Chapter 3
Getting Started

When a controller is new from the factory, when it is repaired, or updated, the controller must be initialized. This process must be performed before any programming or operations take place.

The initialization process is unique in that the sequence of entries provides default settings for all programs of the controller.

When all entries are completed, the initialization screens will no longer be available; however, settings may be changed later by referring to the instructions given in Chapter 4: Setup. Alternatively, changes to initialization are also possible (assuming it has not completed), by turning the power off then on, this restarts the entire procedure.

Initialization Procedure

Step 1   Apply power to the controller and the Language options are displayed.

> *Note:*   **It may be necessary to adjust the contrast in the display by using the DARK and LIGHT front panel keys.**
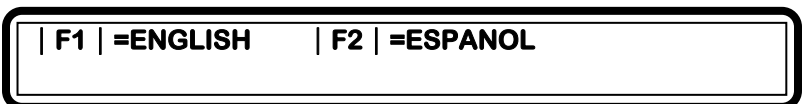
| F1 | =ENGLISH | F2 | =ESPANOL

Figure 8: Language Selection

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Getting Started**

There are two options:

- F1=ENGLISH - displays all controller menus and settings in English.

- F2=ESPANOL - displays all controller menus and settings in Spanish.

Step 2   Select F1=ENGLISH. The menu changes to the YEAR Entry display.

Step 3   Enter the YEAR, and then press ENTER. Four numbers must be entered, as depicted in Figure 3-2.
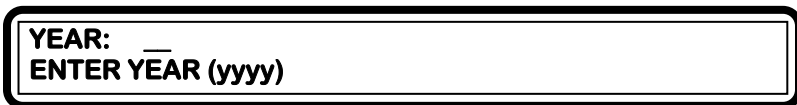
```
YEAR:    __
ENTER YEAR (yyyy)
```

Figure 9: Year Entry

Step 4   Enter the MONTH. Use 1 for January, 2 for February, etc., and then press ENTER, as depicted in Figure 3-3.

```
MONTH:
ENTER MONTH (1-12)
```

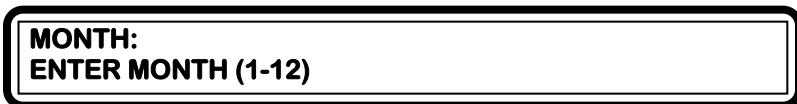**Figure 10: Month Entry**

Step 5   Enter the DAY OF THE MONTH. The day must be between 1 and 31, and then press ENTER, as depicted in Figure 3-4.

```
DAY OF THE MONTH:
ENTER DAY OF THE MONTH (1-31)
```
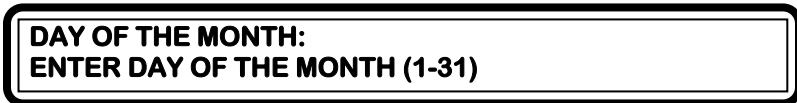
Figure 11: Day of the Month Entry

Step 6   Select the DAY of the week from the keypad numbers 1 through 7 (Sun through Sat), then press ENTER, as depicted in Figure 3-5.

```
DAY:
ENTER DAY OF THE WEEK  | SUN | - | SAT |
```

Figure 12: Day of the Week Entry

Step 7   Enter the TIME in hours and minutes (HH:MM). Select function key F1 to toggle from AM to PM, as depicted in Figure 3-6.

```
TIME:    :    AM
ENTER TIME (HH:MM)    | F1 | = AM/PM
```

Figure 13: Time of Day Entry

Then press ENTER to advance to the Master Valve Options.

