



Operating Manual

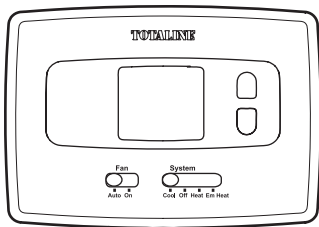
Totaline® Easy 1H/1C and 2H/1C

Non-Programmable P320 Series Thermostat

570-209



69-2259EFS-01



M27905

This manual covers the following models:**P320-0110:** For 1 Heat/1 Cool systems**P320-0210:** For 2 Heat/1 Cool heat pump systems only

(Pull thermostat from wallplate and turn over to find model number.)

**CAUTION: EQUIPMENT DAMAGE HAZARD.**

To prevent possible compressor damage, do not operate cooling system when outdoor temperature is below 50°F (10°C).

Need Help?

Visit www.Totaline.com.

Read and save these instructions.

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Thermostat Operation

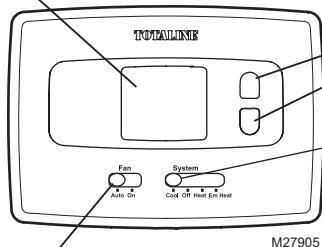
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Quick reference to controls

Digital display screen



Temperature adjustment (see page 6)

System switch (see page 4)

- **Cool:** Cooling system control.
- **Off:** All systems off.
- **Heat:** Heating system control.
- **Em Heat:** Emergency & Auxiliary Heat control. Compressor is locked out. (Select models only.)

Fan Switch (see page 5)

On: Fan runs continuously.

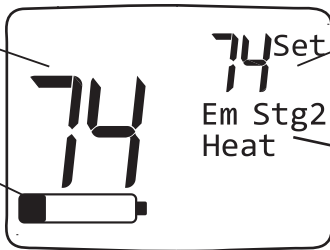
Auto: Fan runs only when heating or cooling system is on.

Quick reference to display screen

Current temperature

Temperature setting

Low battery warning
(see page 8)



If “Heat 🔥” or “Cool ❄️” is flashing, compressor protection is engaged (see page 7).

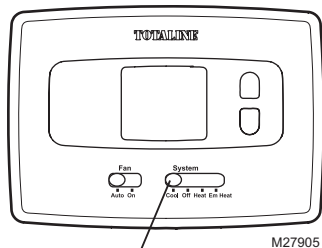
System Status

- **Cool ❄️**: Cooling system is on.
- **Heat 🔥**: Heating system is on.
- **Em**: Emergency heat is on. **
- **Stg2**: Auxiliary heat is on. **

** Only for heat pumps with this capability (select models only).

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System switch



Set **SYSTEM** switch to control the heating or cooling system.

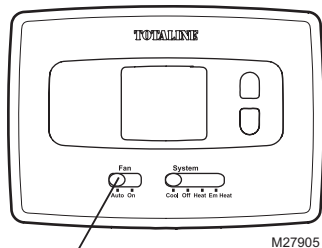
The **SYSTEM** switch can be set to control your heating or cooling system, depending on the season.

- **Cool:** Cooling system control.
- **Off:** All systems are off.
- **Heat:** Heating system control.
- **Em Heat:** Emergency & Auxiliary Heat control. Compressor is locked out. (Select models only.)



CAUTION: EQUIPMENT DAMAGE HAZARD.
Do not operate cooling system when outdoor temperature is below 50°F (10°C).

Fan switch



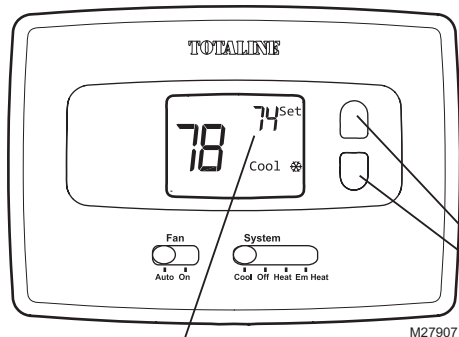
Set the **FAN** switch to Auto or On.

In “Auto” mode (the most commonly used setting), the fan runs only when the heating or cooling system is on.

If set to “On,” the fan runs continuously.

Set **FAN** switch to choose whether the fan runs continuously or only as needed.

Temperature controls



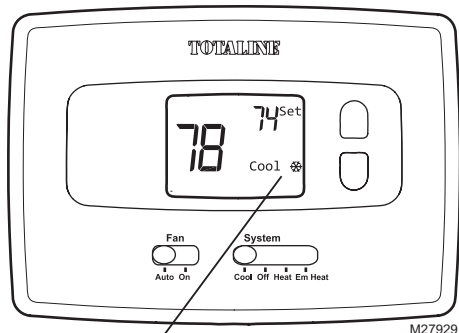
Desired
temperature.

Press the temperature adjustment buttons until the temperature you want is displayed in the upper right portion of the screen.

Note: Make sure the **SYSTEM** switch is set to the system you want to control (Heat or Cool).

Temperature
adjustment buttons.

Built-in compressor protection



Message flashes until safe restart time has elapsed.

This feature helps prevent damage to the compressor in your air conditioning or heat pump system.

