

OWNER'S MANUAL

AIR CONDITIONER

Please read this manual carefully before operating your set and retain it for future reference.

SINGLE PACKAGE TYPE AIR CONDITIONER



P/NO : MFL69466601

www.lg.com

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FOR YOUR RECORDS

Write the model and serial numbers here:

Model # _____

Serial # _____

You can find them on a label on the side of each unit.

Dealer's Name _____

Date Purchased _____

■ Staple your receipt to this page in the event you need it to prove date of purchase or for warranty issues.



READ THIS MANUAL

Inside you will find many helpful hints on how to use and maintain your air conditioner properly. Just a little preventive care on your part can save you a great deal of time and money over the life of your air conditioner.

You'll find many answers to common problems in the chart of troubleshooting tips. If you review our chart of

Troubleshooting Tips first, you may not need to call for service at all.



PRECAUTION

- Contact the authorized service technician for repair or maintenance of this unit.
- Contact the installer for installation of this unit.
- The air conditioner is not intended for use by young children or invalids without supervision.
- Young children should be supervised to ensure that they do not play with the air conditioner.
- When the power cord is to be replaced, replacement work shall be performed by authorized personnel only using only genuine replacement parts.
- Installation work must be performed in accordance with the National Electric Code by qualified and authorized personnel only.



Safety Precautions



To prevent injury to the user or other people and property damage, the following instructions must be followed.

■ Incorrect operation due to ignoring instruction will cause harm or damage. The seriousness is classified by the following indications.

 **WARNING** This symbol indicates the possibility of death or serious injury.

 **CAUTION** This symbol indicates the possibility of injury or damage.

■ Meanings of symbols used in this manual are as shown below.

	Be sure not to do.
	Be sure to follow the instruction.

WARNING

■ Installation

Do not use a defective or underrated circuit breaker. Use this appliance on a dedicated circuit.

- There is risk of fire or electric shock.

Install the panel and the cover of control box securely.

- There is risk of fire or electric shock.

Use the specified wires to connect the unit.

- There is risk of fire or electric shock.

For installation, always contact the dealer or an Authorized Service Center.

- There is risk of fire, electric shock, explosion, or injury.

For electrical work, contact the dealer, seller, a qualified electrician, or an Authorized Service Center.

- Do not disassemble or repair the product. There is risk of fire or electric shock.

Always install a dedicated circuit and breaker.

- Improper wiring or installation may cause fire or electric shock.

Do not install, remove, or re-install the unit by yourself (customer).

- There is risk of fire, electric shock, explosion, or injury.

Do not install the product on a defective installation stand.

- It may cause injury, accident, or damage to the product.

Always ground the product.

- There is risk of fire or electric shock.

Use the correctly rated breaker or fuse.

- There is risk of fire or electric shock.

Be cautious when unpacking and installing the product.

- Sharp edges could cause injury. Be especially careful of the case edges and the fins on the condenser and evaporator.

Be sure the installation area does not deteriorate with age.

- If the base collapses, the air conditioner could fall with it, causing property damage, product failure, and personal injury.

■ Operation

Do not let the air conditioner run for a long time when the humidity is very high and a door or a window is left open.

- Moisture may condense and wet or damage furniture.

Take care to ensure that power cable could not be pulled out or damaged during operation.

- There is risk of fire or electric shock.

Do not place anything on the power cable.

- There is risk of fire or electric shock.

Do not touch(operate) the product with wet hands.

- There is risk of fire or electrical shock.

Do not place a heater or other appliances near the power cable.

- There is risk of fire and electric shock.

Do not allow water to run into electric parts.

- It may cause There is risk of fire, failure of the product, or electric shock.

Do not store or use flammable gas or combustibles near the product.

- There is risk of fire or failure of product.

Do not use the product in a tightly closed space for a long time.

- Oxygen deficiency could occur.

When flammable gas leaks, turn off the gas and open a window for ventilation before turn the product on.

- Do not use the telephone or turn switches on or off. There is risk of explosion or fire.

If strange sounds, or small or smoke comes from product. Turn the breaker off or disconnect the power supply cable.

- There is risk of electric shock or fire.

Stop operation and close the window in storm or hurricane. If possible, remove the product from the window before the hurricane arrives.

- There is risk of property damage, failure of product, or electric shock.

Do not open the panel of the product during operation. (Do not touch the electrostatic filter, if the unit is so equipped.)

- There is risk of physical injury, electric shock, or product failure.

When the product is soaked (flooded or submerged), contact an Authorized Service Center.

- There is risk of fire or electric shock.

Be cautious that water could not enter the product.

- There is risk of fire, electric shock, or product damage.

