

PLEASE KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE



DEXEN USER MANUAL



ATTENTION !



If the remote included with your fireplace looks like the picture above, please refer to this supplemental user manual for operating instructions only. For installation and all other instructions refer to the supplied fireplace Owner's Manual.

GENERAL INFORMATION

SYSTEM DESCRIPTION

The Dexen 8K1N System consists of three (3) elements:

1. Remote Control.
2. 8K1N Ignition Control Module
3. AUX300 Auxiliary Control Module

The Dexen remote is grey in colour with an orange backlit LCD screen. It is designed to the control pilot light, flame height, blower speed and accent lighting (if equipped) of your gas fireplace. The remote also has a thermostat function which can automatically regulate the temperature in the room in which it is installed.

TECHNICAL DATA

Remote Control

Supply Voltage: 4.5VDC (3 x 1.5V AAA Batteries)

8K Ignition Control Module

Supply Voltage: 6VDC (via 120VAC power adaptor)

Battery Backup Supply Voltage: 6VDC (4 x 1.5V AA Batteries)

AUX300 Auxiliary Control Module

Supply Voltage: 120VAC / 60HZ

AUX1 Output Voltage: High - Line Voltage (LV), Medium - 83% LV, Low - 70% LV

AUX2 Output Voltage: Line Voltage (LV)

REMOTE LOCATION

Determine the location for the remote control. The selected location should be in the same space as the gas fireplace. Never place this unit in a separate room. The remote control must be placed within 30 feet (9.14 m) of the fireplace but should not be exposed to extreme heat.

- The remote is approved for interior installation and should not be used in exterior applications.
- Keep remote control out of reach of children.

WARNING: Fire Hazard. Can cause severe injury or death. The remote causes ignition of the appliance. The appliance can turn on suddenly. Keep away from the appliance burner when operating the remote system.

WARNING: Shock Hazard. Can cause severe injury or death. This device is powered by line voltage. Do not try to repair this device. In no way is the enclosure to be tampered with or opened. Disconnect from line voltage before performing any maintenance.

CAUTION: Property Damage Hazard. Excessive heat can cause property damage. The appliance can stay lit for many hours. Turn off the appliance if it is not going to be attended for any length of time. Always place the remote where children cannot reach it.

GENERAL INFORMATION

TEMPERATURE INDICATION DISPLAY

To change the temperature display between Celsius and Fahrenheit, remove the battery cover from the back of the remote control and slide the switch to your desired temperature unit (see Figure 1). The screen will automatically change the units on the room temperature and set temperature portion.



Figure 1: Temperature Unit Switch

INSTALLATION OF REMOTE CONTROL HOUSING (OPTIONAL)

Included with your fireplace is a white remote control housing that can be mounted on the wall for a clean remote control storage solution. The remote control power button is still accessible for ease of use when stowed in the housing (see Figure 4).

1. Secure the remote control housing on a flat wall surface (see Figure 2).
2. Place remote control inside housing (see Figure 3).
3. Close the housing door (see Figure 4).



Figure 2: Mounting Remote Control Housing



Figure 3: Remote in Housing - Open



Figure 4: Remote in Housing - Closed

GENERAL INFORMATION

INITIALIZING THE SYSTEM FOR THE FIRST TIME

CAUTION! Risk of burns! DO NOT program the remote control to the control module when fireplace is hot.

- Remove battery cover from the back of the remote by sliding it down and install the 3 AAA batteries supplied.
- Verify the ON/OFF/REMOTE switch is in the REMOTE position. Green LED light will blink three times and wall switch will beep once 5 seconds later when ready (see Figure 5).
- Using a small item (such as a paper clip) press and release the LEARN button located near the ON/OFF/REMOTE switch (see Figure 5).
- Control module will beep once and LED will blink green for 10 seconds.
- While the LED is blinking, press the POWER button on the remote control. A double beep will come out of the control module to indicate that it has been programmed successfully.

To clear memory in the control module, use a small item (such as a paper clip) to press and release the LEARN button. Control module will beep once and LED will blink green for 10 seconds DO NOT press any buttons on the remote during the ten seconds that the green LED blinks. The memory will be cleared. Note that the remote will not be programmed if it's in STANDBY mode. Press the ON/OFF button twice to switch to IDLE mode.

