

ROBERTS GORDON®

BZC 700

CONTROLLER

Operation Manual



⚠ WARNING

Improper installation, adjustment, alteration, service or maintenance can result in death, injury or property damage. Read the installation and operation manuals thoroughly before installing or servicing this equipment.

Installation must be done by an electrician qualified in the installation of control systems for heating equipment.

Installer

Please take the time to read and understand these instructions prior to any installation. Installer must give a copy of this manual to the owner.

Owner

Keep this manual in a safe place to provide your serviceman with information should it become necessary.



Roberts-Gordon
1250 William Street
P.O. Box 44
Buffalo, New York 14240-0044
Telephone: 716.852.4400
Fax: 716.852.0854
Toll Free: 800.828.7450

<http://www.rg-inc.com>

Roberts-Gordon Canada Inc.
241 South Service Road West
Grimsby, Ontario L3M 1Y7 Canada
Telephone: 905.945.5403
Fax: 905.945.0511

Roberts-Gordon
Oxford Street
Bilston, West Midlands WV14 7EG UK
Telephone: +44 (0) 1902 494425
Fax: +44 (0) 1902 403200

Quality in Any Language™

© Copyright 2000 Roberts-Gordon

10071600NA Original Issue 01/00

▶TABLE OF CONTENTS

1. Introduction1

 1.1 What is a ROBERTS GORDON®
 BZC Controller1

 1.2 General Requirements1

 1.3 Safety1

2. Specifications2

 2.1 Material Specification2

 2.2 Electrical Specification2

 2.3 Preset Default Factory Settings2

 2.4 Keypad Layout2

3. Viewing Screen Displays4

 3.1 Information Screens4

 3.2 Temperatures Sensed by Zone4

 3.3 Hours Run4

4. Programming Options5

 4.1 Correcting Wrong Entries5

 4.2 Temperature Setting5

 4.3 Switching Times5

 4.4 Manual Override Temperature6

 4.5 Manual Override Time6

 4.6 Holiday Periods7

 4.7 Holiday Mode7

 4.8 Change the Current Time and Date8

 4.9 Seasonal Time Adjustment8

 4.10 How to Enter Zone Titles8

 4.11 How to Clear Memory8

 4.12 Changing the Security Code9

 4.13 Changing the Override Limits9

**5. The ROBERTS GORDON® BZC 700
 Controller Warranty11**

▶TABLE OF FIGURES

Figure 1 Keypad Layout2

Figure 2 ROBERTS GORDON® BZC Controller Quick
 Programming Guide3

© 2000 ROBERTS GORDON

All rights reserved. No part of this work covered by the copyrights herein may be reproduced or copied in any form or by any means - graphic, electronic, or mechanical, including photocopying, recording, taping or information storage and retrieval systems - without the written permission of Roberts-Gordon.

►SECTION 1: INTRODUCTION

1.1 WHAT IS A ROBERTS GORDON® BZC CONTROLLER?

The ROBERTS GORDON® BZC 700 is a micro processor based controller designed for the most efficient control of CORAYVAC®, VANTAGE®, GORDONRAY® and CARIBE® heaters.

The control is capable of giving control outputs from 9 relays, 7 of which afford heating zone control capabilities. The control also features 8 inputs which are used for signal condition monitoring.

1.2 GENERAL REQUIREMENTS

The ROBERTS GORDON® BZC series of controllers are supplied pre-configured for their application and only for use with ROBERTS GORDON® infrared heating equipment. Failure to comply with the installation instructions and configuration may invalidate the limited warranty set out on *Page 11, Section 5*.

Mount the ROBERTS GORDON® BZC Controller Quick Programming Guide next to the controller for easy reference of programming steps. See *Figure 2, Page 3, Section 2*.

1.3 SAFETY



Your Safety is Important to Us! This symbol is used throughout the manual to notify you of possible fire, electrical or burn hazards. Please pay special attention when reading and following the warnings in these sections.

⚠ WARNING

Installation, Service and Annual Inspection of controller must be done by an electrician qualified in the installation of control systems for heating equipment.

Installation, Service and Annual Inspection must be done by a contractor qualified in the installation and service of gas-fired heating equipment.

Read this manual carefully before installation, operation, or service of this equipment.

Failure to follow these instructions can result in death, injury or property damage.