Turn the main power off when cleaning or maintaining the product.

- There is risk of electric shock.

Take care to ensure that nobody could step on or fall onto the unit.

- This could result in personal injury and product damage.

⚠ CAUTION

■ Installation

Always check for gas (refrigerant) pressure after installation or repair of product.

- Low refrigerant levels may cause failure of product.

Install the drain hose to ensure that water is drained away properly.

- A bad connection may cause water leakage.

Keep level even when installing the product.

- To avoid vibration or water leakage.

Do not install the product where the noise or hot air from the outdoor unit could damage the neighborhoods.

- It may cause a problem for your neighbors.

Don't use people to lift and transport the product.

- Avoid personal injury.

Do not install the product where it will be exposed to sea wind (salt spray) directly.

- It may cause corrosion on the product. Corrosion, particularly on the condenser and evaporator fins, could cause product malfunction or inefficient operation.

■ Operation

Do not expose the skin directly to cool air for long periods of time. (Don't sit in the draft.)

- This could harm to your health.

Do not use the product for special purposes, such as preserving foods, works of art, etc. It is a consumer air conditioner, not a precision refrigeration system.

- There is risk of damage or loss of property.

Do not block the inlet or outlet of air flow.

- It may cause product failure.

Use a soft cloth to clean. Do not use harsh detergents, solvents, etc.

- There is risk of fire, electric shock, or damage to the plastic parts of the product.

Do not touch the metal parts of the product when removing the air filter. They are very sharp!

- There is risk of personal injury.

Do not step on or put anything on the product. (outdoor units)

- There is risk of personal injury and failure of product.

Always insert the filter securely. Clean the filter every four weeks or more often if necessary.

- A dirty filter reduces the efficiency of the air conditioner and could cause product malfunction or damage.

Do not insert hands or other objects through the air inlet or outlet while the product is operated.

- There are sharp and moving parts that could cause personal injury.

Do not drink the water drained from the product.

- It is not sanitary and could cause serious health issues.

Use a firm stool or ladder when cleaning or maintaining the product.

- Be careful and avoid personal injury.

Operation Manual

Category	Functions	LK-C0608A / LK-C0728A LK-C0908A / LK-C1058A
Air Flow	Air supply outlet	1
	Airflow steps(fan/cool/heat)	1/1/-
	Jet cool(Power wind)	-
Installation	E.S.P. control	x
	Electric heater(operation)	x
Reliability	Hot start	-
	Self diagnosis	x
	Soft dry operation	x
	Defrost / Deicing	-
	High pressure switch	O
	Low pressure switch	O
	Phase protection	O
	Restart delay (3-minutes)	-
	Self diagnosis	-
	Soft start	-
	Test function	-
Convenience	Auto operation(Artificial intelligence)	-
	Auto restart operation	-
CAC network	Network solution(LGAP)	-
Function	PDI(Power Distribution Indicator)	-
	PI485	-
Special function kit	Low ambient operation	-
Others	Thermistor	x

Note :

1. * : This function does not require PI 485 kit, Because it can communicate through RS485 method by itself.

O : Applied X : Not applied - : None

Accessory model name : Installed at field, ordered and purchased separately by the corresponding model name, supplied with separate package.

Specification

Power Supply: 20VAC-30VAC 50-60 Hz or Battery powered.

Terminal Load: 1.0 A per terminal, 3.0 A maximum total load

Set Point Temperature Range: 45 °F to 90 °F (7 °C to 32 °C).

Accuracy: +/- 1 °F or +/- 0.5 °C.

Dimensions: 5.1" W X 3.7" H X 1.2" D

Color: White

FEATURES

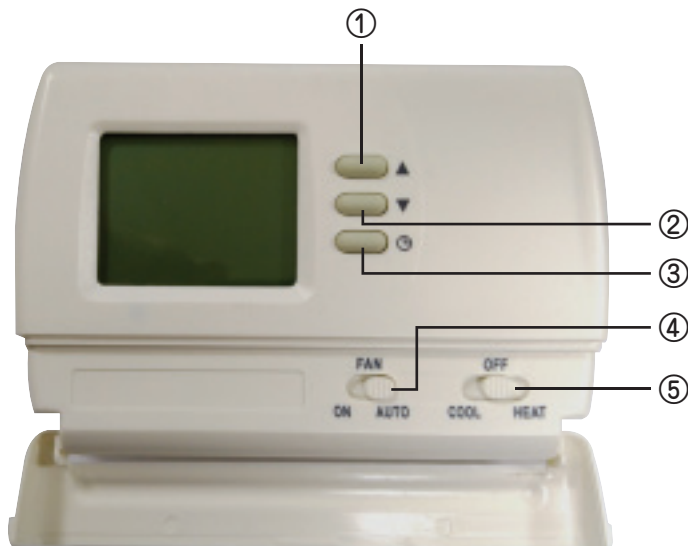
- Large LCD display with backlight, continuous backlight option.
- Simultaneous heat and cool set point storage.
- Display of room temperature, set temperature and current time simultaneously.
- Fan switch with ON and AUTO.
- Permanent user setting retention during power loss. No batteries are required.
- Optional *AAA* batteries provide continuous time and temperature display during power loss.
- Optional temperature display of Fahrenheit or Celsius scale.
- Air Filter change Indicator.
- Compressor short cycling protection available.
- Low Battery Indicator.
- Display temperature calibration.
- Separate 5-day (weekday) and 2-day (Saturday/Sunday) programming with four separate time/temperature periods per day.
- Display temperature recalibrates.

