



Echelon Diamond Digital Thermometer

Model # 24182-12

INSTALLER: Leave these instructions with consumer.
CONSUMER: Retain for future reference.



This digital thermometer is for replacement on an Echelon Diamond grill. To install, follow the steps below:

1. **Ensure the appliance is completely cool, the knobs are in the off position, the gas supply to your appliance is turned off, the master switch is off, and the power supply is disconnected.**
2. Locate the old thermometer on the grill control panel between the knobs. Remove it from the grill by slightly sliding it to the left, then lifting the right side outward until it clears the control panel.

CAUTION: Remove carefully as the wire harnesses will still be attached to the back of the thermometer.

3. **CAREFULLY** pull apart the 3 wire harnesses at the connectors, as shown in Fig. 1-1. **When disconnecting, be sure to pull from the connectors and not the wires.**

CAUTION: Pulling connections apart from the wires may cause damage to your unit.

4. Apply a small amount of dielectric grease to the new thermometer wire harnesses and connect to the exposed wire harnesses coming out of the grill (see Fig. 1-1).

CAUTION: The wire harnesses must be properly connected as shown in Fig. 1-2 (the clips and tabs must align, allowing for easy connections). All 3 wire harnesses have differently sized or shaped connectors to ensure a proper install. **DO NOT FORCE** the connections together.

5. Carefully install the thermometer into the cutout on the control panel.

This completes installation, refer to the following pages for digital thermometer operation.

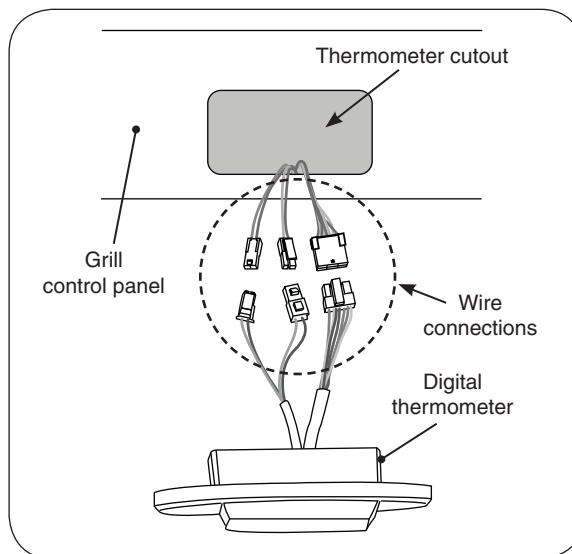


Fig. 1-1 Removing / connecting digital thermometer

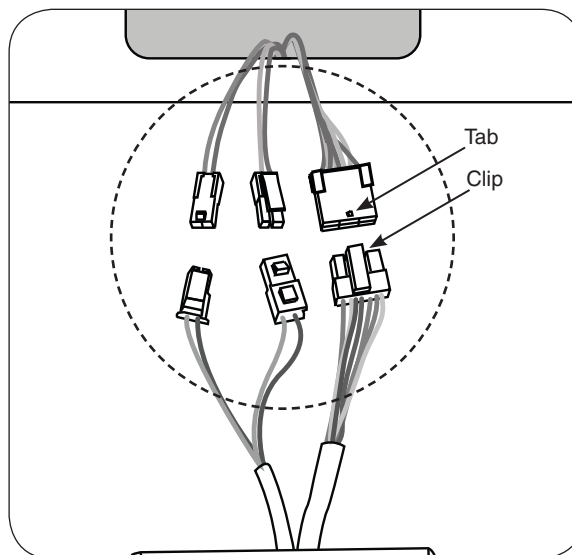


Fig. 1-2 Proper connections

OPERATION

Your grill comes with a digital thermometer for temperature monitoring and timed cooking. Pressing **any** button will turn on the thermometer. The thermometer will automatically shut off after 5 minutes if no temperature change is detected.

Note: The thermometer also controls the interior oven lights, and knob backlights. Thermometer shutdown will not shut off these lights; they must be manually shut off.

The thermometer is located on the control panel between the control knobs.

Plug in the meat probe on the right side of the control panel as shown in Fig. 2-1.

For best performance and temperature readings center the heat zone separators properly between each burner (see PARTS LIST and INSTALLATION - INSTALL HEAT ZONE SEPARATORS section).

