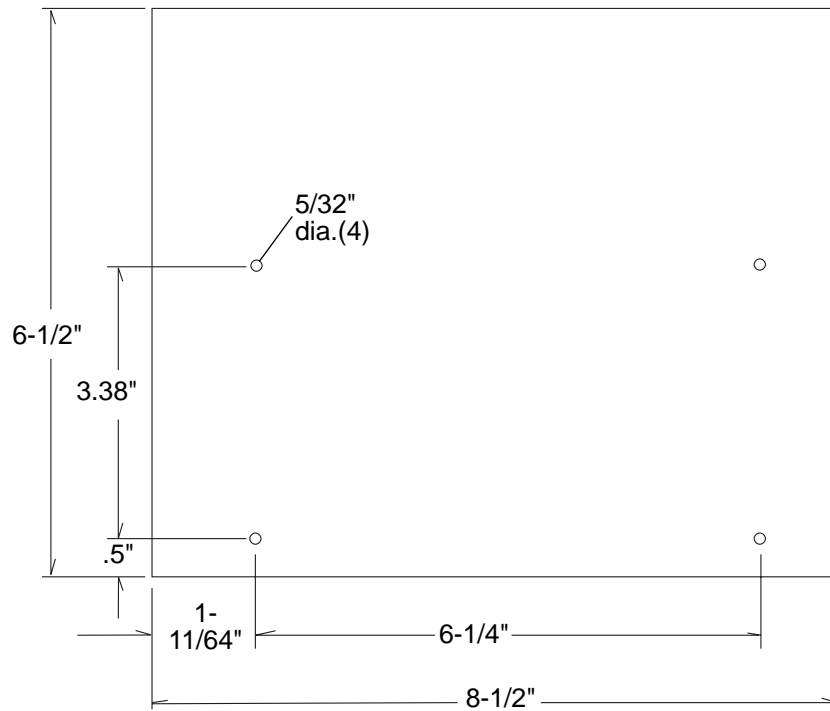
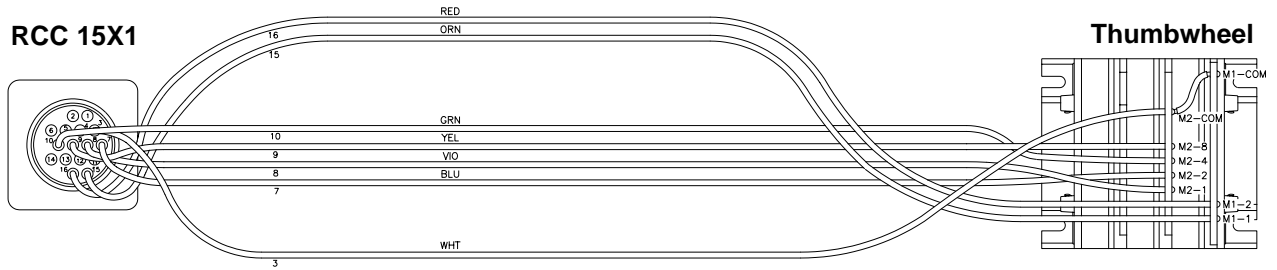
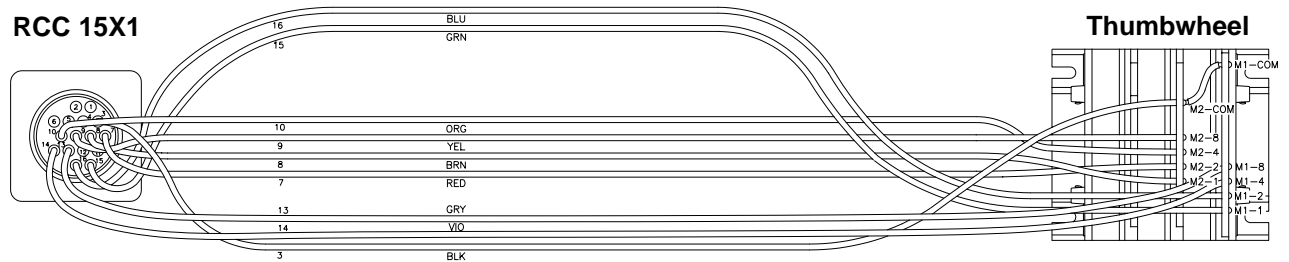