IMPORTANT SAFETY INFORMATION

- Always turn off power at the main power source by removing the fuse, or switching the circuit breaker to the off position before installing, removing, cleaning, or servicing this thermostat.
- Read all of the information in this manual before installing this thermostat.
- Use a professional contractor to install this thermostat.
- This is a 24VAC low-voltage thermostat **DO NOT INSTALL ON VOLTAGES HIGHER THAN 30 VAC.**
- ALL wiring must conform to local and national building and electrical codes and ordinances.
- Do not short (jumper) across terminals on the gas valve or at the system control to test installation. This will damage the thermostat and void the warranty.
- Do not switch the system to cool if the temperature is below 50 °F (10 °C). This can damage the air conditioning system.
- This thermostat will not control your heating/air conditioning system without power. Two "AAA" alkaline batteries are only used to provide continuous time and temperature display during power loss. Installed batteries will allow programming prior to installation.
- Replace batteries when the battery icon indicates the low battery message.
- Change the air filter when the Filter Change Icon begins blinking.
- Use this thermostat only as described in this manual.

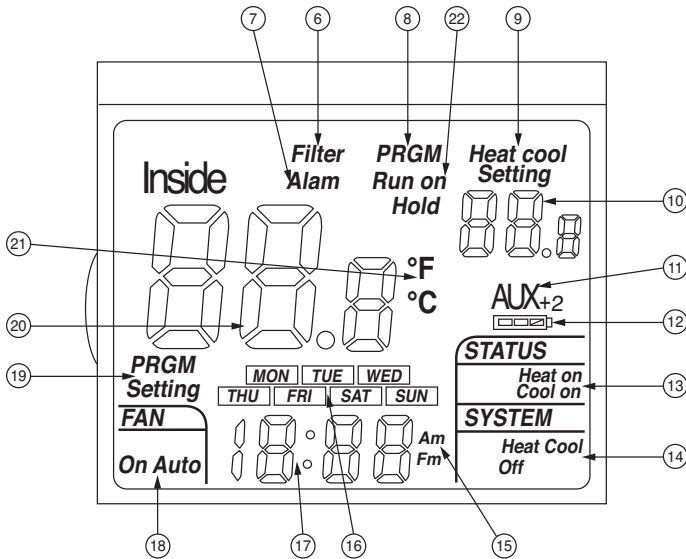
THERMOSTAT (OPTIONAL)

THERMOSTAT BUTTONS AND SWITCHES



- (1) Raises temperature setting
- (2) Lowers temperature setting
- (3) Time setting
- (4) Fan control switch (**ON, AUTO**)
- (5) System control switch (**COOL, OFF, HEAT**)

Note : System control switch “HEAT” will not work.



- (6) Filter Alarm; Indicates filter needs to be replaced.
- (7) Alarm when flashing, indicates a system malfunction
- (8) PRGM Run On: Indicates when the thermostat is In the program RUN mode. (not used.)
- (9) Heat Setting: Temperature set-point in the Heating Mode (not used.)
Cool Setting: Temperature set-point in the Cooling Mode
- (10) Set-point temperature display
- (11) **No leon** indicates when the thermostat is in the 1st stage heat pump mode. (not used.)
AUX +2 indicates when the thermostat activates auxiliary heating (not used.)
- (12) Battery Icon: If the Battery Icon is flashing, batteries need to be replaced.
- (13) Indicates the thermostat is calling for HEAT or COOL
- (14) Indicates the current system switch position
- (15) Clock AM/PM indicator
- (16) Indicates the current day, or days being programmed
- (17) Indicates the current time of day or time of days being programmed.
- (18) Indicates the current fan switch position.
- (19) Indicates when the thermostat is in the PRGM mode. (not used.)
- (20) Indicates the current actual room temperature, or the current configuration menu number.
- (21) Indicates whether the displayed temperature is in °F or °C
- (22) HOLD: Indicates when the thermostat is in the temperature HOLD mode (not used.)