Read the following sections completely regarding thermometer operation. Refer to Fig. 2-2 for thermometer orientation and button locations.

Whenever the master switch is turned off or the power supply is disconnected, allow 30 seconds for the thermometer to initialize the next time it is powered on.

Default Screen

Press any button to turn the thermometer ON. The default screen will be displayed. All temperatures for the cooking zones (see USING THE GRILL section) and the meat probe will be shown (Fig. 2-3).

Menu Screen

Press any button to turn the thermometer ON. The default screen will be displayed. Press the **MENU** button to display its screen. Press the up/down arrow to scroll through the options. See Fig. 2-4.

Note: The menu screen will return to the default screen after approximately 30 seconds of no activity. Press the **MENU** button to manually return to the default screen.

Interior Oven Lights and Knob Lights

1. Press the light button to turn both the interior oven lights and knob backlights ON (see Fig. 2-2). The interior oven lights will temporarily shut off when the hood is closed (except for Magic View models).
2. Press the light button once to turn the interior oven lights OFF, and a second time to turn the knob backlights OFF.

Note: Thermometer shutdown will not shut off these lights; they must be manually shut off by turning the thermometer back ON and pressing the light button.

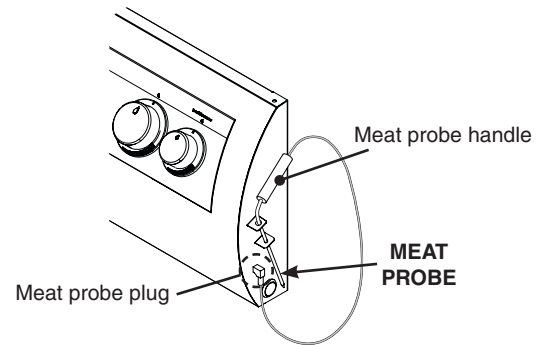


Fig. 2-1 Meat probe detail

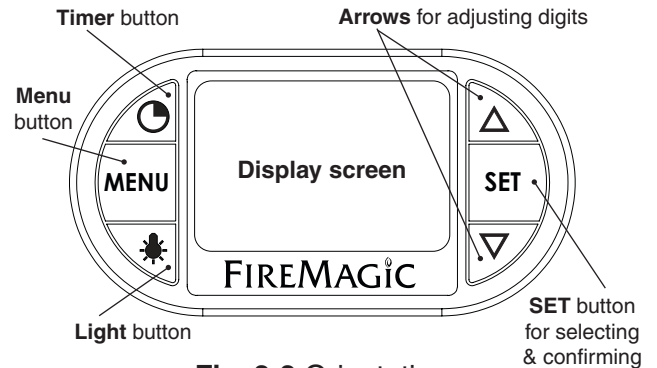


Fig. 2-2 Orientation

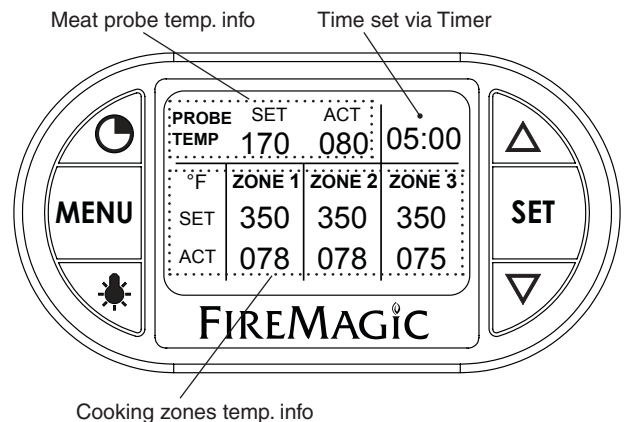


Fig. 2-3 Default screen detail



Fig. 2-4 Menu screen

OPERATION (Cont.)

Setting a Zone and/or Meat Probe Temperature

1. From default screen, press the down arrow to the desired zone / meat probe area (flashing). Press **SET**.
2. The selected location's temperature screen will be displayed. Use the arrows to set the desired temp. The actual temp. will also be shown. See Fig. 3-1.

Note: **PRESSING** the arrows will adjust the desired temp. by increments of one degree. **HOLDING** them down (for several seconds) will adjust the temp. rapidly.

