

# Dipswitch Reference Chart

## Factory Settings - Rev F Chart

Pellet Appliance	Control Board Number	Revision	Black ESP Setting	Red ESP Setting
P61A-2	3-20-05734	-	00000010	N/A
	3-20-05886	A,B,C	00000110	00001110
		D & UP	11100110	11101110
Advance	3-20-05734	-	00000000	N/A
	3-50-05886	A,B,C	00000100	00001100
		D & UP	10100100	10101100
Accentra	3-20-05374	-	00000000	N/A
	3-20-05886	A,B,C	00000100	00001100
		D & UP	10100100	10101100
Accentra Insert	3-20-05734	-	01100000	N/A
	3-20-05886	A,B,C	01100100	01101100
		D & UP	00100100	00101100
P68 (4RPM)	3-20-05734	-	00000011	N/A
	3-20-05886	A,B,C	00000111	00001111
		D & UP	11000111	11001111
P68 (6RPM)	3-20-05886	A,B,C	00100111	00101111
		D & UP	10100111	10101111
XXV	3-20-05734	-	01100010	N/A
	3-20-05886	A,B,C	01100110	01101110
		D & UP	10000110	10001110
P43	3-20-05886	A,B,C	00000101	00001101
		D & UP	10000101	10001101
P35i	3-20-05886	A,B,C	01100110	01101110
		D & UP	10000110	10001110
P38	3-20-06142	-	10000101	10001101
P61-2/P61 (no igniter)	3-20-05378	-	00000000	N/A
	3-20-05890	-	00000100	00001100
	3-20-06142	-	00000100	00001100
PIN/RS	3-20-05378	-	00000000	N/A
	3-20-05890	-	00000100	00001100
	3-20-06142	-	00000100	00001100
DVC500	3-20-05377	-	00000000	N/A
	3-20-05889	-	00000000	00001000
SuperMag (red/white ESP)	3-20-06142	C & UP	N/A	00001011
PF100 (6RPM) Fin Igniter	3-20-05376	-	00000000	N/A
	3-20-05888	A	01000100	01001100
		B & UP	10100100	10101100
PF100 (10RPM) Pressure Ignition	3-20-05888	B & UP	01100100	01101100
PC45 - UL Feeder Small hole for corn & large hole for pellet	3-20-05887	-	10000111	10001111
PC45 Corn small hole pot - small inlet	3-20-05375	A,B	00000100	N/A
		C	00100111	N/A
	3-20-05887	-	01000111	01001111

Pellet Appliance	Control Board Number	Revision	Black ESP Setting	Red ESP Setting
<b>PC45</b> Pellet large hole - large inlet	3-20-05375	A,B	11100100	N/A
		C	11100100	N/A
	3-20-05887	-	11000111	1101111
<b>PB105 (6RPM)</b> Fin Igniter	3-20-05630	-	01000000	N/A
	3-20-06143	A,B,C	00000100	00001100
		D & UP	00000000	00001000
<b>PB105 (10RPM)</b> Pressure Ignition	3-20-06143	C	01100110	01101110
		D & UP	01100010	01101010***
<b>HF60 (6RPM)</b> Pressure Ignition	3-20-06143	B,C	00000101	00001101
		D & UP	00000001	00001001***
*** <b>PB105 &amp; HF60</b> - Turn on DIPSWITCH 6 to lower dump zone temperature for high altitude or atmospheric kit. See owner's manual				
230V <b>Accentra</b>	3-20-05380	-	00000101	00001101
	3-20-05892	-	00000101	00001101
230V <b>Accentra Insert</b>	3-20-05380	-	00000101	00001101
	3-20-05892	-	00000101	00001101
230V <b>XXV</b>	3-20-05380	-	00000101	00001101
	3-20-05892	-	00000101	00001101
230V <b>Advance</b>	3-20-05380	-	00000101	00001101
	3-20-05892	-	00000101	00001101

### Legend:

1. **0** = OFF    **1** = ON    Shown in order from DIP switch 1 to 8.

