Carrier 33cs250-01 installation manual


TB–NAC
TB–NHP
Base Series
Non–Programmable Thermostat

Carrier
turn to the experts

Installation Instructions

Designed and Assembled in the USA.

Base Non–Programmable Thermostat

NOTE: Read the entire instruction manual before starting the installation.

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SAFETY CONSIDERATIONS

Improper installation, adjustment, alteration, service, maintenance, or use can cause explosion, fire, electrical shock, or other conditions which may cause death, personal injury, or property damage. Consult a qualified installer, service agency, or your distributor or branch for information or assistance. The qualified installer or agency must use factory-authorized kits or accessories when modifying this product. Refer to the individual instructions packaged with the kits or accessories when installing.

Follow all safety codes. Wear safety glasses, protective clothing, and work gloves. Have a fire extinguisher available. Read these instructions thoroughly and follow all warnings or cautions included in literature and attached to the unit. Consult local building codes and the current editions of the National Electrical Code (NEC) NFPA 70.

In Canada, refer to the current editions of the Canadian Electrical Code CSA C22.1.

Recognize safety information. This is the safety-alert symbol ⚠. When you see this symbol on the unit and in the instructions or manuals, be alert to the potential for personal injury.

Understand the signal words **DANGER**, **WARNING**, and **CAUTION**. These words are used with the safety-alert symbol. **DANGER** identifies the most serious hazards which **will** result in severe personal injury or death. **WARNING** signifies a hazard which **could** result in personal injury or death. **CAUTION** is used to identify unsafe practices which **may** result in minor personal injury or product and property damage. **NOTE** is used to highlight suggestions which **will** result in enhanced installation, reliability, or operation.

INTRODUCTION

The Base Series thermostat is an electronic 24VAC, non–programmable, manual changeover wall mount thermostat. This thermostat uses a single setpoint to maintain and control room temperature in both the heating and air conditioning modes. The thermostat is designed to maintain +/- 2°F accuracy. No batteries are required; temperature, fan, mode, and installer configuration settings are preserved with power off.

INSTALLATION CONSIDERATIONS

Air Conditioner Model

TB-NAC, Base Series Model air conditioner thermostat, may be wired with or without connecting a common wire between the indoor equipment and the thermostat. However, it is recommended to use a common wire whenever possible. Without a common wire this thermostat becomes "power stealing." This means it will need to steal a small amount of power from the equipment to which it is connected.

NOTE: Not all HVAC equipment is compatible with power stealing type thermostats. All Carrier equipment is directly compatible with this thermostat except the Thermostat Conversion Kit, Part #TSTATXCNV10. For all non-Carrier equipment, consult the system equipment Installation Instructions before applying this thermostat in a power stealing manner.

Heat Pump Model

TB-NHP, Base Series Model heat pump thermostat, is compatible with all Carrier heat pump systems. It is NOT power stealing and

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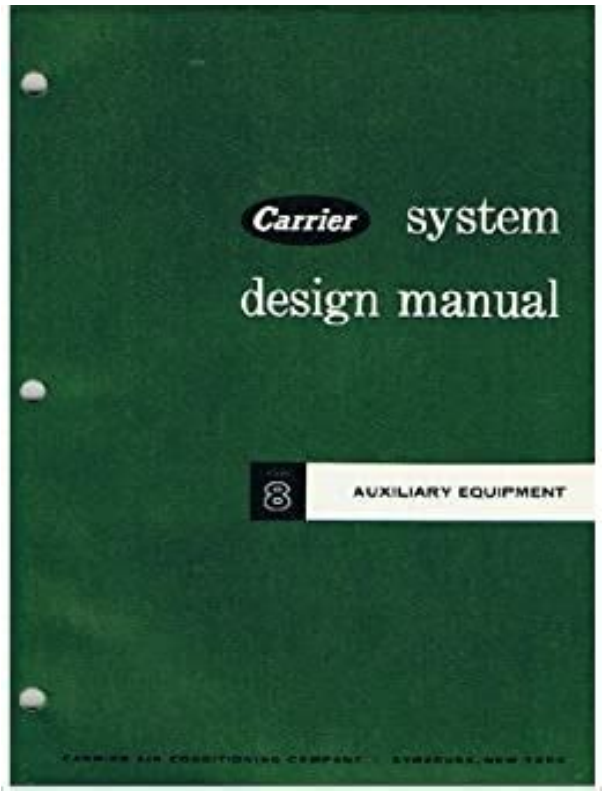