3. Press **SET** to return to the default screen. Repeat as necessary for all other areas.

The display will flash red and the alarm will sound (if set to do so) when an area's temperature reaches its set temperature. Press any button to silence.

Grill Guide and Meat Probe

The grill guide displays recommended ready temperatures for various meats (See Fig. 3-2).

1. Under the menu screen select GRILL GUIDE. Press **SET**.
2. Press the up/down arrow to view the desired meat.
3. Note the temp. and press **SET**. This will take you to the meat probe temperature screen.
4. Use the arrows to set the noted temp.
5. Press **SET** to return to the default screen.

Inserting the meat probe into the cooking meat will give an actual temp. reading. The display will flash red and the alarm will sound (if set to do so) when the actual temp. reaches the set temp. Press any button to silence.

Do not leave the meat probe in the meat for a prolonged period of time, or with the hood closed. The probe is calibrated specifically for use at temperatures between 130°F and 180°F.

Setting the Timer

1. Press the timer button. Use the arrows to set the desired amount of time (see Fig. 3-4.)
2. Press **SET** to return to the default screen.

The time remaining will be shown on the default screen. Once the time reaches zero; the display will flash red and the alarm will sound. Press any button to silence.

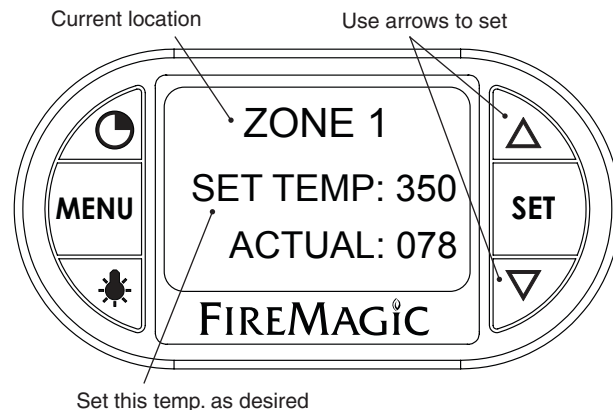


Fig. 3-1 Area temp. screen (zone 1 shown)

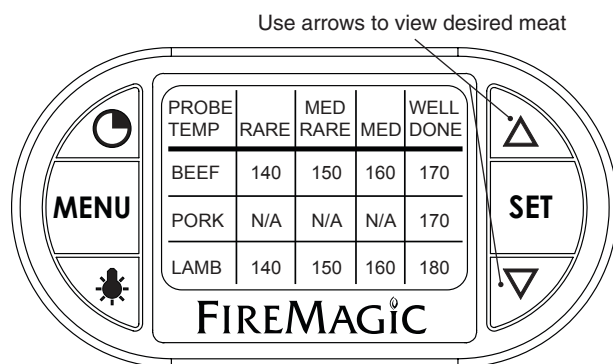


Fig. 3-2 Grill Guide screen

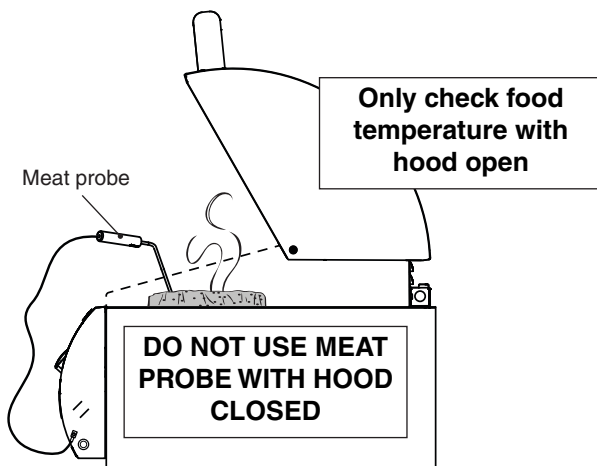


Fig. 3-3 Meat probe

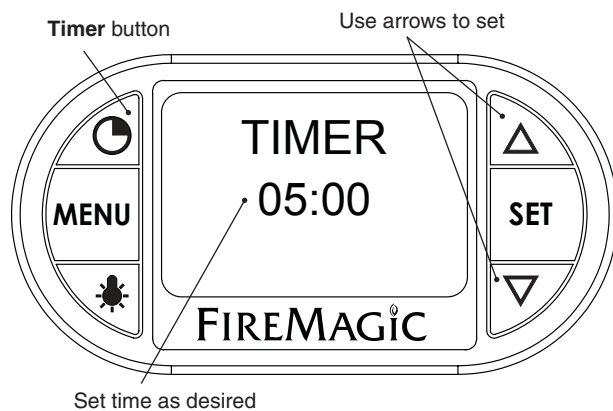


Fig. 3-4 Timer screen

Setting the Alarm (Zones or Meat Probe)