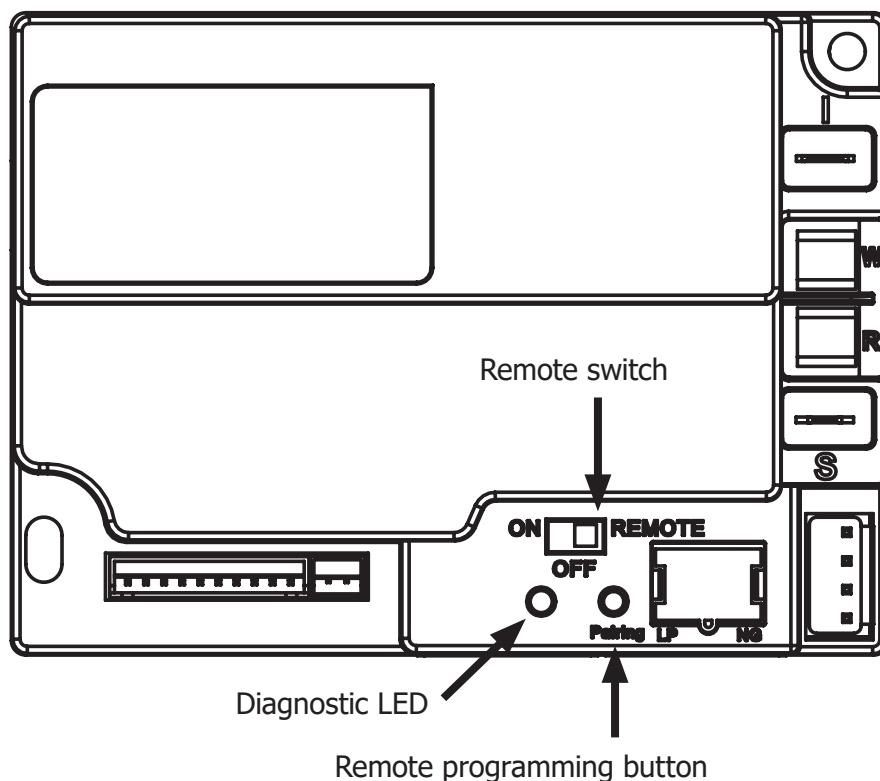


Figure 5: Remote Programming

WIRING SCHEMATIC

Dexen 8K1N - Complete IPI System

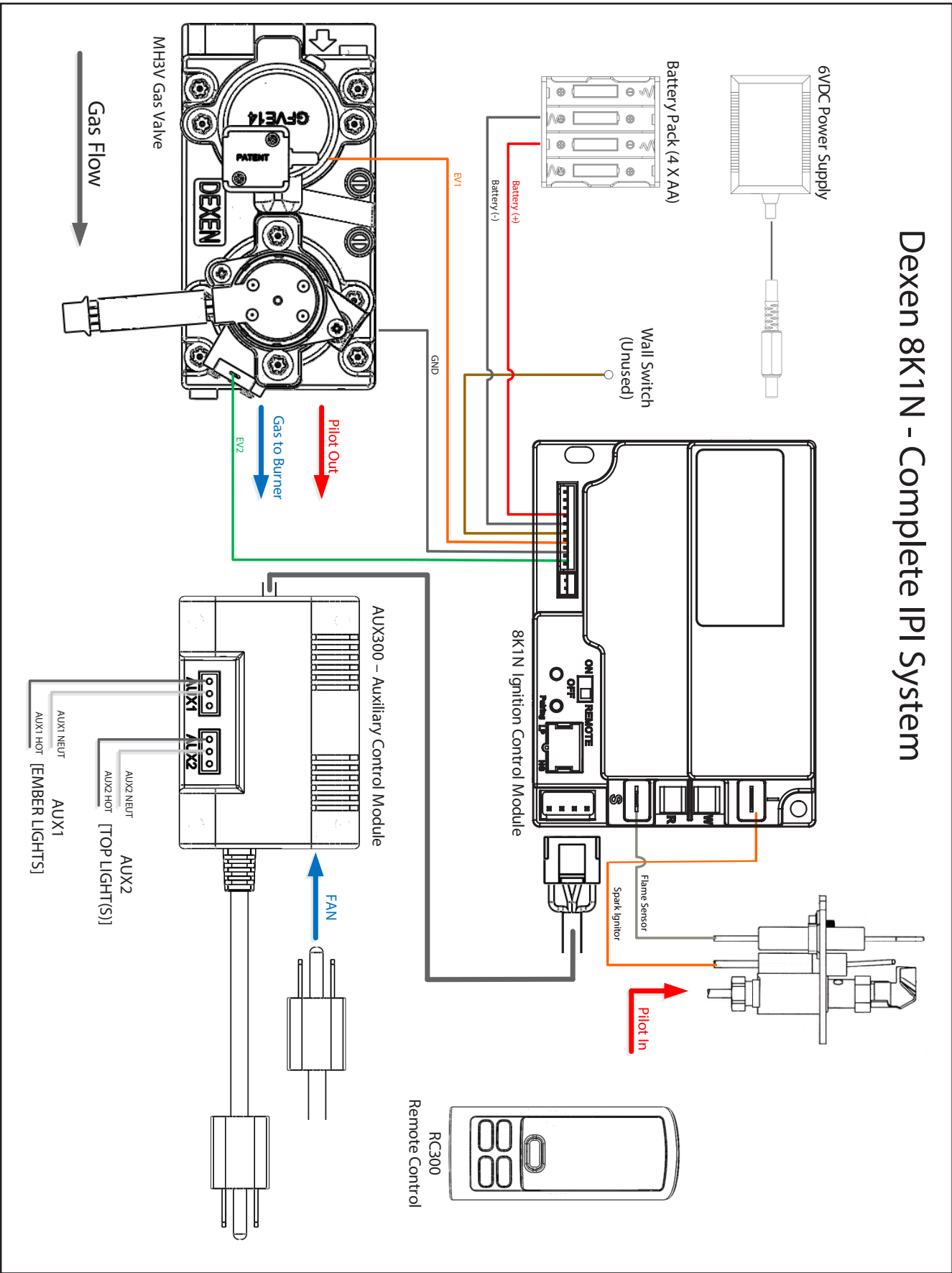


Figure 6: Wiring Schematic

OPERATING INSTRUCTIONS

DISPLAY SCREEN

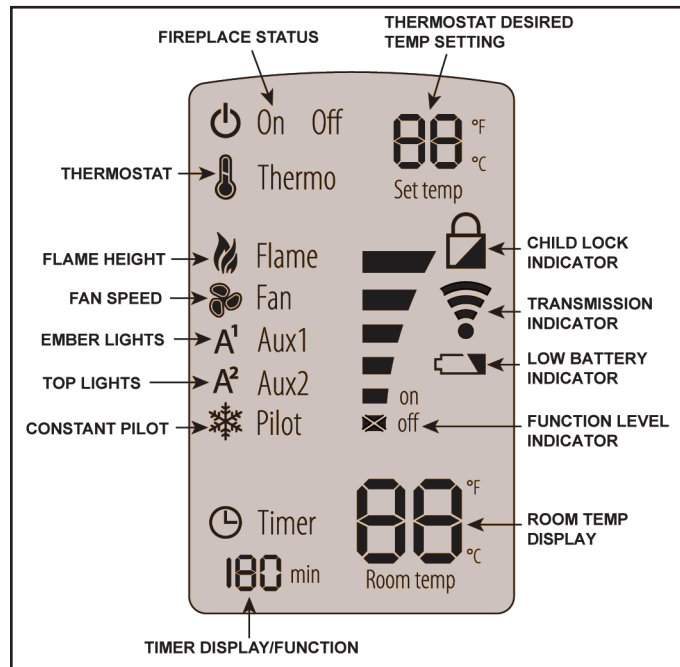


Figure 7: Remote Control Display Screen



Use POWER button to turn the unit on and off.



Use MENU button to display the menu functions. Only functions that can be activated will be displayed.

For example: Flame Height will not be displayed when the remote status is OFF.



Use the SELECT button to select the current feature.



Use the UP and DOWN arrows to toggle through the menu functions and value selections in the sub-menus.



IDLE/STANDBY MODE WHILE IN ON MODE

The remote control will go into an idle mode if no buttons are pressed within 5 seconds (see Figure 8). Press any button to resume full functionality. In idle mode only active functions will show on the screen.

The remote control will go into a standby mode if no buttons are pressed within 5 minutes (see Figure 8). Press the POWER button to reactivate the remote control to ON mode. Active functions will be displayed.

