

## **Programming Instructions**

### **Required Components**

- SPD-2000 Module
- P/N: 34T44010 PC Programming Harness
- SPD-2000 Windows application

(Windows 7 OS or newer)

#### Setup/Installation

• Download and install the SPD2 programming application from Muncie Power's website:

https://www.munciepower.com/spd-2000

• Locate the programming harness and plug the USB port to the computer. Connect the 4-pin connector to the SPD-2000 module.

### **Reading Module**

Pending the module has been previously programmed, settings can be imported into the application using the steps below:

- · Launch SPD-2000 programming application
- Click on File -> select Read Module.
- A status window will indicate if the settings have been successfully imported.



PC Int	erface Port
Pin	Function
1	3.3 V RX
2	3.3 V TX
3	+5 V
4	Ground

💀 Reading Device — 🗆 🗙	🛃 SPD Programmer		- 🗆 ×
Reading Device Successful!	File Read Module Check 008 Type Program Module Update Firmware Est Est	~	
Close Cancel	Mode Of Operation SPD MPH	~ Read CAN Data	Disable ~
Click To Show Details	Engage Setpoint (Hz) 100	÷	
	Disengage Setpoint (Hz)	Reengage Setpoint (Hz)	0 *
	Factory Parameters		
	Enable Configuration Enable	Input #1 Action	RPM/Temp Input 🗸
	Input #2 Action MPH Input	Input #3 Action	Config Mode 🗸 🗸
	Input #4 Action Latch Off M	ode  V Input #5 Action	Interlock 🗸
	Input #4 Mode GND Trigge	red  V Output #2 Action	Fault Status
	PWM Threshold 20	÷	

MUNCIE SPD-2000

SYSTEM PROTECTION DEVICE

# Programming Module – Module connected to chassis via SEIC, Allison TCM, or Tail Shaft Sensor.

Using the following steps, the module can be programmed from a computer. This can be done after reading settings from a manually programmed module or to program a module to be used with OBD II inputs.

- A. Launch SPD-2000 application
- B. Locate Preset Factory Mode field, select SPD Mode.
- C. Locate **Mode of Operations Field**, select **SPD RPM** or **SPD MPH** depending on the desired input.
  - For RPM mode set the Engage and Disengage Setpoints (Note that these values do not correspond to the actual engine RPM of the vehicle, but the signal frequency output from the chassis).
  - For MPH mode set the **Disengage** and **Reengage Setpoints** (Note that these values do not correspond to the MPH of the vehicle but the signal frequency output from the chassis at the desired MPH).
- D. To program, select File -> select Program Module
- E. A status window will indicate progress and if the module was successfully programmed.

# Programming Module – Module connected to chassis via OBD II port

This feature is setup during the **Programming Module** process.

- Select the style of **OBD II** by selecting **OBD II** or **OBD II Extended** in the **Read CAN Data Menu** (Contact chassis manufacture for details on which mode is used on their vehicles).
- For **RPM Mode** set the **Engage** and **Disengage Setpoints** at the desired RPM (These values are sent directly by the chassis OBD II and will be the actual RPM not a frequency).
- For **MPH Mode** set the **Disengage** and **Reengage** at the desired MPH (These values are sent directly by the chassis OBD II and will be the actual MPH not a frequency).

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Preset Factory Mode	SPD Mode	~				
Configuration Paramet	ers					
Mode Of Operation	SPD RPM	~	Read CAN Data	Disable	~	
Engage Setpoint (Hz)	SPD RPM SPD MPH					
Disengage Setpoint (Hz)	0		Reengage Setpoint (Hz)	0	*	
Factory Parameters						
Enable Configuration	Enable		Input #1 Action	RPM/Temp Input		
Input #2 Action	MPH Input		Input #3 Action	Config Mode		
Input #4 Action	Latch Utt Mode		Input #5 Action	Interiock		
PWM Threshold	and higgered	•	Oulput #2 Action	Fault Status		
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SPD Programmer				-		>
File						
Preset Factory Mode	SPD Mode	~				
Configuration Paramet	ers					
Mode Of Operation	SPD RPM	~	Read CAN Data	Disable	~	
Engage Setpoint (Hz)	0			Disable		
Disengage Setpoint (Hz)	0		Reengage Setpoint (Hz)	ODBII Extended	-	
Factory Parameters						
Enable Configuration	Enable		Input #1 Action	RPM/Temp Input		
Input #2 Action	MPH Input		Input #3 Action	Config Mode		
Input #4 Action	Latch Off Mode		Input #5 Action	Interlock		
Input #4 Mode	GND Triggered		Output #2 Action	Fault Status		
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PWM Threshold	20	÷				
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A Member of the Interpump Group

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