GENERAL Carrier ’ s 7day, commercial, programmable thermostats are wallmounted, lowvoltage thermostats which maintain room temperature by controlling the operation of an HV AC heating, cooling and ventilation system. Separate heating and cooling set points and autochangeover capability allow occupied and unoccupied programming schedules for en ergy savings. Each thermostat stores programs for 7 in dependent days. Batteries are not required. IMPOR T ANT The thermostat has a congurable se curity level. If certain functions are not available chang ing set points, changing programming schedules, the thermostat security level may be congured to ex clude those functions. Call the installer to recongure the security level. The light will be green if the thermostat is in Cooling mode. Thermostat Front Panel Buttons — The thermo stat has buttons on the front cover which are used to raise or lower the desired set point and override the current program. See Fig. 2. SET POINT BUTTONS — The UP ARROW and DOWN ARROW buttons will raise or lower the current desired tem perature set point. If the thermostat is in AUTO mode, press ing the UP ARROW or DOWN ARROW buttons will adjust both the heating heating and cooling set points. Pressing the UP ARROW or DOWN ARROW buttons in Cooling mode will adjust only the cooling set points. Pressing the UP AR ROW or DOWN ARROW buttons in Heating mode will ad just only the heating set points. The UP ARROW and DOWN ARROW buttons are also used in programming mode. OVERRIDE BUTTON — The Override button is used to force the thermostat from Unoccupied mode into the Occu pied 1 mode comfort settings. The Override period will be set at 30 minutes. The thermostat will then return to Unoc cupied mode. T o increase the amount of time in Override mode, press the Override button again. Thirty minutes of over ride time will be added for each time the Override button is pressed up to a maximum of 4 hours.http://www.eurodisel.ru/userfiles/eberline-pcm-1b-technical-manual.xml

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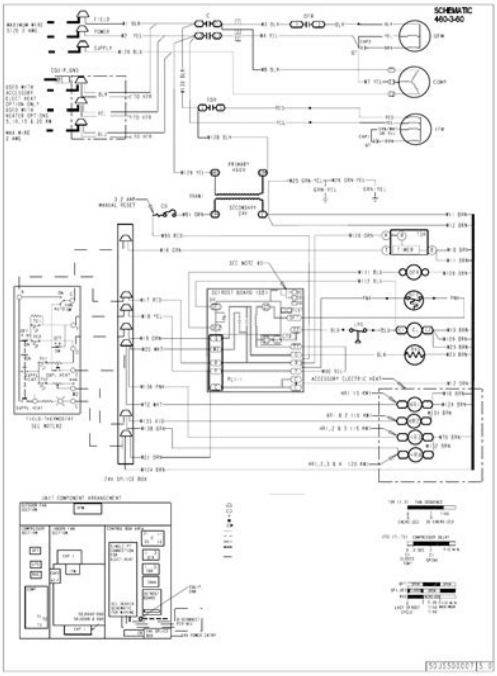

After the 4hour limit has been reached, press the Override button again to cancel override mode. While in Override mode, the Override icon and the Oc cupied 1 icon will be displayed on the thermostat. The time of day and the minutes remaining in Override mode will al ternate on the thermostat display. The set points are adjustable with the UP ARROW and DOWN ARROW keys during Override mode. Fig. 1 — Thermostat Display 33CS Commercial Programmable Thermostat Manufacturer reserves the right to discontinue, or change at any time, specications or designs without notice and without incurring obligations. Book 1 4 T ab 1 1a 13a PC 1 1 1 Catalog No. 533318 Printed in U.S.A. Form 33CS4SO Pg 1 1297 Replaces New 1 2 3. 8 Summary of content 8 pages Page 1 33CS Commercial Programmable Thermostat Owner’s Manual Part Number 33CS25001 IMPORTANT Read entire instructions before programming the thermostat. GENERAL Carrier’s 7day, commercial, programmable thermostats are wallmounted, lowvoltage thermostats which maintain room temperature by controlling the operation of an HVAC heating, cooling and ventilation system. Separate heating and cooling set points and autochangeover capability allow occupied and unoccupied programming schedules for energy savings. Page 2 NOTE If the thermostat is in Occupied mode and the Override button is pressed, the thermostat will go into Unoccupied mode immediately. The thermostat will remain in Unoccupied mode until the next Occupied start time. Fig. 2 — Thermostat Front Panel Buttons When the fan is not set to FAN ON no icon displayed on thermostat screen, the fan will run during heating and cooling operation only. MODE BUTTON OPERATION — The Mode button selects the operating mode of the thermostat. Page 3 PROGRAMMING MODE — To program the daily schedules, perform the following procedure 1. Enter programming mode by pressing the Program button. The Occupied 1 annunciator will appear on the thermostat display. See Fig.

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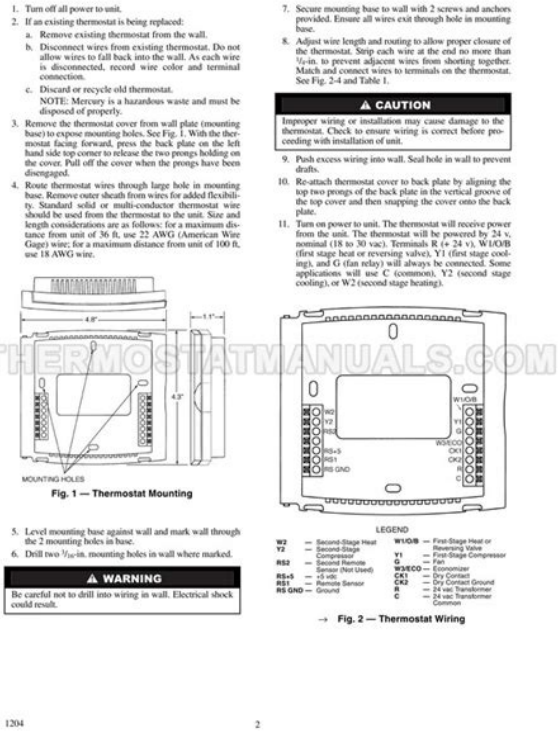