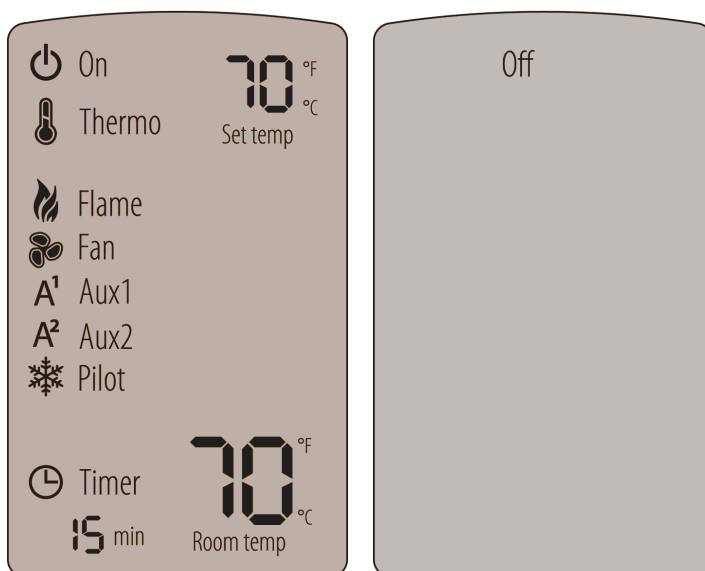


Figure 8: Remote Idle Mode (Left) and Standby Mode (Right)

OPERATING INSTRUCTIONS

ON/OFF MODE

- All functions can be accessed when the remote control is in the ON mode.
- Only active functions will be displayed when the remote control is in the ON mode. For example: if the fan is the only function that's active, the fan icon and flame will be the only icon shown in the display.
- Only the following functions can be accessed in the OFF mode:
 - Ember Lights (AUX1)
 - Top Light(s) (AUX2)
 - Constant Pilot

Note: The Ember Lights and Top Lights are unit dependent. If these options are not included in your unit, the respective auxiliary function can be disregarded.

- Only active functions will be displayed when the remote control is in the OFF mode.

TURNING ON THE FIREPLACE

- Press the **POWER** button to turn the fireplace ON. The fireplace will first ignite the pilot. Once the pilot flame is established the main burner will be lit.

Note: Whenever the fireplace is cycled from OFF to ON, the main burner will light on high for 10 seconds before returning to the previous user setting.

FLAME HEIGHT

- Press the **MENU** button to activate the menu.
- Using the **UP** and **DOWN** arrows highlight the **FLAME** icon and press **SELECT**.
- Use the **UP** and **DOWN** arrows to adjust the **FLAME HEIGHT**, then press **SELECT**. The **FLAME HEIGHT** can be adjusted to 5 different settings.

Note: FLAME HEIGHT will not be adjustable for first ten seconds when fireplace is turned on.

Note: The system will remember the previous FLAME HEIGHT setting and will automatically adjust after 10 seconds.

FAN SPEED

- Press the **MENU** button to activate the menu.
- Using the **UP** and **DOWN** arrows highlight the **FAN** icon and press **SELECT**.
- Use the **UP** and **DOWN** arrows to adjust the **FAN SPEED**, then press **SELECT**. The **FAN SPEED** can be adjusted to 3 different settings: HIGH, MEDIUM, LOW.

Note: The fan is controlled by a timer built into the control module. After the fireplace is turned ON the timer will wait for 3 minutes before turning on the fan. In addition, the fan will remain on for 12 minutes* after the fireplace has been turned OFF.

*Fan operation will stop immediately when the fireplace is turned OFF if the fireplace is in continuous pilot mode (CPI) or has been turned OFF via the control module switch (page 4).

Note: The fan will start up on the high setting for 10 seconds before adjusting to the previous user setting.

OPERATING INSTRUCTIONS

AUX1 - EMBER LIGHTS (IF EQUIPPED)

- Press the **MENU** button to activate the menu.
- Using the **UP** and **DOWN** arrows highlight the **AUX1** icon and press **SELECT**.
- Use the **UP** and **DOWN** arrows to turn on and adjust the brightness of the lights, then press **SELECT**. The lights can be adjusted to 3 different levels: LOW, MEDIUM and HIGH.