For optimum heater performance and safe heating conditions, inspect and maintain heater(s) before every heating season and as necessary. Also, know and maintain heater clearances to combustibles, see heater Installation, Operation and Service manual for further details. If you require additional manuals, contact your ROBERTS GORDON® independent distributor or Roberts-Gordon at (716) 852-4400 or (800) 828-7450 in the U.S., (905) 945-5403 in Canada or at www.rg-inc.com.

►SECTION 2: SPECIFICATIONS

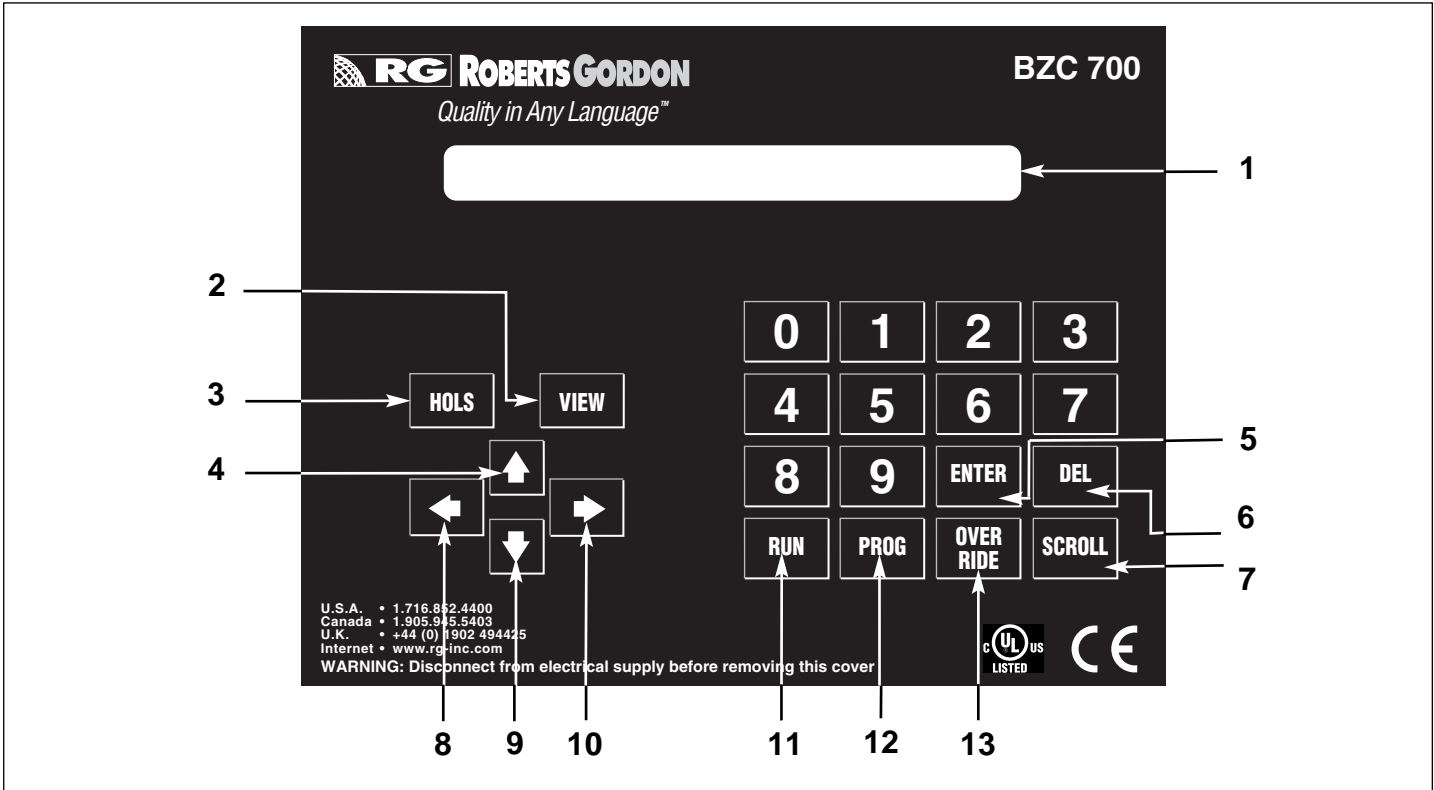


FIGURE 1 - Keypad Layout

2.1 MATERIAL SPECIFICATION

Enclosure Material: ABS (UL 94-5VA Rated)
 Weight: 3.5 lbs (1.6 Kg)
 Dimensions: 7.9" x 2.4" x 11.4"
 199 x 62 x 290 mm
 Protection: Rating IP20