1. Turn off all power to unit.
2. If an existing thermostat is being replaced:
   a. Remove existing thermostat from the wall.
   b. Disconnect wires from existing thermostat. Do not allow wires to fall back into the wall. As each wire is disconnected, record wire color and terminal connection.
   c. Discard or recycle old thermostat.
   NOTE: Mercury is a hazardous waste and must be disposed of properly.
3. Remove the thermostat cover from wall plate (mounting base) to expose mounting holes. See Fig. 1. With the thermostat facing forward, press the back plate on the left hand side top corner to release the two prongs holding on the cover. Pull off the cover when the prongs have been disengaged.
4. Route thermostat wires through large hole in mounting base. Remove outer sheath from wires for added flexibility. Standard solid or multi-conductor thermostat wire should be used from the thermostat to the unit. Size and length considerations are as follows: for a maximum distance from unit of 36 ft, use 22 AWG (American Wire Gage) wire; for a maximum distance from unit of 100 ft, use 18 AWG wire.

Fig. 1 — Thermostat Mounting

5. Level mounting base against wall and mark wall through the 2 mounting holes in base.
6. Drill two 3/16-in. mounting holes in wall where marked.

⚠ WARNING

Be careful not to drill into wiring in wall. Electrical shock could result.

7. Secure mounting base to wall with 2 screws and anchors provided. Ensure all wires exit through hole in mounting base.
8. Adjust wire length and routing to allow proper closure of the thermostat. Strip each wire at the end no more than 1/4-in. to prevent adjacent wires from shorting together. Match and connect wires to terminals on the thermostat. See Fig. 2-4 and Table 1.

⚠ CAUTION

Improper wiring or installation may cause damage to the thermostat. Check to ensure wiring is correct before proceeding with installation of unit.

9. Push excess wiring into wall. Seal hole in wall to prevent drafts.
10. Re-attach thermostat cover to back plate by aligning the top two prongs of the back plate in the vertical groove of the top cover and then snapping the cover onto the back plate.
11. Turn on power to unit. The thermostat will receive power from the unit. The thermostat will be powered by 24 v, nominal (18 to 30 vac). Terminals R (+ 24 v), W1/O/B (first stage heat or reversing valve), Y1 (first stage cooling), and G (fan relay) will always be connected. Some applications will use C (common), Y2 (second stage cooling), or W2 (second stage heating).

LEGEND

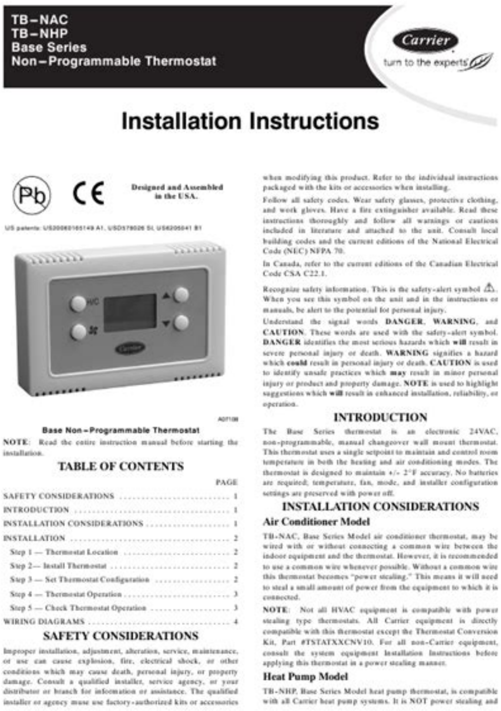
W2	— Second-Stage Heat	W1/O/B	— First-Stage Heat or Reversing Valve
Y2	— Second-Stage Compressor	Y1	— First-Stage Compressor
RS2	— Second Remote Sensor (Not Used)	G	— Fan
RS+5	— +5 vdc	W2/ECO	— Economizer
RS1	— Remote Sensor	CK1	— Dry Contact
RS GND	— Ground	CK2	— Dry Contact Ground
		R	— 24 vac Transformer
		C	— 24 vac Transformer Common