AUX2 - TOP LIGHT(S) (IF EQUIPPED)

- Press the **MENU** button to activate the menu.
- Using the **UP** and **DOWN** arrows highlight the **AUX2** icon and press **SELECT**.
- Use the **UP** and **DOWN** arrows to turn the top light(s) ON or OFF, then press **SELECT**.
- **Note:** The system will remember the previous AUX1 and AUX2 setting from the menu. However, when the fireplace is turned OFF both AUX1 and AUX2 will be turned off. AUX and AUX2 can be activated when the flame is off from the remote's OFF mode. When the fireplace is turned back ON the AUX1 and AUX2 settings will be restored to the previous ON setting.

THERMOSTAT

- Press the **MENU** button to activate the menu.
- Using the **UP** and **DOWN** arrows highlight the **THERMO** icon and press **SELECT**.
- Use the **UP** and **DOWN** arrows to turn the **THERMO ON** or **OFF**, then press **SELECT** (the **SET TEMP** will start blinking). Using the **UP** and **DOWN** arrows select the desired temperature and press **SELECT**.

Note: If the THERMO function is on, the SET TEMP can be adjusted at any time by pressing the UP and DOWN arrows. The system requires a two degree Fahrenheit or higher temperature difference between ROOM TEMP and SET TEMP for the fireplace to turn on.

Note: As the ROOM TEMP approaches SET TEMP, the remote system will automatically adjust the flame height. If the ROOM TEMP rises above SET TEMP, the fireplace will shut down the main burner. After this, the fireplace will turn back on after the ROOM TEMP drops below the SET TEMP.

Note: The system will remember the previous TEMPERATURE setting when THERMOSTAT mode is cycled ON or OFF.

Note: If the fireplace has been wired to an ON/OFF wall switch, it **must** be in the OFF position when using the remote in thermostat mode.

BURNER TIMER

- Press the **MENU** button to activate the menu.
- Using the **UP** and **DOWN** arrows highlight the **TIMER** icon and press **SELECT**.
- Use the **UP** and **DOWN** arrows to turn the **TIMER ON** or **OFF**, then press **SELECT**. Using the **UP** and **DOWN** arrows select the desired set time and press **SELECT**. Timer operates in increments of 15, 30, 45, 60, 90, 120 and 180 minutes.

OPERATING INSTRUCTIONS

CONTINUOUS PILOT MODE (CPI)

It is recommended to use the continuous pilot mode (CPI) during the winter when the outside temperature is below 50°F (10°C) to keep the chimney properly heated for updraft during burner ignition. CPI also keeps the firebox warm which eliminates both heat loss to cold air that is trapped inside the firebox as well as excessive exhaust vapour condensation on the door glass.

- Press the **MENU** button to activate the menu.
- Using the **UP** and **DOWN** arrows highlight the **PILOT** (❄️) icon and press **SELECT**.
- Use the **UP** and **DOWN** arrows to activate or deactivate CPI mode, then press **SELECT**.

Note: A beep will come from the control module indicating CPI mode has been activated. A double beep will come from the control module indicating CPI mode has been deactivated.

Note: With CPI activated, the pilot will shut off after 7 consecutive days of main burner inactivity.

SETTING THE CHILD LOCK

- Press and hold the **MENU** and **UP** arrow buttons simultaneously for 4 seconds to enable or disable the child lock feature. No functions will be usable on the remote until child lock is disabled.

BATTERY BACKUP

- If batteries are installed in the fireplace at the time of a power outage, fireplace operation will not be interrupted but fan and auxiliary functions will not be operable until power is restored. The life span of the batteries depends on various factors during a prolonged power outage: quality of the batteries used, the number of ignitions of the appliance, the number of changes to the room thermostat set point etc.
- If batteries are not installed in the fireplace, or are dead, at the time of a power outage the fireplace will shut off. To resume fireplace operation, install new batteries.

Note: Battery polarity must be correct or module damage will occur.

MANUAL FIREPLACE SHUTOFF

In the unlikely event that the remote control malfunctions and will not turn off the fireplace first check the remote screen for the battery level indicator and replace the batteries if low battery is indicated (see figure 7). If batteries are fine call your dealer for service assistance. You may choose one of the following actions to turn off the fireplace:

CAUTION! Risk of burns! Fireplace surfaces are hot when operating and during cool down. Use care and wear gloves when opening the front and accessing components inside the fireplace.