2.2 ELECTRICAL SPECIFICATION

Supply: 120/230V AC ± 10% 50/60Hz
 Relay Outputs: Single pole 4.4A 120V AC
 (resistive)
 Battery Back-up: Lithium cell maintains data
 memory and time clock for 10
 years minimum at 77°F (25°C)

2.3 PRESET DEFAULT FACTORY SETTINGS

Temperature Settings:
 Day Temperature68°F (20°C)
 Night Temperature58°F (04°C)
 Override Up Temperature5°F (02°C)
 Override Down Temperature18°F (04°C)

Time Settings:
 Switching TimesNONE
 Override Limit8 hours
 Maximum Pre-heat Hours3 hours
 Date Formatdd/mm/yy

Optional Settings:
 HILO Switching Differential0°F
 Security Codes:
 Operators.....0000

2.4 KEYPAD LAYOUT

1. LCD Readout
2. View Technical Information
3. Manual Holiday Mode Setting
4. Increase Temperature Set Point
5. Enter Information
6. Delete
7. Scroll Forward
8. Scroll Backward
9. Decrease Temperature Set Point
10. Scroll Forward
11. Return to Run Mode
12. Enter Program Mode
13. Time Override a Zone



ROBERTS GORDON® BZC Controller Quick Programming Guide

Read each section carefully before following the programming instructions.

1. DAY and NIGHT Temperature Settings

- 1.1 From the "Normal Run Mode".
- 1.2 Press PROG. Enter the Operators Code 0000 - Press ENTER.
- 1.3 Choose 1 for Data.
- 1.4 Enter the Zone Number you wish to alter.
- 1.5 Enter the required DAY temperature (in degrees C or F as prompted). Enter new temperature using the numeric keypad - Press ENTER.
- 1.6 Enter the required NIGHT temperature (in degrees C or F as prompted). Enter new temperature using the numeric keypad - Press ENTER.
- 1.7 The screen will now display switching times. If you wish to alter switching times, go to 2.6.
- 1.8 To accept the settings entered and exit the programming mode, press RUN to return to the menu.
- 1.9 Press RUN again to return to the "Normal Run Mode".

2. Switching Times

- 2.1 From the "Normal Run Mode".
- 2.2 Press PROG. Enter the Operators Code 0000 - Press ENTER.
- 2.3 Choose 1 for Data.
- 2.4 Enter the zone number you wish to alter.
- 2.5 Accept DAY and NIGHT temperatures by pressing ENTER (refer to 1.5 if you wish to alter the temperatures).

NOTE: Each zone must be programmed individually for up to four ON/OFF periods per day. Each period is defined by START and END times.
24 hour clock must be used throughout.

- To set 1 time period only.
- 2.6 Enter the Start Time for period 1. e.g. 08:00 - Press ENTER.
 - 2.7 Enter the End Time for period 1. e.g. 17:00 - Press ENTER.
 - 2.8 Unused periods must display start: 00.00 end: 00.00.
 - 2.9 Periods 1 to 4 programmed for Monday can be copied to Tuesday by pressing the PROG key when Tuesday period 1 is displayed. This can be repeated for each subsequent day.
 - 2.10 To accept the settings entered and to return to the Data Menu at any point, press RUN.
 - 2.11 Press RUN again to return to the "Normal Run Mode".

3. Override Time

- 3.1 From the "Normal Run Mode".
- 3.2 Press the OVERRIDE key to enter the Override program. Enter a security code if required.
- 3.3 Enter the zone you wish to put into an Override.
- 3.4 Select 1 ON or 2 OFF.

NOTE: 1) ON - heating in the zone will operate to the required DAY temperature.
2) OFF - heating in the zone will be in the NIGHT set back condition.

- 3.5 Enter the number of hours you wish to override. e.g. :01
The preset maximum number of hours is displayed in brackets.
- 3.6 Press ENTER.
- 3.7 When selection is complete, scrolling to the next screen (using the scroll key) in run mode will activate the override.
- 3.8 To end override before the set time is reached, repeat steps 3.1 to 3.5 and set the override Period to :00.

4. Override Temperature

- 4.1 From the "Normal Run Mode".
- 4.2 Pressing the UP and DOWN ARROW KEYS allows you to increase or decrease the set point for any given zone within pre-set limits.