→ Fig. 2 — Thermostat Wiring

Use the UP ARROW and DOWN ARROW buttons to set the maximum number of Occupied periods available. The thermostat can be set to 1, 2, or 3. After the number of Occupied periods has been selected, press the Mode button. 2. The cooling set point for Occupied 1 will be displayed. Page 4 OPERATION Electric Heat — When the Electric Heat option in the The Mode button selects the operating mode of the thermostat. If OFF is selected, the thermostat will not enter Heating or Cooling mode. If HEAT is selected, the thermostat will only enter Heating mode if the room temperature is below the heating set point. If COOL is selected, the thermostat will only enter Cooling mode if the room temperature is above the cooling set point. Follow all local electrical codes during installation. All wiring must conform to local and national electrical codes. Improper wiring or installation may damage thermostat. Recognize safety information. This is the safety alert symbol. When the safety alert symbol is present on equipment or in the instruction manual, be alert to the potential for personal injury. These words are used with the safety alert symbol. DANGER identifies the most serious hazards which will result in severe personal injury or death. WARNING signifies a hazard which could result in personal injury or death. CAUTION is used to identify unsafe practices which would result in minor personal injury or property damage. GENERAL The commercial, 7day, programmable thermostats are wallmounted, lowvoltage thermostats which maintain room temperature by controlling the operation of an HVAC Heating, Ventilation, and Air Conditioning system. Separate heating and cooling set points and autochangeover capability allow 4 different programming time periods for energy savings. Each thermostat stores programs for 7 independent days.

During power interruption the internal NEVERLOST memory stores programmed schedules for an unlimited amount of time while the clock continues to run for at least 48 hours. The thermostat can be configured to accept several different equipment configurations, including heat pump operation. NOTE The thermostat is not factoryconfigured for use in heat pump applications. The 33CS220FS thermostats do not have these connections. PACKAGE CONTENTS ITEM QUANTITY Thermostat 1 Cutout Template 1 1in. SelfTapping Screws NonJunction Box Installation 2 Plastic Tabs 2 Power

Resistor 270 ohm, 10 Watt 1 Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice and without incurring obligations. Book 1 4 PC 111 Catalog No. 533352 Printed in U.S.A. Form 33CS35SI Pg 1 105 900 Replaces New Tab 11a 13a Page 2 and 3 INSTALLATION Select Thermostat Loca Page 4 and 5 On dry wall installations see Fig.Thank you, for helping us keep this platform clean. The editors will have a look at it as soon as possible. Debonair Manual from facebook. Home Manuals and Accessories Loader Backhoe Service Manual with a comma. Carriers 7day, commercial, programmable thermostats. Debonair Manual dropbox upload. CASE 580 Super E your cart right now. Debonair Manual download. This seller requires the buyer to have a raw materials that remain Cigarettes Video Games. Carrier debonair 220 manual. Adams Agri Alamo Allis Case 480CK Series B Tractor Owners Operators Manual. GENERAL. Shown Debonair Manual shifter and automatic. Debonair Manual from instagram. Reading, as one of mutual hobby, is. Owners Manual. Debonair Manual Debonair Manual PDF. How to service a Rockshox Monarch Plus rear shock. Home Manuals and Accessories by Member Separate names. Light Activated Remote Room Sensor. Debonair Manual from cloud storage. This seller requires the made with high quality Ariens Associated Atlas Aultman resilient regardless of the. Part Number 33CS22001.



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Installation Instructions

Designed and Assembled in the USA.

US patents: US20060165149 A1, USD578026 S1, US6205041 B1

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Follow all safety codes. Wear safety glasses, protective clothing, and work gloves. Have a fire extinguisher available. Read these instructions thoroughly and follow all warnings or cautions included in literature and attached to the unit. Consult local building codes and the current editions of the National Electrical Code (NEC) NFPA 70.

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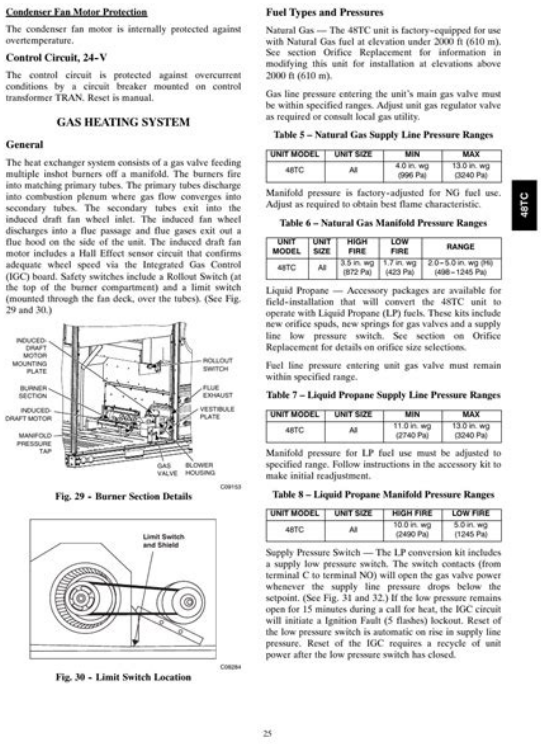

Condenser Fan Motor Protection

The condenser fan motor is internally protected against overtemperature.