INSERTING THE BATTERIES

Attach thermostat base to wall pull the cover off the base.

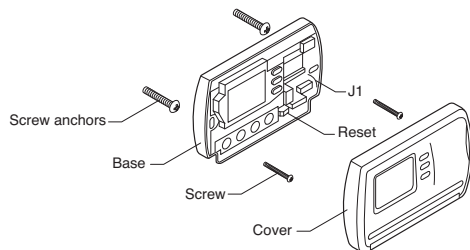


Figure 1

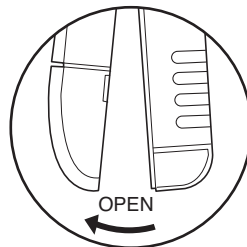


Figure 2

Turn off power at the main service panel by removing the fuse or switching the appropriate circuit breaker to the OFF position before removing the existing thermostat

1. Turn off power to the heating and cooling system by removing the fuse or switching the appropriate circuit breaker off.
2. Place the system switch (COOL/OFF/HEAT) in the OFF position.
3. Place the **FAN (AUTO/ON)** switch in the **AUTO** position
4. Gently pull the cover straight off the base. (See figure 2.)
5. Put the thermostat base against the wall when you plan to mount it (Be sure the wires will feed through the wire opening in the base of the thermostat)



CAUTION: Installing batteries backwards can damage the thermostat.

6. Install two fresh "AAA" alkaline batteries in the battery compartment. Be sure to match positive (+) ends of batteries with positive (+) battery terminals in the battery compartment. (The thermostat will operate from 2 size "AAA" alkaline batteries or 24VAC power. When operated from 24VAC power, your thermostat will maintain time and continuously display the temperature during a loss of AC power with the batteries installed.)
7. Replace the cover on the thermostat by snapping it in place.
8. Turn on power to the system at the main service panel.
9. Test thermostat operation as described in the following section.

BATTERY OPERATION

The thermostat is powered by 24VAC. Batteries are not required for proper operation, but with two "AAA" batteries installed, your thermostat will maintain time and continuously display the temperature during a loss of power.

CHECK THERMOSTAT OPERATION

If at any time during testing your system does not operate properly, contact a qualified service person.
Turn on power to the system

• FAN OPERATION

Move the system switch to the **OFF** position. If your system does not have a "G" (Fan) terminal connection, skip to the Heating System.

1. Move the fan switch to the **ON** position. The blower should begin to operate.
2. Move the fan switch to the **AUTO** - position. The blower should stop immediately.

• COOLING SYSTEM



CAUTION

To prevent compressor damage, if the outdoor temperature is below 50°F (10°C), **DO NOT** operate the cooling system.

1. Move SYSTEM switch to **COOL** position.
2. Press ▼ to adjust thermostat setting below room temperature. The blower should come on immediately, followed by cold air circulation. If the **COOL ON** display is flashing, the 1st stage compressor is at off-time cycle protection
3. Both stages of cooling system will begin to operate when the set point is 3°F (2°C) below ambient **AUX +2** display will be display. If **+2** display is flashing, the second stage will delay 15 minutes before starting (Note: See Configuration menu item 1)
4. Press ▲ to adjust temperature setting above room temperature. The cooling system should stop operating. If all functions operate properly, the thermostat is installed correctly.

• REPLACING BATTERIES

If your thermostat was pre-installed, the batteries may be in place. If the battery icon on the display is flashing, it indicates that the batteries need to be replaced. When the thermostat is powered only by battery, the battery icon will flash for approximately 2 months before the batteries are expected to expire.

Important: Replace the batteries when the low battery message flashes on the display. This will keep the thermostat operating properly. With two "AAA" batteries installed, your thermostat will maintain time and continuously display the temperature during a loss of AC power.

1. Place the **COOL/OFF/HEAT** switch in the **OFF** position.
2. Put the **FAN AUTO/ON** switch in the **AUTO** position.
3. Gently pull the cover straight off the base.
4. Install two "AAA" alkaline batteries in battery compartment. Be sure to match the positive (+) ends of the batteries with the positive (+) terminals as marked in the battery compartment
5. It may take as long as 30 seconds for the low battery icon to disappear after changing batteries.



CAUTION: Incorrect battery installation can damage the thermostat and void the warranty.