Turn off the control module:

- Fireplaces - Remove the safety screen and surround panel (where applicable) and locate the control module.
Freestanding - Open the lower control panel or remove the rear cover plate and locate the control module.
- Move switch to OFF (see Figure 5).

Turn off power to the fireplace:

Note: This method will only work if the fireplace batteries are not installed

- Locate house circuit breaker for fireplace.
- Turn off the circuit breaker.

FAQ/TROUBLESHOOTING

Table 1: Frequently Asked Questions/Troubleshooting

Problem	Possible Cause	Solution
Remote control will not transmit	Batteries	Verify batteries are functional and installed correctly.
	Remote control is in Child Lock mode	Disengage Child Lock mode.
	Buttons not being pressed firmly	Press button firmly for one to two seconds to ensure transmission to module.
Control module will not take commands from remote control	Control module is not in "REMOTE" mode	Ensure module switch is set to REMOTE.
	Control module and remote control are not programmed to each other	The control module will beep when it successfully receives a command. If it does not beep, clear module memory and reprogram wall switch.
	Control module is unplugged. In case of power outage, backup batteries are depleted or missing.	If the transmission indicator comes on when power button is pressed, verify that the control module is plugged in the fireplace junction box located in the controls area. Also verify that the batteries are installed in the battery pack.
	Control Module is in Lock-Out	If this occurs the red LED on the control module will be flashing in a repeated pattern. Contact your local Enviro dealer for assistance.
Constant pilot turns off	Built in 7-day timer	The pilot will automatically turn off after 7 consecutive days of main burner inactivity
Fan does not turn on when fireplace is started	Built in time delay	The fireplace must run for three minutes in order for the fan to engage.
Fan does not turn off when fireplace turned off	Built in time delay	The fan will run for twelve minutes after the fireplace is turned off.
Fireplace shuts down after extended periods	Built-in timer	The fireplace will automatically shut down after nine hours of continuous operation if it does not receive a command from the remote.
Fireplace is on but will not shut off with the remote control	External wired wall switch	The fireplace cannot be turned off by remote if an external wired switch is installed and in the ON position. Turn external wall switch to OFF.
	Remote control or control module failure	At control module, turn off fireplace by sliding the ON/OFF/REMOTE switch to OFF. Warning! Risk of Burns! Fireplace is hot. Use caution when accessing module.

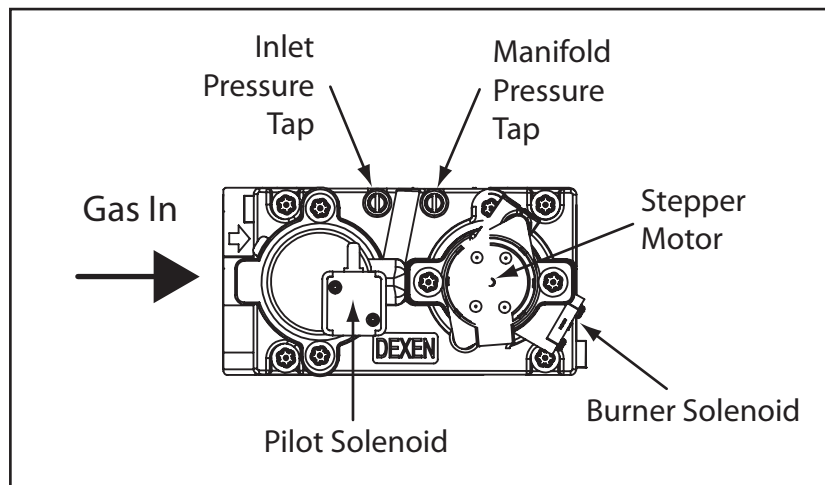


Figure 9: Valve Details

REPLACEMENT PARTS

Table 2: Replacement Part List

Reference #	Part Description	Part #
1	MH3V Gas Valve with Harness	50-4152
2	RC300 Remote	50-4153
3	8K1N Ignition Module	50-4154
-	8K1N Ignition Module - Power Vent	50-4161
4	AUX300 Module	50-4155
5	Battery Holder (Dexen)	50-4156
6	6V Power Adapter (Dexen)	50-4157
7	2 Way Dexen Pilot Assembly	50-4295
-	3 Way Dexen Pilot Assembly G42LID Models Only	50-4296
-	IPI Pilot Orifice LP (2021)	50-4080
-	NG to LP Stepper Motor Only (Dexen)	50-4148
-	LP to NG Stepper Motor Only (Dexen)	50-4149
-	Dexen Technical Manual	50-4252