5. Current Time and Date

- 5.1 From the "Normal Run Mode".
- 5.2 Press PROG. Enter the Operators Code 0000 - Press ENTER.
- 5.3 Choose 2 for Time.
- 5.4 Select the required date format. Press ENTER to accept this setting.
- 5.5 The current time will be displayed. Enter a new time, using 24 hour clock notation.
- 5.6 Press ENTER.
- 5.7 The current Date will be displayed. Enter a new date using the format selected.
- 5.8 Press ENTER.
The Control will be returned to the Data Menu.
- 5.9 Press RUN to return to the "Normal Run Mode".

6. Daylight Savings Time Adjustment

- 6.1 From the "Normal Run Mode".
- 6.2 When adjustment is required depress the "1" key for a period of 5 seconds. Adjustment will be made automatically.

7. Holiday Periods

- 7.1 From the "Normal Run Mode".
- 7.2 Press PROG. Enter the Operators Code 0000 - Press ENTER.
- 7.3 Choose 4 for Holidays.
The control can be programmed for 5 holiday periods.
- 7.4 Enter a start date. Enter a date using the date format selected (e.g. dd/mm/yy or mm/dd/yy) - Press ENTER.
- 7.5 Enter the length in number of days. e.g. 05. - Press ENTER.
- 7.6 Repeat this for each holiday period to be set.
- 7.7 The Control will be returned to the Data Menu.
- 7.8 Press RUN to return to the "Normal Run Mode"

NOTE: During the holiday period all the zones will operate at NIGHT set back temperature.

8. Further Information

Further programming and set up instructions can be found in the Operation, Installation and Service manuals listed below:

8.1 North America 120V

Part Number	Manual
10031600NA	BZC100 Operation manual
10011601NA	BZC100 Installation and Service manual
10031600NA	BZC300 Operation manual
10031601NA	BZC300 Installation and Service manual
10071600NA	BZC700 Operation manual
10071601NA	BZC700 Installation and Service manual

8.2 Europe 230V

Part Number	Manual
10031600UK	BZC100 Operation manual
10011601UK	BZC100 Installation and Service manual
10031600UK	BZC300 Operation manual
10031601UK	BZC300 Installation and Service manual
10071600UK	BZC700 Operation manual
10071601UK	BZC700 Installation and Service manual

Roberts-Gordon

1250 William Street, PO Box 44, Buffalo, NY, 14240-0044, USA.
Tel: 716.852.4400 Fax: 716.852.0854 Toll Free: 800.828.7450

Roberts-Gordon Canada Inc.

241 South Service Road West, Grimsby, Ontario, L3M 1Y7, Canada.
Tel: 905.945.5403 Fax: 905.945.0511

Roberts-Gordon

Oxford Street, Bilston, West Midlands WV14 7EG UK
Tel: +44 (0) 1902 494425 Fax: +44 (0) 1902 403200

►SECTION 4: PROGRAMMING OPTIONS

The display of temperature on the screens in these programming instructions is in Fahrenheit.

The following instructions cover the programming options for normal daily use. Please consult the ROBERTS GORDON® BZC 700 Controller Installation Manual for initial set up information.

4.1 CORRECTING WRONG ENTRIES

- 4.1.1 If a wrong entry is made during the programming sequence, continue following the instructions until the prompt returns to the menu.
- 4.1.2 The entry can be corrected by repeating the programming sequence from the beginning.
- 4.1.3 Skip each correct screen by pressing ENTER.
- 4.1.4 When the incorrect entry is reached, type in the correct entry and press ENTER. Continue pressing ENTER to skip any following correct screens until the instructions direct you to return to the menu screen.

4.2 TEMPERATURE SETTING

There are two temperature settings for each zone. One setting is for the DAY temperature. This will be the set point temperature when the switching time is ON. One setting is for the NIGHT temperature. This will be the set point temperature when the switching time is OFF.

Default Temperature Settings:

Day Temperature	68°F or 20°C
Night Temperature	58°F or 04°C

- 4.2.1 Press PROG and enter the code 0000. Press ENTER. Enter 1 for DATA. Enter the zone number you wish to alter. Each zone can have individual time and temperature settings, therefore this procedure must be repeated for each zone to be altered.
- 4.2.2 The screen will now show:

ENTER THE REQUIRED 'DAY' TEMPERATURE
(OCCUPANCY PERIOD, e.g. 68°F) : 68

Press two digits for the required temperature and then press ENTER.

- 4.2.3 The screen will now show:

ENTER THE REQUIRED 'NIGHT' TEMPERATURE
(SETBACK OR FROST, e.g. 58°F) : 58

Press two digits for the required temperature and then press ENTER.

