

command THCTM

**Motor Drive Board & Firmware
Field Change**

Kit: 128283

**Field Service Bulletin
IM-314
(P/N 803140)**

Revision 1 June, 1998

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COMMAND THC FIELD CHANGE

PURPOSE

This field service bulletin provides information to make the following changes at the THC Control Module in order to provide adjustable arc voltage control response.

- Remove and replace the motor drive board.
- Remove and replace the firmware on the control board
- Affix new label located on the inside cover.

TOOLS REQUIRED

- Flat blade screwdriver
- # 2 Phillips head screwdriver
- Nut driver 3/16 inch

FIELD CHANGE KIT (128283)

<u>Part No.</u>	<u>Description/Quantity</u>
041511	PC BD Assy, Motor Drive
081029	Firmware, Real-Time Microprocessor, U48
081030	Firmware, Interface Microprocessor, U36
110153	Label, Inside Cover
803140	Field Service Bulletin, Command THC Motor Drive board & Firmware Field Change
802510	Instruction Manual, Command Robotic THC System
802780	Instruction Manual, Command X-Y Table THC System

PROCEDURE



WARNING

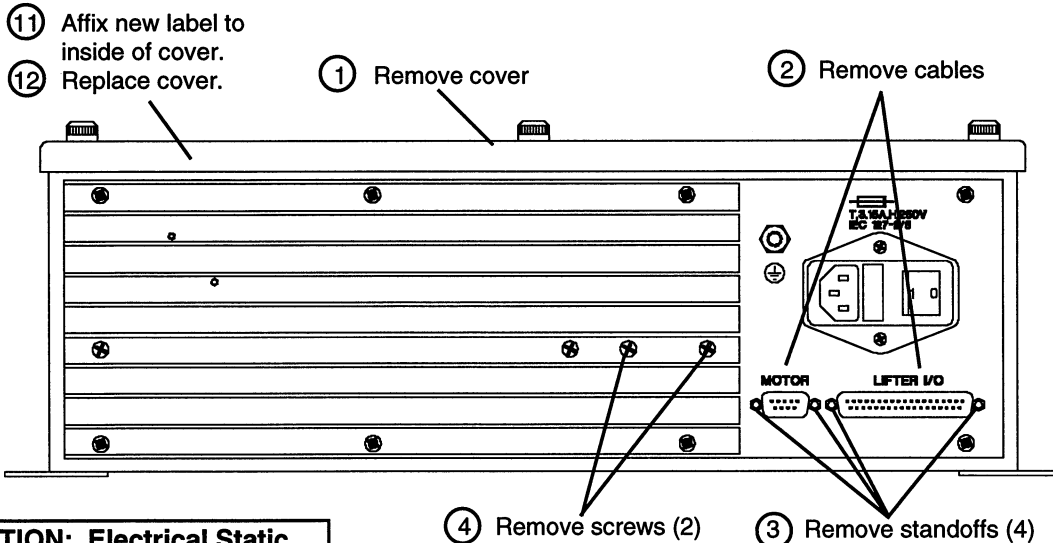
Always set the THC control module power switch to O (Off) and disconnect power cord before removing the cover to make field changes. Be aware that dangerous voltages exist within the unit, if power is not removed, that can cause injury or death.



CAUTION: Electrical Static Discharge! Before removing and replacing new firmware at the control board, ground yourself to a chassis (bare metal) to reduce the chance of electrical static discharge damaging the firmware.

- Read the WARNING and CAUTION above.
- Perform the instructions sequentially by referring to the figures on the following pages.

COMMAND THC FIELD CHANGE



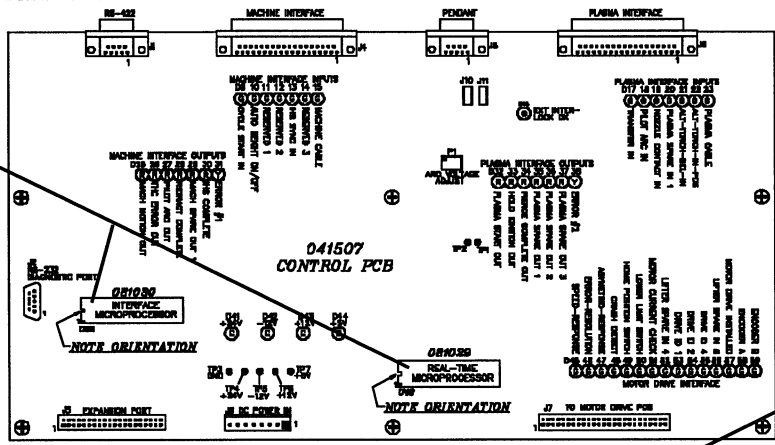
CAUTION: Electrical Static Discharge can damaging the firmware! Ground yourself before handling.

⑨ Remove firmware

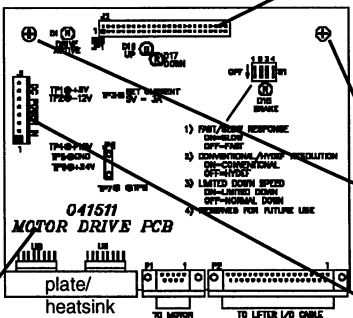
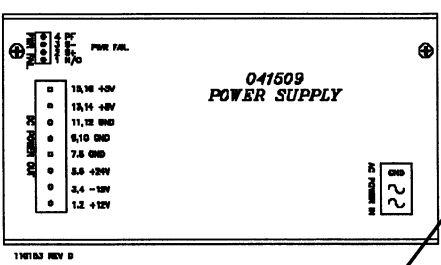
- Apply light finger pressure to top of IC while alternately releasing lock at each end.
- Remove IC.

⑩ Replace firmware

- Orient IC (dot) with receptacle (pin 1).
- Insert IC pins in holes on one side of receptacle.
- Apply light pressure to side of IC while pushing in remaining pins.



⑤ Remove ribbon cable



⑦ Remove screws (2)

⑥ Remove connector J1

⑧ Remove board. Replace board by reversing steps 8 through 2. Note: Before replacing board, ensure there is enough thermal grease on the plate where it meets the heatsink. The grease should cover the plate. If more grease is needed, remove some of the grease from the removed board.