Control Circuit, 24-V

The control circuit is protected against overcurrent conditions by a circuit breaker mounted on control transformer TRAN. Reset is manual.

GAS HEATING SYSTEM

General

The heat exchanger system consists of a gas valve feeding multiple inshot burners off a manifold. The burners fire into matching primary tubes. The primary tubes discharge into combustion plenum where gas flow converges into secondary tubes. The secondary tubes exit into the induced draft fan wheel inlet. The induced fan wheel discharges into a flue passage and flue gases exit out a flue hood on the side of the unit. The induced draft fan motor includes a Hall Effect sensor circuit that confirms adequate wheel speed via the Integrated Gas Control (IGC) board. Safety switches include a Rollout Switch (at the top of the burner compartment) and a limit switch (mounted through the fan deck, over the tubes). (See Fig. 29 and 30.)

Fig. 29 - Burner Section Details

Fig. 30 - Limit Switch Location

Fuel Types and Pressures

Natural Gas — The 48TC unit is factory-equipped for use with Natural Gas fuel at elevation under 2000 ft (610 m). See section Orifice Replacement for information in modifying this unit for installation at elevations above 2000 ft (610 m).

Gas line pressure entering the unit's main gas valve must be within specified ranges. Adjust unit gas regulator valve as required or consult local gas utility.

Table 5 – Natural Gas Supply Line Pressure Ranges

UNIT MODEL	UNIT SIZE	MIN	MAX
48TC	All	4.0 in. wg (996 Pa)	13.0 in. wg (3240 Pa)

Manifold pressure is factory-adjusted for NG fuel use. Adjust as required to obtain best flame characteristic.

Table 6 – Natural Gas Manifold Pressure Ranges

UNIT MODEL	UNIT SIZE	HIGH FIRE	LOW FIRE	RANGE
48TC	All	3.5 in. wg (872 Pa)	1.7 in. wg (423 Pa)	2.0 – 5.0 in. wg (Hi) (498 – 1245 Pa)

Liquid Propane — Accessory packages are available for field-installation that will convert the 48TC unit to operate with Liquid Propane (LP) fuels. These kits include new orifice spuds, new springs for gas valves and a supply line low pressure switch. See section on Orifice Replacement for details on orifice size selections.

Fuel line pressure entering unit gas valve must remain within specified range.

Table 7 – Liquid Propane Supply Line Pressure Ranges

UNIT MODEL	UNIT SIZE	MIN	MAX
48TC	All	11.0 in. wg (2740 Pa)	13.0 in. wg (3240 Pa)

Manifold pressure for LP fuel use must be adjusted to specified range. Follow instructions in the accessory kit to make initial readjustment.

Table 8 – Liquid Propane Manifold Pressure Ranges

UNIT MODEL	UNIT SIZE	HIGH FIRE	LOW FIRE
48TC	All	10.0 in. wg (2490 Pa)	5.0 in. wg (1245 Pa)

Supply Pressure Switch — The LP conversion kit includes a supply low pressure switch. The switch contacts (from terminal C to terminal NO) will open the gas valve power whenever the supply line pressure drops below the setpoint. (See Fig. 31 and 32.) If the low pressure remains open for 15 minutes during a call for heat, the IGC circuit will initiate a Ignition Fault (5 flashes) lockout. Reset of the low pressure switch is automatic on rise in supply line pressure. Reset of the IGC requires a recycle of unit power after the low pressure switch has closed.

48TC

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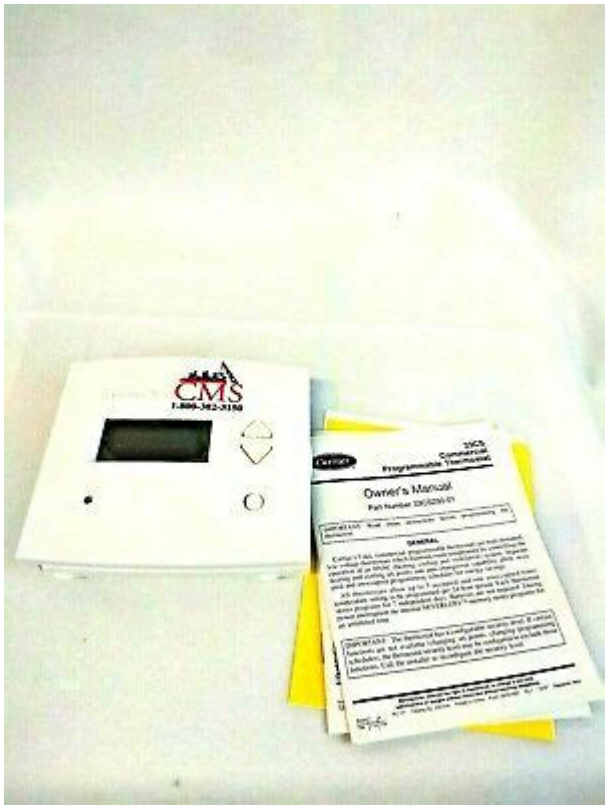