- 4.2.4 The screen will now display switching times. If you wish to alter switching times, go to *Page 5, Section 4.3.2*.
- 4.2.5 To accept the settings and return to the DATA menu, press RUN.
- 4.2.6 To alter the set points for further zones, repeat the steps on *Page 5, Sections 4.2.1 to 4.2.3*.
- 4.2.7 If any mistakes were made during the programming sequence, see *Page 5, Section 4.1* for corrective action.

When all the zones are correctly programmed, return to Normal (Run) Mode by pressing RUN.

4.3 SWITCHING TIMES

- 4.3.1 Press PROG and enter the code 0000. Press ENTER. Enter 1 for DATA. Enter the zone number you wish to alter. Press ENTER to accept DAY and NIGHT temperatures. To alter the temperatures, see *Page 5, Section 4.2*.
- 4.3.2 The screen will now show:

ENTER SWITCHING TIMES FOR PERIOD 1 MON
START: 00.00 END: 00.00

Enter required switching times for Monday period 1. There are four switching periods per day for each individual zone.

- 4.3.3 The following example allows for one switching period per day.

Monday to Friday	START 08:00	END 17:00
Saturday	START 08:00	END 12:00
Sunday	NO SWITCHING PERIOD	

- 4.3.4 The screen will now show:

ENTER SWITCHING TIMES FOR PERIOD 1 MON
START: 00.00 END: 00.00

Enter start time 0800.

Use 24 hour clock notation for the start of DAY TEMPERATURE (mistakes may be rectified by pressing DEL) and then press ENTER.

- NOTE:** When entering a start time, it is not necessary to allow a warm-up period prior to the start of the required day temperature. This is automatically calculated by the ROBERTS GORDON® BZC 700 Controller giving the required temperature at the time set.

4.3.5 The screen will now show:

```
ENTER SWITCHING TIMES FOR PERIOD 1 MON
START:      08.00  END:  00.00
```

Enter end time 1700.

The screen will now show:

```
ENTER SWITCHING TIMES FOR PERIOD 1 MON
START:      08.00  END:  17.00
```

Press ENTER.

4.3.6 The screen will now show:

```
ENTER SWITCHING TIMES FOR PERIOD 2 MON
START:      00.00  END:  00.00
```

Press ENTER, to skip without altering the setting.

The reason for leaving the start and end times blank is because in this example we are only using one switching period per day.

Repeat as above for periods 3 and 4 for Monday.

4.3.7 The screen will now show:

```
ENTER SWITCHING TIMES FOR PERIOD 1 TUE
START:      00.00  END:  00.00
```

Pressing the PROG key at this point will copy all of Monday's switching times to Tuesday.

4.3.8 The screen will now show:

```
ENTER SWITCHING TIMES FOR PERIOD 1 WED
START:      00.00  END:  00.00
```

Pressing the PROG key at this point will copy the times from Tuesday to Wednesday. Repeat this for Thursday and Friday.

4.3.9 The screen will now show:

```
ENTER SWITCHING TIMES FOR PERIOD 1 SAT
START:      00.00  END:  00.00
```

For Saturday, the switching period is different from the weekday settings. The new settings must be entered.

Enter start time 0800, Press ENTER.

The screen will now show:

```
ENTER SWITCHING TIMES FOR PERIOD 1 SAT
START:      08.00  END:  00.00
```

Enter end time 1200.

The screen will now show:

```
ENTER SWITCHING TIMES FOR PERIOD 1 SAT
START:      08.00  END:  12.00
```

Press ENTER.

Leave the start and end times blank for periods 2, 3 and 4 because in this example we are only using one switching period on Saturday.

As no switching times are required for Sunday, press RUN to save the settings and return to the menu.

The process described above must now be repeated for each heating zone to be altered.

4.3.10 If any mistakes were made during the programming sequence, see *Page 5, Section 4.1* for corrective action.

4.3.11 Press RUN to return to Normal (Run) Mode.

NOTE: If remote time enable is to be used, leave all switching periods set to 00.00.

4.4 MANUAL OVERRIDE TEMPERATURE

4.4.1 To manually override temperature, first use the left and right arrow keys to display the zone you wish to alter.

Example for zone 1 is shown below:

```
HEATING ZONE NO1 (70) : 67 STATUS:DAY
HEAT ON
```

The set point temperature appears in the brackets.

4.4.2 Pressing the UP and DOWN ARROW KEYS will increase or decrease the set point (in increments of 1°) for the displayed zone within pre-set limits.

NOTE: Changing the set point for the daytime temperature manually will only apply to the current switching period.