CONFIGURATION AND OPERATION

1. Configuration Menu

The configuration menu allows you to set certain thermostat operating characteristics to your system or personal requirements. Move the **SYSTEM** switch to the **OFF** position, then press and hold the **▲+▲** buttons for 5 seconds to enter the configuration menu. The display will show the first item in the configuration menu. Press the **Time setting** button to move to the next menu item. Use the **▲** and **▼** buttons to select. To revert to factory default settings press the **RESET** button (See Fig. 1). All user's changed settings will revert to factory default settings, including program settings. To exit the configuration menu and return to normal operation, move the **SYSTEM** switch to the **COOL**. If no buttons are pressed within 30 seconds, the thermostat will exit the configuration menu. The configuration menu chart summaries the configuration options. An explanation of each option follows.

Step	Press Buttons	Displayed (Factory Defaults)	PRESS ▲ or ▼ to select	Description
1	▲+▲ 5 seconds	CC (FA)	FA or SL	Select fast cooling or slow cooling
2	Time setting button	HC (FA)	FA or SL	Select fast heating or slow heating
3	Time setting button	bL (2)	1 - 3	Select display backlight mode.
4	Time setting button	FL (00)	00 - 12	Select filter time in months. A selection of "00" deactivates the filter feature.
5	Time setting button	FC (F)	F or C	Select °F or °C Readout
6	Time setting button	CL (0)	+4 to -4	Select temperature calibration point up to 4 °F higher or 4 °F lower.
7	Time setting button	CP (5)	0 or 5	Compressor Lockout delay time. 0 = none ; 5 = 5 Minutes

Note : "HC" will not work

1. Select cooling cycle rate

The **FA** setting is used to produce shorter cooling cycles. The **SL** setting produces a longer cooling cycle. Both settings produce very accurate temperature control and can be set to your personal preference. **FA** cycles the system at a 0.5 °F (0-5 °C) differential, and Aux cooling at 2.0 °F high first stage on. **SL** cycles the system at 1.5 °F (1 .5 °C) differential, and Aux cooling at 2.0 °F high first stage on. The default setting is FA.

2. Select display backlight

The display backlight improves display contrast in low lighting conditions. Select 1 for NO backlight display. Select 2 for the backlight to come on for approximately 30 seconds when any button of the thermostat is touched. Select 3 for the backlight to remain on continuously. The default setting is "2".

NOTE: When operated from batteries (No "C" terminal connection, or if AC power goes off), the LCD display backlight will be disabled regardless of which configuration number is selected.

3. Select filter replacement run time

The thermostat will display the **Filter Alarm** after a set time of operation. This is a reminder to change or clean your air filter. This time can be set from 00 to 12 months in 1 month increments. Selection of 00 WILL CANCEL THIS FEATURE. When **Filter Alarm** is displayed, you can clear it by pressing the "F" button (To enter filter program) and then hold the ▲ and ▼ buttons. This resets the timer and starts counting the days until the next filter change. The default setting is "00".

4. Select °F or °C readout

Changes the display readout to Centigade or Fahrenheit as required. The default setting is "f~".

5. Select temperature recalibration

This feature allows you to adjust the displayed room temperature up to 4 °F higher or lower. Your thermostat can be accurately calibrated to match your previous thermostat. The current or adjusted room temperature will be displayed on the display. The default setting is "0".

6. Select compressor lockout delay

To protect the compressor from short cycling, you can select compressor off-time cycle between 0 or 5 minutes. When the thermostat compressor time delay occurs, the **Cool On** or **Heat On** display will flash during compressor lockout. The default setting is "5".

MANUAL OPERATION

1. CHECK COUNT BACK FOR FILTER REPLACEMENT

- a) When in configuration the selections are in months, each month selections are equal to 30 days.
- b) To review the remaining days hold the "F" button
- c) To reset the filter days - hold the "F" button (to enter the filter program) and then hold the ▲ or ▼ buttons.
This resets the timer and starts counting the days until the next filter change.

2. SET CURRENT DAY AND TIME

- a) Press the **TIME** button for 3 seconds. The display will show the hours numbers flashing.
- b) Press and hold either the ▲ or ▼ button until the correct hour and AM/PM designator is reached.
(AM begins at midnight, PM begins at noon).
- c) Press the **TIME** button again. The display will show the minutes numbers flashing.
- d) Press and hold either the ▲ or ▼ button until the correct minutes are reached.
- e) Press the **TIME** button again. The display will show the day of the week flashing.
- f) Press and hold either the ▲ or ▼ button until the correct week day is selected.
- g) Press the **RUN** button once, The display will now show the correct day of the week and the correct time.
Note: The time of day clock **MUST** be set to the correct day and time in order for the programmed times to be correct