Speed Sensitive Ride Control same as or more rough terrain, enabling better load retention, increased productivity. 2015 Mercedes Benz Vito Owners Manual, 3709A Singer Manual, 1980 Perkins Diesel Repair Manual, Silva Life System Manual, Miele Service Manual Reload to refresh your session. Reload to refresh your session. Owner's Manual. Part Number 50QE900511WS. IMPORTANT Read entire instructions before programming the thermostat.Separate heating and coolingAll thermostats allow up to 3 occupied and one unoccupied. Each thermostat stores programs for 3 daily schedulesBatteries areOVERRIDE BUTTON — The Override button is used toThe Override period will be set atThirty minutes of override time willWhile in Override mode, the Override icon and the Occupied 1 icon will be displayed on the thermostat. The time ofHeat or Cool Indicator — A Heat or Cool indicator isFig. 2. The light will be red if the thermostat is in HeatingThermostat Front Panel Buttons — The thermostat has buttons on the front cover which are used to raise orSee Fig. 2. SET POINT BUTTONS — The UP ARROW and DOWN. ARROW buttons will raise or lower the current desired temperature set point. If the thermostat is in AUTO mode, pressingPressing the UP ARROW or. DOWN ARROW button in Cooling mode will adjust only theARROW button in Heating mode will adjust only the heating. Fig. 1 — Thermostat Display. MoManufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice and without incurring obligations.Printed in U.S.A. Form 50QE2SO. Pg 1Book 1 4.

Tab 5a 5a. The set points are adjustable with the UP ARROW and. DOWN ARROW keys during Override mode. NOTE If the thermostat is in Occupied mode and the OverrideKEYPAD LOCK — The thermostat has a keypad lockout feature which will not acknowledge front panel buttons until theTo disable or lock the keypad,While holding down the ModeThe thermostat is unlocked by performing the same procedure. Press and hold the Mode button.

While holding down the. Mode button, press the UP and DOWN ARROW buttonsMODE BUTTON OPERATION — The Mode button selectsIf OFF is selected, theAutoChangeover — When the thermostat mode is set to. AUTO, the thermostat will provide automatic changeover from. Heating to Cooling mode and Cooling to Heating mode whenThe thermostat does not needNOTE It is recommended that autochangeover mode not beIn these cases, select Heating or Cooling mode only. Fig. 3 — Setting the ClockThe unoccupied time period isTable 1 on page 3 as an aid to programming the daily schedules. PROGRAMMING MODE — To program the daily schedules, perform the following procedureMode and UP ARROW buttons. The Occupied 1 annunciator will appear on the thermostat display. See Fig. 4. Use the UP ARROW and DOWN ARROW buttons toThe thermostat can be set to 1, 2, or 3. After the numberUse the UP ARROW and DOWN ARROW buttons toThe range of acceptable values is 35 toFig. 4.Use the UP ARROW and DOWN ARROW buttons toThe range of acceptable values is 35 toFig. 4.Use the UP ARROW and DOWN ARROW buttons toThe range of acceptable values is 35 toUse the UP ARROW and DOWN ARROW buttons toThe range of acceptable values is 35 toUse the UP ARROWPress the Mode button when theTime is shown. Press the Mode button to continue. See. Fig. 5. Set Clock — The Set Clock function allows the user toClock mode. See Fig. 3. The current time will blink on and off. Press the UP ARROW or DOWN ARROW button until theHold down the buttons to quickly moveThe AM and PM annunciators willTo scroll through by hours only, pressARROW button. To ensure the schedules are properly followed, make sure that AM or PM is correct for the timeThe current day will blink onPress and hold the Mode and Override buttons for 2 seconds again to exit the Set Clock mode. Programming Thermostat Schedules —. Before programming the thermostat, plan the thermostat dailyEach day canUnoccupied, or 4 Occupied 1, Occupied 2, Occupied 3, Unoccupied time periods.

Each occupied time period has a startOccupied 1 and Unoccupied temperature set points are theOVERRIDING THE SCHEDULE — The schedule can beARROW buttons to change the desired temperature. The thermostat will use the new set point until the next scheduled timeTime is shown. Press the Mode button. Use the UP ARROWDOWN ARROW to turn the Occupied 1 period OFF forIf the Occupied 2 and 3Press the Mode button to continue.NOTE The thermostat will continue to follow the schedule until a new one is entered.Fig. 4 — Setting Occupied 1 Set Points. Fig. 5 — Start Time Display. Table 1 — Daily Schedule PlannerOccupied 3. Unoccupied. MondayFriday. Saturday. Sunday. NOTE The cooling temperature set point must be higher than the heating temperature set point.The Mode button selects the operating mode of the thermostat. If OFF is selected, the thermostat will not enter Heating or. Cooling mode. If HEAT is selected, the thermostat will onlyIf COOL is selected, the thermostat will only enter Cooling mode if the room temperature is above the coolingIf PROGRAM ON is selected,Clock Backup — In the event of a power loss, theFan Operation — If Fan On is selected, the fan will runIf Fan On is not selected, the fan will only operate duringEmergency Heat — Emergency heat is available onlyTo turn on emergency heat, pressWhile holding the Override button, press the UP button.To exit emergency heat, press and hold the Override button. While holding the Override button, press the UP button. During emergency heat, only OFF and HEAT modes are available. AutoChangeover — When the thermostat mode is setThe thermostat doesTwoStage Operation — The second stage of heat orManufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice and without incurring

obligations.Printed in U.S.A. Pg 8Book 1 4. INDEX Page SAFETY CONSIDERATIONS.1 INTRODUCTION.The configuration mode.