4.5 MANUAL OVERRIDE TIME

4.5.1 From the Normal (Run) Mode, press the OVERRIDE key to enter the override program. Enter a security code if prompted.

Override will allow the heating system to be switched to day or night mode manually.

4.5.2 The screen will now show:

PLEASE ENTER THE NUMBER OF THE ZONE YOU WISH TO OVERRIDE (1-7)

Select the zone required to be overridden.

4.5.3 The screen will now show:

DO YOU WANT TO OVERRIDE THE ZONE
1) ON (DAY TEMP.) OR 2) OFF (NIGHT TEMP.)

Press 1 to select on (day settings) or 2 to select off (night settings).

4.5.4 The screen will now show:

PLEASE ENTER THE REQUIRED OVERRIDE PERIOD (08 HOURS MAXIMUM) : 00

Enter the number of hours you wish to override the zone for example :01.

The number in brackets is the maximum number in hours of the override period. This figure is preset and can only be altered by an authorized user.

4.5.5 The DEL key may be used to correct mistakes, press ENTER when correct. You will now see the operating status for the zone change to either OR N01 (night status) or OR D01 (day status).

4.5.6 When selection is complete, scrolling to the next screen in run mode will activate the override command.

4.5.7 To end override before the set time is reached, re-enter override mode and set the override period to :00.

4.6 HOLIDAY PERIODS

There are two options available on the ROBERTS GORDON® BZC 700 Controller for setting holiday periods. The first is to pre-program known holiday periods. This sequence is described below. The second described under HOLIDAY MODE can be used to manually set holiday periods.

4.6.1 From the Normal (Run) Mode:

Press PROG and enter the code 0000.
Press ENTER.
Enter 4 for HOLS.

Five periods can be preset by entering the start date and then the number of days the holiday lasts.

4.6.2 The screen will now show:

PLEASE ENTER HOLIDAY PERIOD NUMBER 1
START DATE: 00 - 00 - 00 LENGTH: 00

Enter the date in the format selected under the time function (dd-mm-yy or mm-dd-yy).

Enter length (number of days duration of holiday).

4.6.3 The DEL key may be used to correct mistakes. Press ENTER when correct.

4.6.4 If any mistakes were made during the programming sequence, see *Page 5, Section 4.1* for corrective action.

4.6.5 Press RUN to return to Normal (Run) Mode.

NOTE: If ENTER is pressed at any display, then the current setting will be retained.

NOTE: To cancel a holiday period in progress, repeat 4.6.1 to 4.6.3 changing the period in progress to 00 length.

4.7 HOLIDAY MODE

4.7.1 Pressing HOLS will give you the option to manually initiate a new holiday period.

4.7.2 The screen will now show:

ARE YOU SURE YOU WANT TO SWITCH ON
HOLIDAY MODE (PRESS ENTER FOR YES)

Pressing ENTER at this point will switch all zones to the night setback temperature.

Pressing any other key will return you to the status screens without starting a holiday period.

4.7.3 When the holiday period is on, the zone status screens will show:

HEATING ZONE NO1 (58) : 62 STATUS: HOLS
HEAT OFF

4.7.4 At the end of the holiday period, press the HOLS key to return to normal switching times.

The screen will now show:

ARE YOU SURE YOU WANT TO SWITCH OFF
HOLIDAY MODE (PRESS ENTER FOR YES)

Press ENTER to end the holiday period.

4.8 CHANGE THE CURRENT TIME AND DATE

4.8.1 Press PROG and enter the code 0000.
Press ENTER.
Enter 2 for TIME.

4.8.2 The screen will now show:

```
ENTER THE DATE FORMAT FOR THE DISPLAY
d-m-y <00>      m-d-y <01>      :00
```

Enter 01 and press ENTER to change the date format to month/day/year. Alternatively, enter 00 and press ENTER to change the date format to day/month/year.

4.8.3 The screen will now show:

```
THE CLOCK IS NOW SET AT   : 14: 15
PLEASE ENTER A NEW TIME  :
```

Enter a new time in (Hours: Minutes) in 24 hour clock notation.

Mistakes may be rectified by pressing DEL. Press ENTER when new time is correct.

4.8.4 The screen will now show:

```
THE DATE IS NOW SET AT   : 12 - 10 - 10
PLEASE ENTER A NEW DATE :   -   -
```

Dates must be entered in the format selected. See *Page 8, Section 4.8.2*. Press ENTER when correct and the display will return to the Set-Up Menu.