The alarm can be individually set (ON or OFF) for the meat probe and each cooking zone. The default setting has the alarm OFF for the meat probe and cooking zones. The alarm always sounds for the TIMER.

1. Under the menu screen select ALARM. Press **SET**.
2. Use the up/down arrow to select the desired alarm, and press the light button to turn the alarm ON/OFF.
3. Press **SET** to return to the menu screen.
4. Press **MENU** to return to default screen.

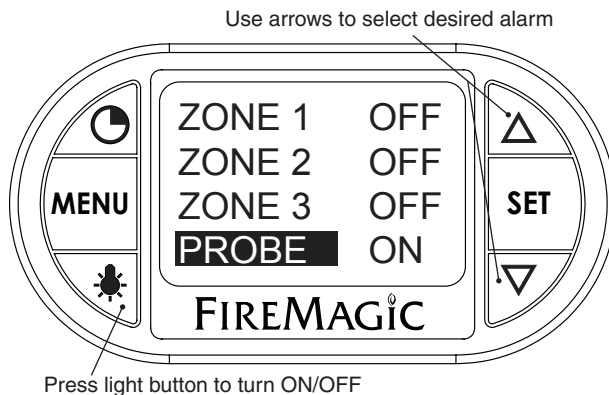


Fig. 4-1 Alarm screen

Setting the Thermometer Backlight

The default color for the thermometer backlight is blue. The color may be changed as desired by turning the three base colors ON/OFF. Various combinations will result in different colors.

1. Under the menu screen select BACKLIGHT. Press **SET**.
2. Use the up/down arrow to select the desired color, and press the light button to turn the color ON/OFF.
3. Press **SET** to return to the menu screen. The new color will now show.
4. Press **MENU** to return to default screen.

Note: Turning all colors OFF will result in no backlight.

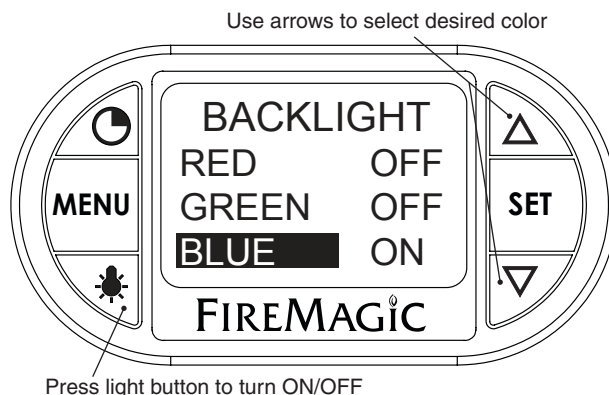


Fig. 4-2 Backlight screen

Changing Temperature Scale (°C/°F)

1. Under the menu screen select SETUP. Press **SET**.
2. Press **SET** to select SETUP F C.
3. Select as desired and press **SET** to return to the menu screen.
4. Press **MENU** to return to default screen.

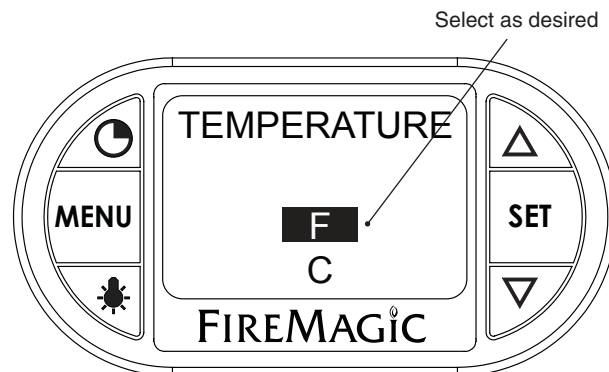


Fig. 4-3 Temperature scale screen