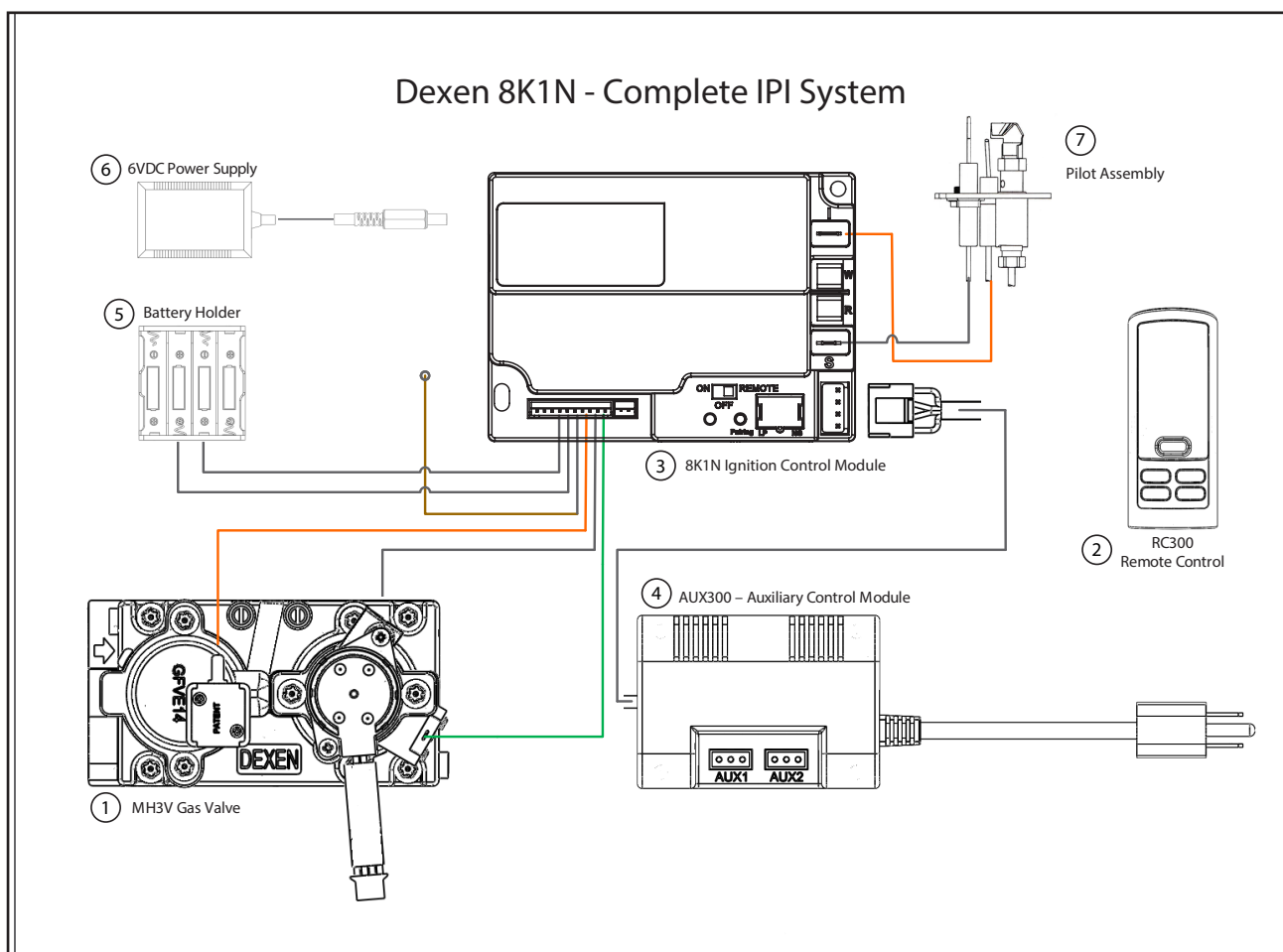


Figure 10: Replacement Part Diagram

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