4.8.5 Press RUN to return to Normal (Run) Mode.

If any mistakes were made during the programming sequence, see *Page 5, Section 4.1* for corrective action.

4.9 SEASONAL TIME ADJUSTMENT

4.9.1 Pressing the number one button and holding it down for 5 seconds during the months of March or April and October will give automatic seasonal correction.

4.10 HOW TO ENTER ZONE TITLES

4.10.1 Press PROG and enter the code 1805.
Press ENTER.
Enter 2 for TITLES.

4.10.2 The screen will now show:

```
1) ZONE TITLE 2) ALARM 3) RELAY TITLE
PRESS 1 - 3 FOR REQUIRED OPTION
```

Enter 1 for zone title. You will be asked for the zone number you want to alter.

4.10.3 The screen will now show:

```
0123456789:; (=)?@ABCDEFGHIJKLMN O PQRSTU VW
XYZ  ENTER THE TITLE      HEATING ZONE NO1
```

If the title that is displayed is correct, pressing ENTER will return you to the main menu. If the title is incorrect, using the left and right ARROW KEYS to select a letter and the ENTER key will enable you to build up a new title. The maximum number of characters is 16. A space is entered by selecting the blank after the Z.

4.10.4 Press RUN to return to Normal (Run) Mode.

4.10.5 If any mistakes were made during the programming sequence, see *Page 5, Section 4.1* for corrective action.

4.11 HOW TO CLEAR MEMORY

This facility will clear the logs of the hours run and monitor data.

4.11.1 Press PROG and enter the code 1805.
Press ENTER.
Enter 6 for CLEAR MONITOR.

4.11.2 The screen will now show:

```
THIS WILL DELETE ALL LOGGING AND ALARM
MEMORY !!! PRESS (DEL) TO CONTINUE
```

Press the DEL key and a prompt for the passcode will appear. Pressing any other key will abort the process.

4.11.3 The screen will now show:

```
A SECURITY CODE IS REQUIRED TO PROGRAM
THIS UNIT. Please enter the code: 0376
```

Enter the code 0376 and press ENTER.

4.11.4 Press RUN to return to Normal (Run) Mode.

4.12 CHANGING THE SECURITY CODE

4.12.1 Press PROG and enter the code 0000.
Press ENTER.
Enter 3 for CODE.

4.12.2 This is the section used to set the security code.

The screen will now show:

```
WHICH CODE DO YOU WISH TO ALTER?
1) MANAGER CODE   2) OVERRIDE CODE
```

Pressing '1' will allow you to change the Manager Code (*Page 9, Section 4.12.3*) for programming the unit. Pressing '2' will allow you to change Override Code (*Page 9, Section 4.12.5*).

4.12.3 Manager Code

The screen will now show:

```
THE OLD 'USER' SECURITY CODE WAS : 0000
PLEASE ENTER A NEW CODE (4 DIGITS) : 0000
```

Enter 4 digits for the new code (only asterisks will be shown when entering code).

4.12.4 Press RUN to return to Normal (Run) Mode.

4.12.5 Override Code

The screen will now show:

```
ENABLE OVERRIDE CODE?
<00> NO      <01> YES           :01
```

Selecting '00' here will allow you to override the time without needing a code. Selecting '01' will not allow you to override the time without knowing the security code.

4.12.6 Enter a new four digit code.

4.12.7 Press RUN to return to Normal (Run) Mode.

NOTE: In the event that the code is forgotten, contact your ROBERTS GORDON® independent distributor or Roberts-Gordon at (716) 852-4400 or (800) 828-7450 in the U.S., (905) 945-5403 in Canada or at www.rg-inc.com.

4.13 CHANGING THE OVERRIDE LIMITS

4.13.1 Press PROG and enter the code 1805.
Press ENTER.
Enter 1 for SETUP.

4.13.2 These are the settings for limit of the override for both time and temperature.

The screen will now show:

```
ENTER CALIBRATION SETTING NUMBER 1 (10)
THE SENSOR IS NOW READING           :65 F
```

Press ENTER to skip the calibration screens. There will be one displayed for each zone. The calibration of the sensors will be conducted by installer.

4.13.3 The screen will now show:

```
ENTER THE MAXIMUM OVERRIDE HOURS FOR
THE OVERRIDE BUTTON (00 = DISABLED) :08
```

The default maximum override of 8 hours is displayed. To alter the number, enter the new number and press ENTER.