Figure 2 Remote Current Control - Mounting Dimensions



From RCC 15X1Pin	To Thumbwheel
3	M2-Com to M1-Com
7	M2-2
8	M2-1
9	M2-8
10	M2-4
15	M1-1
16	M1-2

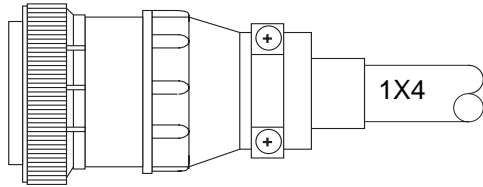
Figure 3 Thumbwheel Switch Assembly w/073045 - MAX200/HT2000



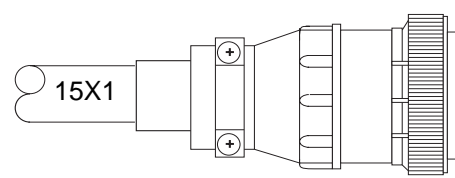
From RCC 15X1Pin	To Thumbwheel
3	M2-Com to M1 Com
7	M2-2
8	M2-1
9	M2-8
10	M2-4
13	M1-8
14	M1-4
15	M1-1
16	M1-2

Figure 4 Thumbwheel Switch Assembly w/077020 - HT4001

MAX200 Power Supply (PS) End



Remote Current Control (RCC) End

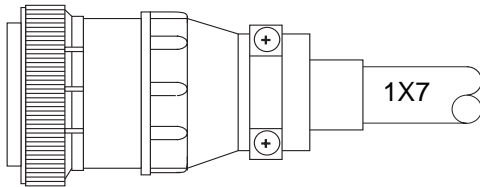


Cable Legend - PS to RCC		
PS 1X4 Pin	RCC 15X1 Socket	Current Signal (I)
6	3	I-Com
15	8	I-10
9	7	I-20
8	10	I-40
4	9	I-80
36	15	I-100
35	16	I-200

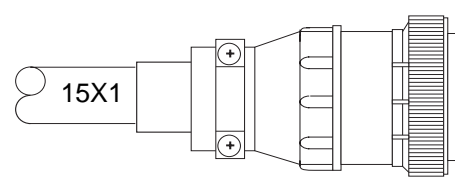
Part No.	Length	Part No.	Length
023675	25 ft (7.6 m)	023678	100 ft (30.5 m)
023759	38 ft (11.6 m)	023679	150 ft (46 m)
023676	50 ft (15 m)	023680	200 ft (61 m)
023677	75 ft (23 m)		

Figure 5 RCC Control Cable - MAX200 Power Supply to Remote Current Control

HT2000/HT4001 Power Supply (PS) End



Remote Current Control (RCC) End



Cable Legend - PS to RCC		
PS 1X7 Pin	RCC 15X1 Socket	Current Signal (I)
2	8	I-10
3	7	I-20
4	10	I-40
5	9	I-80
6	15	I-100
7	16	I-200
8	14	I-400
9	13	I-800
11	3	I-Com

Part No.	Length	Part No.	Length
023871	25 ft (7.6 m)	023875	100 ft (30.5 m)
023872	38 ft (11.6 m)	023876	150 ft (46 m)
023873	50 ft (15 m)	023877	200 ft (61 m)
023874	75 ft (23 m)		

Figure 6 RCC Control Cable - HT2000 or HT4001 Power Supply to Remote Current Control

REMOTE CURRENT CONTROL MODULE - MAX200/HT2000

Part Number	Description	Qty.
073045	Remote Current Control - MAX200/HT2000	
001068	Encl:DCC/PCC/MAX200 RCC RCVR	1
001339	Pnl:MAX200 RCC Front	1
001340	Pnl:MAX200 RCC Rear	1
005123	Thumbwheel Sw:MAX200	1
008176	Pin:24-20 AWG Type III + CRP	7
008193	Rcpt Shell:CPC 17-16 Std Sex	1

REMOTE CURRENT CONTROL MODULE - HT4001

Part Number	Description	Qty.
077020	Remote Current Control - HT4001	
001068	Encl:DCC/PCC/MAX200 RCC RCVR	1
001339	Pnl:MAX200 RCC Front	1
001340	Pnl:MAX200 RCC Rear	1
005152	Thumbwheel Sw:790A	1
008176	Pin:24-20 AWG Type III + CRP	9
008193	Rcpt Shell:CPC 17-16 Std Sex	1