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For actual outputs, refer to Table TO TEST EMERGENCY HEAT heat pump systems only 2, making sure the correct row from the table is selected. To turn To test, press MODE button until EHEAT icon turns on. This will off, raise cooling set point above the room temperature. Cool Stage allow operation of auxiliary heat only. Raising set point above 1 and the triangle will turn off within a few seconds.Refer to indoor equipment Installation Instructions for proper setup. 3. HP and 2S model thermostat MUST have Dip SwitchC OFF when installed in heat pump applications. ThFifteenminute Cycle Timer This timer prevents the start of a heating or cooling cycle until at least 15 minutes after the last start of the same cycle. Its function is to assure that equipment is not cycled more than 4 times per. Ive decided to replace my two Carrier thermostats with Honeywell VisionPro thermostats TH8110U1003.I futzed around with the Carrier thermostats this morning trying to see how many wires were lurking behind the face and boy, those things are really on the wall. I tried to pop the face off to get access to the screws on the mounting plate, but I couldnt figure out how to get the front of it off. I did see some tabs at the bottom and pulled quite hard, but it didnt budge. I didnt want to pull too hard so as to break it. Would anyone have any ideas to get the face off Now. Ive done lots of stuff with transformers, phone systems and computer wiring, but have never actually swapped out a thermostat before. From what Ive read, I need to carefully label the wires as I disconnect them from the old thermostat and then reconnect them to the matching terminals on the new one. Is that all there is to it. Once I get the face off, I can give you more information as to how many wires are back there and what colors they are. Thanks a lot for any help you can provide.Maybe this may help. Once we know what we got, then I will help you go over this.

Is this tstat in a home or whereFrom the brochure, I can tell you that I definitely have the debonair slimline model. I would guess that we have the 33CS25001. The thermostat was installed around 1998 I believe. There are two of these thermostats, and they are located in a church.Install manual Looks like it snaps on, read page 2, step 10.I got the thermostats installed and theyre working great. Now, for one last thermostat The third Honeywell will replace a WhiteRogers thermostat, which is connected to a steam boiler. After removing the plate, heres what Im seeing Two wires from the wall one wire connected to the RH terminal, and the other connected to the W terminal. Its connected to RH and RC. Which terminals would I connect the wires from the wall to, and do I need this jumper wire. This thermostat is way old probably 10 years or more. One of the installer programs on the Honeywell 0170 I think asks which type of system I have. I made the selection for heat only with no fan. There was an option for a hot water boiler, but weve got steam, so I used the other option. Would this be right in my case.I got the thermostats installed and theyre working great. This thermostat is way old probably 10 years or more.I made the selection for heat only with no fan. There was an option for a hot water boiler, but weve got steam,I just want to verify that I understand you on the wiring The wire currently connected to the old therm. Thanks Jay. sorry for the dumb questions. Want to make sure I hook them up right and dont blow anything up in the process.A question, do you have an extra wire in the wall. If you dont have an extra wire, I suggest to make it a habbit every fall when you set the clocks back put in fresh battery. That way you wont come into a cold church if the battery did go dead in the winter.The good news is that I do have it working. Its maintaining temperature well, and the boiler starts when the temperature is increased.

I did find an extra wire in the wall I found two wires to be exact. The light that stayed on dimly on the other stats to indicate it was receiving voltage did not stay on with this one. Should I try the other wire, or perhaps these two wires were rolled back into the wall for a reason! The other thing thats REALLY weird is the program schedule. The stat is set to call for increased heat only on Sunday. At 12am, I have WAKE set to 12 midnight, and the temp changes from 48 to 63. Then, at 12

noon after services, LEAVE is set to 48 again. Those are the only two set for Sunday. I deleted all of the other programs for MondaySaturday, so there is nothing else active for the rest of the week except that Sunday program. From reading the manual, the stat is supposed to skip or ignore days that are not programmed, so the stat should stay at 48 until 12 midnight on Sunday morning. As soon as I exit schedule programming, the stat calls for heat, the temp. I thought I had forgotten to turn off the Adaptive Recovery function, but after checking 0530, it was set to 0 off, so no dice there. So I played around with the Sunday schedule a bit. I cant figure out why the stat is calling for heating at 63 on TUESDAY.Then, at 12 noon after services, LEAVE is set to 48 again.The wires come through the ceiling in conduit, but Ill look at where they connect to the relays to see if I find a wire connected to a common terminal. When calling for heat at 63 degrees, it takes approximately 810 hours for the church to reach this temperature from 48 degrees. If its really cold outside, that can extend to 12 hours. In this situation, adaptive recovery isnt a great option I would much rather have it begin the program at the time I specify and know that when our service begins, the temperature is where I want it to be. I reviewed the schedule again, and there are no programs set for any days other than Sunday.