4.13.4 The screen will now show:

```
ENTER THE TEMPERATURE OFFSET UPPER LIMIT
YOU WANT FROM THE UP BUTTON. :05
```

The default upper offset limit of 5° Fahrenheit is displayed. To alter the number, enter the new number and press ENTER.

4.13.5 The screen will now show:

```
ENTER THE TEMPERATURE OFFSET UPPER LIMIT
YOU WANT FROM THE DOWN BUTTON. :18
```

The default upper offset limit of 18° Fahrenheit is displayed. To alter the number, enter the new number and press ENTER.

4.13.6 If any mistakes were made during the programming sequence, see *Page 5, Section 4.1* for corrective action.

4.13.7 At the prompt for a zone to alter, press RUN to return to the menu.

4.13.8 Press RUN again to return to Normal (Run) Mode from the menu.

►SECTION 5: THE ROBERTS GORDON® BZC 700 CONTROLLER WARRANTY

ROBERTS-GORDON WILL PAY FOR:

For 36 months from the date of purchase by the original consumer or 42 months from date of shipment by Roberts-Gordon, whichever occurs first: we will provide, free of charge, replacement parts for any part of the ROBERTS GORDON® BZC 700 Controller that fails because of a manufacturing or material defect.

ROBERTS GORDON® replacement parts are warranted for the period of the original ROBERTS GORDON® BZC 700 Controller Warranty.

ROBERTS-GORDON WILL NOT PAY FOR:

Service trips, service calls and labor charges.

Shipment of replacement parts.

Damage due to:

Failure to install, operate or maintain the ROBERTS GORDON® BZC 700 Controller as directed in Installation and Operation Manuals. You must follow requirements printed in these manuals.

Misuse, abuse, neglect or modification of the ROBERTS GORDON® BZC 700 Controller in any way.

Improper service, use of replacement parts or accessories that are not specified by Roberts-Gordon.

Improper installation, or any relocation of the ROBERTS GORDON® BZC 700 Controller after initial installation.

Incorrect supply, accident, fire, flood, acts of God or other casualty.

Use of the ROBERTS GORDON® BZC 700 Controller for other than its intended purpose.

Use of the ROBERTS GORDON® BZC 700 Controller in a corrosive atmosphere or any atmosphere containing contaminants.

Shipping. Claim must be filed with carrier.

WARRANTY IS VOID IF:

The ROBERTS GORDON® BZC 700 Controller is not installed by a electrician qualified in the installation of control systems for heating equipment.

You cannot prove original purchase date and required annual maintenance history.

The data plate and/or serial number are removed, defaced, modified or altered in any way.

The ROBERTS GORDON® BZC 700 Controller is transferred. This warranty is nontransferable.

Roberts-Gordon is not permitted to inspect the damaged ROBERTS GORDON® BZC 700 Controller and/or component parts.

READ YOUR INSTALLATION MANUAL

If you have questions about your ROBERTS GORDON® BZC 700 Controller, contact your installing professional. Should you need replacement parts or have additional questions, call or write Roberts-Gordon:

U.S.A.

1250 William Street
P.O. Box 44
Buffalo, New York 14240-0044
Telephone: 716.852.4400
Fax: 716.852.0854

Canada

241 South Service Road, West
Grimsby, Ontario L3M 1Y7
Telephone: 905.945.5403
Fax: 905.945.0511

On the web at:

www.rg-inc.com

Roberts-Gordon's liability, and your exclusive remedy, under this warranty or any implied warranty (including the implied warranties of merchantability and fitness for a particular purpose) is limited to providing replacement parts during the term of this warranty. Some jurisdictions do not allow limitations on how long an implied warranty lasts, so this limitation may not apply to you. There are no rights, warranties or conditions, expressed or implied, statutory or otherwise, other than those contained in this warranty.

Roberts-Gordon shall in no event be responsible for incidental or consequential damages or incur liability for damages in excess of the amount paid by you for the ROBERTS GORDON® BZC 700 Controller. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from jurisdiction to jurisdiction.

Roberts-Gordon shall not be responsible for failure to perform under the terms of this warranty if caused by circumstances out of its control, including but not limited to fire, flood, strike, government or court orders, unavailability of supplies, parts or power. No person is authorized to assume for Roberts-Gordon any other warranty, obligation or liability.

LIMITATIONS ON AUTHORITY OF REPRESENTATIVES:

No representative of Roberts-Gordon, other than an Executive Officer, has authority to change or extend these provisions. Changes or extensions shall be binding only if confirmed in writing by Roberts-Gordon's duly authorized Executive Officer.