2. **DIPSWITCH 1, 2 and 3** = Ignition Feed Time Offset Adjustment for US and Europe (quantity of pellets augured into the burn pot on start-up)

<b>DIPSWITCH 1,2,3</b>	<b>Offset time 60Hz</b>	<b>Euro-50Hz</b>
on, on, on ( <b>111</b> )	+85 seconds	+102 seconds
on, on, off ( <b>110</b> )	+64 seconds	+77 seconds
on, off, on ( <b>101</b> )	+43 seconds	+51 seconds
on, off, off ( <b>100</b> )	+21 seconds	+26 seconds
off, off, off ( <b>000</b> )	+0 seconds	+0 seconds
off, off, on ( <b>001</b> )	-21 seconds	-26 seconds
off, on, off ( <b>010</b> )	-43 seconds	-51 seconds
off, on, on ( <b>011</b> )	-64 seconds	-77 seconds

3. **DIPSWITCH 4** = Power failure shutdown when using UPS/battery back-up **0** = Quick Shut Down **1** = Continue Operation  
Note: Power failure shutdown is available on boards: 3-20-05886E, 3-20-05887B, 3-20-05888C, 3-20-05892F, 3-20-06142E, 3-20-06143D, or newer

4. **DIPSWITCH 5** = ESP identification: Red vs. Black **0** = Black **1** = Red (to be "OFF" with any color other than RED)

5. **DIPSWITCH 6, Boilers** = When using Atmospheric Kit, or high altitude installation **1** = ON should adjusted

**DIPSWITCH 6, Pellet Stoves and Inserts** = Room sensor differential **1** = ON reduces the differential by 1 degree F (Recommended)

6. **DIPSWITCH 7,8** = Set the MAX ESP temperature for specific models using the Dipswitch Reference Chart.

**Notes**

1. Always refer to the owner’s manual.
2. Ensure all Dipswitch settings are correct for the unit being installed or board being replaced.
3. Depending on stove configuration (such as Rev of pusher arm, RPM of feed motor, or size of gears in chain drives) ignition feed time may need adjusted.

Adjustment: Run the stove or insert through normal ignition and allow stove to cool. Without disturbing the burn-pot, start a new ignition cycle.

Important: Normal re-ignition is required to ensure filling of burn-pot with pellets and ash is consistent.

- If there is excessive smoke within the first 6 to 10 minutes, the ignition feed may need reduced.
- If there is no smoke and takes longer than 10 minutes for ignition, the ignition feed may need increased.
- Use Dipswitch 1, 2 and 3 to adjust ignition feed.
- Always take note of existing setting before increasing or decreasing ignition feed.

4. Fin Igniters: Initial feed should allow pellets to cover the holes above the igniter.
5. Excessive pellets(over feeding) cause extra smoke during ignition.
6. Different pellets may change the amount of smoke seen within the stove or insert during ignition.

Control Board Part #	Where Used	Revision / Release Date
3-20-05888D	PF100, BA100, BIO120, PF120	July 2013
3-20-06143D	PB105, BH105, PB105-International, HF60, BH60, HF60-International	December 2010
3-20-05887B	PC45 Pellet/Corn Stove	
3-20-06142E	P61, P38 (without automatic ignition), Super Magnum Sto	
3-20-05886E	Freestanding Pellet Stoves (New Settings)	October 2010
3-20-05889A	DVC500	May 2008