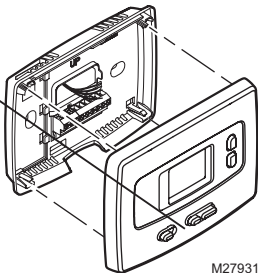
Damage can occur if the compressor is restarted too soon after shutdown. This feature forces the compressor to wait 5 minutes before restarting.

During the wait time, the display will flash the message Cool ❄ (or Heat 🔥 if you have a heat pump). When the safe wait time has elapsed, the message stops flashing and the compressor turns on.

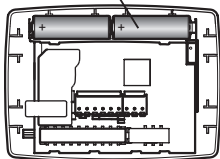
Battery replacement

Pull at bottom to remove thermostat from wallplate.

Turn thermostat over, insert fresh AA alkaline batteries, then reinstall thermostat.




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Batteries are optional (for backup power) if your thermostat was wired to run on AC power when installed.

Install fresh batteries when the  warning begins flashing. The warning flashes about two months before the batteries are depleted.

Replace batteries once a year, or before leaving home for more than a month. Batteries provide backup power to the display during power interruptions. All settings are permanently stored in memory, and do not require battery power.

Troubleshooting

If you have difficulty with your thermostat, please try the following suggestions.

Display is blank

- Check circuit breaker and reset if necessary.
- Make sure power switch at heating & cooling system is on.
- Make sure furnace door is closed securely.
- Make sure fresh AA alkaline batteries are correctly installed (see page 8).

Heating or cooling system does not respond

- Set system switch to Heat (see page 4). Make sure the temperature is set higher than the Inside temperature.
- Set system switch to Cool (see page 4). Make sure the temperature is set lower than the Inside temperature.
- Wait 5 minutes for the system to respond.

Troubleshooting

Temperature settings do not change

Make sure heating and cooling temperatures are set to acceptable ranges:

- Heat: 40° to 90°F (4.5° to 32°C).
- Cool: 50° to 99°F (10° to 37°C).

“Cool ❄️” or “Heat 🔥” is flashing

- Compressor protection feature is engaged. Wait 5 minutes for the system to restart safely, without damage to the compressor (see page 7).

“Heat 🔥” is not displayed

- Set the System switch to Heat, and set the temperature level above the current room temperature (see page 6).

“Cool ❄️” is not displayed

- Set the System switch to Cool, and set the temperature level below the current room temperature (see page 6).

Customer assistance

Visit www.Totaline.com.

Accessories/replacement parts

Contact your heating/cooling contractor for replacement parts.

Cover plate assembly* Part No. P350-CP-MULTI

*Use to cover marks left by old thermostats.

Limited Five-Year Warranty

FIVE-YEAR WARRANTY—This CARRIER CORPORATION product is warranted to be free from defects in material and workmanship under normal use and maintenance for a period of five years from the date of original installation. A new or remanufactured part to replace the defective part will be provided without charge for the part itself, through a qualified servicing CARRIER CORPORATION dealer or service, provided the defective part is returned to our distributor. The replacement part assumes the unused portion of the warranty.

THIS WARRANTY DOES NOT INCLUDE ANY ADDITIONAL LABOR ALLOWANCE OR OTHER COSTS incurred for diagnosis, repairing, removing, installing, shipping, servicing, or handling of either defective parts or replacement parts. **SUCH COSTS MAY BE COVERED BY** a separate warranty provided by the installer.

LIMITATIONS OF WARRANTIES—ALL IMPLIED WARRANTIES (INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY) ARE HEREBY LIMITED IN DURATION TO THE PERIOD FOR WHICH THE LIMITED WARRANTY IS GIVEN. THE EXPRESSED WARRANTIES MADE IN THIS WARRANTY ARE EXCLUSIVE AND MAY NOT BE ALTERED, ENLARGED, OR CHANGED BY ANY DISTRIBUTOR, DEALER, OR OTHER PERSON WHATSOEVER.

CARRIER WILL NOT BE RESPONSIBLE FOR:

1. Normal maintenance as outlined in the installation and servicing instructions or owner's manual.
2. Damage or repairs required as a consequence of faulty installation or application by others.
3. Failure to start due to voltage conditions, blown fuses, open circuit breakers or other damages due to the inadequacy or interruption of electrical service.
4. Damage or repairs needed as a consequence of any misapplication, abuse, improper servicing, unauthorized alteration, or improper operations.
5. Damage as a result of floods, winds, fires, lightning, accidents, corrosive atmosphere, or other conditions beyond the control of CARRIER CORPORATION.

Limited Five-Year Warranty

6. Parts not supplied or designated by CARRIER CORPORATION.
7. CARRIER CORPORATION products installed outside the continental U.S.A., Alaska, Hawaii, and Canada.
8. Electricity or fuel costs or increases in electricity or fuel costs from any reason whatsoever including additional or unusual use of supplemental heat.
9. ANY SPECIAL INDIRECT OR CONSEQUENTIAL PROPERTY OR COMMERCIAL DAMAGE OF ANY NATURE WHATSOEVER. Some states do not allow the exclusion of incidental or consequential damages, so the above limitation may not apply to you.

Model No.

Date of Installation

Name of Owner

Unit Serial No.

Installed by

Address of Installation



Printed in U.S.A. on recycled
paper containing at least 10%
post-consumer paper fibers.

570-209

69-2259EFS—01 M.S. 11-08