

Dipswitch Reference Chart Factory Settings

Pellet Appliance	Control Board Number	Revision	Black ESP Settings	Red ESP Settings
P61A-2	3-20-05374	-	00000010	n/a
	3-20-05886	A,B,C D & UP	00000110 11100110	00001110 11101110
Advance	3-20-05374	-	00000000	n/a
	3-20-05886	A,B,C D & UP	00000100 10100100	00001100 10101100
Accentra	3-20-05374	-	00000000	n/a
	3-20-05886	A,B,C D & UP	00000100 10100100	00001100 10101100
Accentra Insert	3-20-05374	-	01100000	n/a
	3-20-05886	A,B,C D & UP	01100100 00100100	01101100 00101100
P68 (4RPM)	3-20-05374	-	00000011	n/a
	3-20-05886	A,B,C D & UP	00000111 11000111	00001111 11001111
P68 (6RPM)	3-20-05886	A,B,C D & UP	00100111 10100111	00101111 10101111
	3-20-05374	-	01100010	n/a
XXV	3-20-05886	A,B,C D & UP	01100110 10000110	01101110 10001110
	3-20-05886	A,B,C D & UP	00000101 10000101	00001101 10001101
P43	3-20-05886	A,B,C D & UP	01100110 10000110	01101110 10001110
	3-20-05886	A,B,C D & UP	00000101 10000101	00001101 10001101
P35i	3-20-05886	A,B,C D & UP	01100110 10000110	01101110 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
DVC 500	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 B & UP	01000100 10100100	01001100 10101100
PF100 (10RPM) Pressure Igniter	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 C	00000100 00100111	n/a n/a
	3-20-05887	-	01000111	01001111
PC45 Pellet large hole – large inlet	3-20-05375	A,B C	11100100 11100100	n/a n/a
	3-20-05887	-	11000111	11001111
PB105 (6 RPM) Fin Igniter	3-20-05630	-	01000000	n/a
	3-20-06143	A,B,C D & UP	00000100 00000000	00001100 00001000
PB105 - (10 RPM) Pressure Igniter	3-20-06143	C D & UP	01100110 01100010	01101110 01101010***
	3-20-06143	B,C D & UP	00000101 00000001	00001101 00001001***

*** PB105 & HF60 - Turn on DIPSWITCH 6 to lower dump zone temperature for high altitude or atmospheric kit. See owner's manual

Pellet Appliance	Control Board Number	Revision	Black ESP Settings	Red ESP Settings
230V Accentra	3-20-05380	-	00000101	00001101
	3-20-05892	-	00000101	00001101
230V Accentra Insert	3-20-05380	-	00000101	00001101
	3-20-05892	-	00000101	00001101
230V XXV	3-20-05380	-	00000101	00001101
	3-20-05892	-	00000101	00001101
230V Advance	3-20-05380	-	00000101	00001101
	3-20-05892	-	00000101	00001101

Legend:

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

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

- 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
- DIPSWITCH 5 = ESP identification: Red vs. Black** **0 = Black 1 = Red** (to be "OFF" with any color other than RED)
- 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)
- DIPSWITCH 7,8 =** Set the MAX ESP temperature for specific models using the Dipswitch Reference Chart

Notes

- Always refer to the owner's manual.
- Ensure all Dipswitch settings are correct for the unit being installed or board being replaced.
- 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.
- Fin Igniters: Initial feed should allow pellets to cover the holes above the igniter.
- Excessive pellets(over feeding) cause extra smoke during ignition.
- Different pellets may change the amount of smoke seen within the stove or insert during ignition.

Control Board Revision Chart

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 Stoker	
3-20-05886E	Freestanding Pellet Stoves (New Settings)	October 2010
3-20-05889A	DVC500	May 2008

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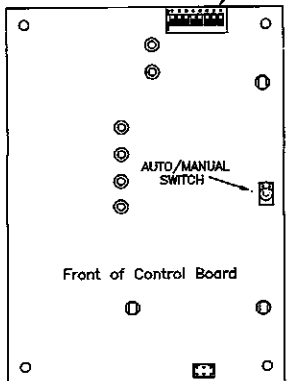
Microprocessor Control Board
Dipswitch settings
For 120VAC 60 Hz

UPDATED July 22, 2014
PART # 3-89-677402

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CONTROL BOARD PART #	WHERE USED	REVISION RELEASE DATE
3-20-05886E	Freestanding Pellet Stoves<--NEW SETTINGS	October 2010
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 Location



DDM PORT
(Diagnostic Display Monitor)

Finned Cartridge Ignition			Pressure Ignition			Manual Ignition
<p>3-20-05886E Accentra/Advance</p> <p>3-20-05886E P61A</p> <p>3-20-05886E Acc Insert</p> <p>3-20-05886E ACC52I</p>	<p>3-20-05886E XXV/P35I</p> <p>3-20-05886E P43</p> <p>3-20-05886E P68 UL Feedr (6RPM)</p> <p>3-20-05886E P68 -2 Feedr (4RPM)</p>	<p>3-20-05888D PF100 (6RPM)</p> <p>3-20-06143D PB105 (6RPM)</p>	<p>3-20-05888D PF120</p> <p>3-20-05888D BIO120</p>	<p>3-20-06143D PB105/BH105 (10RPM)</p> <p>3-20-05888D PF100/BA100 (10RPM)</p> <p>3-20-06143D HF60/BH60 (6RPM)</p> <p>INTERNATIONAL 3-20-06143D PB105 INTL (10RPM)</p> <p>3-20-06143D HF60 INTL (6RPM)</p>	<p>3-20-05887B PC45 (Pellet -2 Feedr)</p> <p>3-20-05887B PC45 (CORN -2 Feedr)</p> <p>3-20-05887B PC45 (Corn/Pellet UL Feedr)</p>	<p>3-20-06142E SUPER MAG</p> <p>3-20-06142E P38</p> <p>3-20-06142E P61</p> <p>3-20-05889A DVC 500</p>

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,off = program default
off,off,on = 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 atmospheeric 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

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