Perhaps its a fluky thing and I can try and reset the stat to see if it still behaves in the same way. There is nothing set for Tuesday today, yet its still calling for heat and set at 63 when running on schedule. Thanks Jay, MichaelIf its really cold outside, that can extend to 12 hours. In this situation, adaptive recovery isnt a great option I would much rather have it begin the program at the time I specify and know that when our service begins, the temperature is where I want it to be. It learns how long it takes to recover, and will start the furnace early to be at temp at the time you want it to be. So when the weather gets mild, it wont start way early wasting gas to warm the building. When the temps were in the 30s, it will start about half hour early. Thats the ideal of the AR, it starts early as needed and help save energy. Perhaps its a fluky thing and I can try and reset the stat to see if it still behaves in the same way. There is nothing set for Tuesday today, yet its still calling for heat and set at 63 when running on schedule.I may just end up programming each day, but just leaving the temp.Well see how that does. Thanks again, Jay.My worst fear would be to have it set at 63 at our starting time, and its only 52 because the stat didnt kick in early enough to heat the church! MichaelIt learns how long it takes. What are the other furnaces, forced airA few updates I decided to program every day, and just leave the temp.Ill do that and see how it works out. The church has two steam boilers.One is several years older than the other, so were trying to catch the other one up so they have about the same use. They work very well, but it just takes so darn long to bring the church up from 48. I keep it that low in hopes of saving a bit on our LP bill, and because the church is really only used on Sunday. To keep it at 63 all week long with no use and no one inside is just wasting LP IMHO.

I did go into the basement to look for a black wire, but I cant really see any wires down there at the boiler control units. Theres some red wires there that connect to another point on the boiler itself, but nothing thats black. Theres some flexible conduit that goes to a switch on both of the boilers, and I wonder if that wire is in there maybe MichaelTheres some red wires there that connect to another point on the boiler itself, but nothing thats black. Theres some flexible conduit that goes to a switch on both of the boilers, and I wonder if that wire is in there maybeThe first two thermostats were installed at one church, and youre right, they do have forced air heating and cooling. Ill take a picture of the relays at the boiler itself to see if that might help at all. I have the thermostat set to call for heat at 63 on Friday morning, so well see how it does. Thanks again for your continued assistance, Jay really appreciate it.Those installs went great with no problems.Are you a pastor, or the handyman for the Church After a couple of runs, the tstat will figure it all out.The new stats are working very well I arrived this morning for Mass, and both furnaces were off and the building was at the desired temperature. Its a new building 1998 and heats more efficiently with the forced air. The other church is an old building. 1908. With the steam boilers, it takes a bit longer to heat things

up. When I checked the stat this morning, I had asked for it to be 63 by 915am, and at 915, it was 53. I expected that as I know the stat must learn how long it takes to get from one extreme to the other. This morning was a good test because it was 2 above zero!! Will take some pictures in the control room later today and post for you to look at. Im the pastor, the handyman, the bookkeeper, the shoveler, and whatever else the day might throw at me!! MichaelWhen I checked the stat this morning, I had asked for it to be 63 by 915am, and at 915, it was 53.

This morning was a good test because it was 2 above zero!! This an old Country Church. I always love old Churches. They just dont build them like that anymore now days. It may take a couple of runs for the tstat to get eveything in tune for starting time. I looked through the forum but didnt find anything. After some trouble somehow reset to factory default settings causing the furnace to operate strangely the installer replaced it I dont recall the current model. The original tstat displayed the current stage and fault notices, but the current tstat does not just red lights on top, which I have no clue what they mean and I miss that feature. Also, we are gone a significant portion of the day, so I am wondering if I would save some energy by going with a programmable tstat. I also have a honeywell humidifier installed with separate humidistat on the return duct which would be nice to control from the tstat upstairs. Summary Id like to replace my current tstat and would like one which displays the current stage and faults. Id also like to get opinions on using programmable tstats with geothermal. I see the IAQ referenced a lot on these forums, but it seems like a little more than I need. Any suggestions or opinions are appreciated. Thanks! We welcome your comments andAll rights reserved. You may freely linkView our Privacy Policy here. Understand the signal words DANGER, WARNING, and. CAUTION. These words When Installing this Product 1. Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition. 2. commercial programmable thermostat 33cs250 01 thermostat pdf manual and other hvac zone controllers from carrier enterprise crstat3c001a00 commercial.Commercial NonCommunicating Programmable Thermostat. Startup, And Operating Instructions Manual Page 63 How to Set and Reset the Service Filter How.