# Dipswitch Reference Chart - Factory Settings (cont'd)

## Rev F Chart

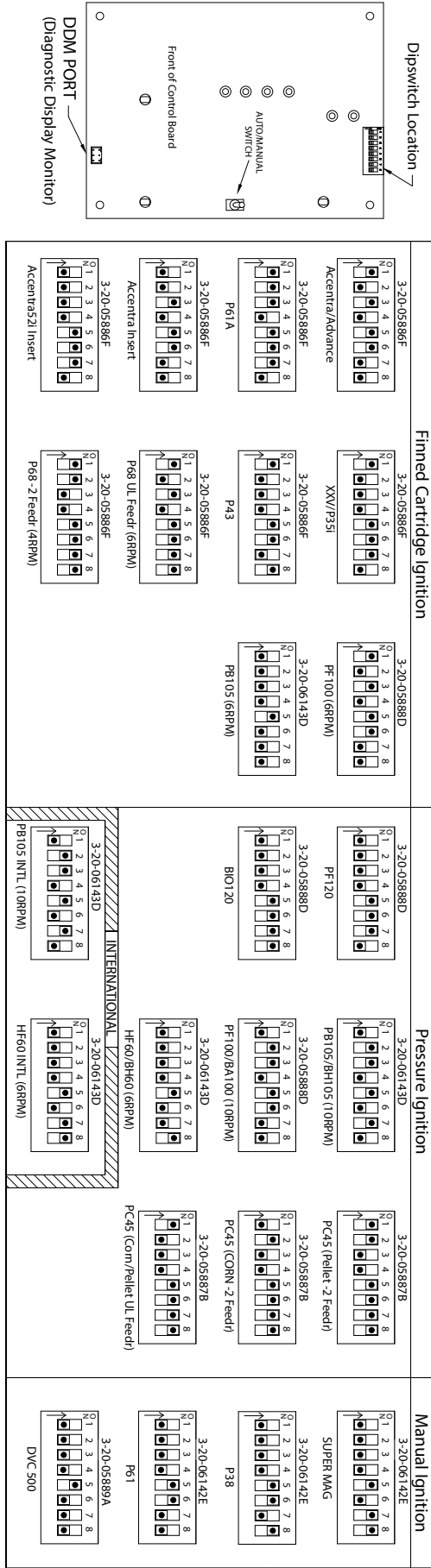
### Hearth & Home Technologies

Microprocessor Control Board  
Dipswitch settings  
For 120VAC 60 Hz

UPDATED June 01, 2016  
PART # 3-89-677402

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CONTROL BOARD PART #	WHERE USED	REVISION RELEASE DATE
3-20-05886F	Pellet Stoves: Adds 2 blink status for pressure switch.	June 2016
3-20-05887B	PC 45 corn/pellet stove	Dec. 2010
3-20-05888D	PF 100, BA 100, BIO120 PF120 (hot air furnace)	July 2013
3-20-05889A	DVC direct vent coal stoker	May 2008
3-20-06142E	P61 manual, Super-Mag Stoker, P38	Dec. 2010
3-20-06143D	PB105, BH105, PB105 INTL, HF60, BH60, HF60 INTL (boilers)	Dec. 2010



**Dipswitch 1,2,3**

on,on,on = program +85 sec.  
on,on,off = program +64 sec.  
on,off,on = program +43 sec.  
on,off,off = program +21 sec.  
off,off,on = program default  
off,off,off = program -21 sec.  
off,on,off = program -43 sec.  
off,on,on = program -64 sec.

**NOTE: A connected DDM ( Diagnostic Display Monitor) on power up will show an OFF as 0, and an ON as 1.**

Dipswitch # 1,2,3 control the ignition cycle "charge" ( quantity of pellets augered into the burn pot on startup ) \*

Dipswitch # 4 factory set OFF for power failure shutdown with in line (short term battery back-up, UPS) \*

Dipswitch # 5 is for ESP type. This switch will need to be OFF with any ESP other than RED.

Dipswitch # 6 is for Room Sensor Differential. "ON" reduces the Diff. by 1 deg. F.

Dipswitch # 6 is for BOILERS. "ON" when using atmospheric kit or high altitude installation. \*

Dipswitch # 7,8 set the MAX ESP temperature for specific models. ( Set as shown above.)

( NOTE: Be sure that all of these switch settings are set for the unit in which they are being installed ) \* see owners manual