Master Valve/Pump Program Default Options

The final initialization screens establish default options for usage of a particular Master Valve and/or Pump. Once established, all 12 programs and all ISC's will be affected. Individual programs or ISC settings may be modified at any time by following the procedures given in Chapter 4: Setup. The Master Valve selections are as follows:

- F1=MV1 - Master Valve 1 (Normally Closed)

- F2=MV2 - Master Valve 2 (Normally Closed)

- F3=N.O. - Normally Open Master Valve

- F4= NONE - Master Valve Not Used

Step 8   Select the appropriate Master Valve configuration for a particular irrigation system, as depicted in Figure 3-7.

```
┌─────────────────────────────────────────────────────────┐
│ IS THERE A MASTER VALVE                                   │
│  | F1 | = MV1  | F2 | = MV2  | F3 | = N.O.  | F4 | = NONE │
└─────────────────────────────────────────────────────────┘
```

Figure 14: Master Valve Options

> *Note:*   *If F4=NONE is selected, the Pump display will not appear.*

Step 9   Select the appropriate Pump configuration.

F1 = Uses Pump

F2 = No Pump Used

```
┌─────────────────────────────────────────────────────────┐
│ USES NO PUMP                                              │
│  | F1 | = PUMP    | F2 | =NONE                            │
└─────────────────────────────────────────────────────────┘
```

Figure 15: Pump Options

Step 10   This completes the initialization procedure. Verify the default base screen display has the correct information.

```
┌─────────────────────────────────────────────────────────┐
│ TUE 04:53:06PM   VALID PGM: NONE                          │
│ 06/18/96 WK1    | F1 | = MAIN MENU                        │
└─────────────────────────────────────────────────────────┘
```

Figure 16: Base Screen Display

The default base screen displays the current day, time and date.
In addition, VALID PGM: NONE, │F1 │=MAIN MENU and
the current week of a 2 week watering schedule are also shown.

- VALID PGM: NONE - indicates that there are currently
  no valid programs in the controller. See Chapter 5 for
  details on entering and changing Evolution DX2
  irrigation programs.

- │F1 │=MAIN MENU - indicates you are to press the
  F1 key to display Evolution DX2's Main Menu.
  Background information about menus and navigating
  through the menu displays is given in Chapter 2: System
  Basics. Complete details on using the menus are given in
  the subsequent sections of this manual.

Creating a New Program

To create a program, the following parameters must be set:

- Program Number
- Start times
- Watering Day cycle
- Station Run times

Using the 2 week (14 day cycle), this sample program sets up the parameters as follows:

Program 1

Water Days
Week 1: Mon-Wed-Fri
Week 2: Mon-Fri

Start Times
2:00 AM
10:00 PM

Stations	Run Time
1	5 min.
2	10 min.
3	7 min.

1
```
SAT 09:15:11AM   VALID PGM: NONE
05/01/96  WK1  |F1| = MAIN MENU
```
F1

2
```
| F1| = PROGRAM  | F2| =ISC  | F3| =STATUS
| F4|= MANUAL & RAIN OFF  | F5| =SETUP      |↑|
```
F1

3
```
|F1| = MODIFY PROGRAM  |F2|=REVIEW PROGRAM
|F3| =NEW PROGRAM  |F4|= CLEAR PROGRAM  |↑|
```
F3

4
```
PROGRAM NUMBER: P
ENTER PROGRAM NUMBER (1-12)             |↑|
```
F1   ENTER

5
```
P1 |F1| = 14 DAY CYCLE  |F2|=SKIP BY DAY
   |F3| =31 DAY CYCLE    NOW=F1      |↑|
```
F1

6

```
P1: NONE   TODAY: TUE WK2
ENTER WEEK 1 WATER DAYS|SUN| – |SAT|  |↓| |↑|
```
[MON 2] [WED 4] [FRI 6] [ENTER] [↓]

7

```
P1: NONE   TODAY: SAT WK1
ENTER WEEK 2 WATER DAYS|SUN| – |SAT|  |↓| |↑|
```
[MON 2] [FRI 6] [ENTER] [↓]

8

```
P1: START TIME 1:  :     AM
ENTER TIME (HH:MM)  |F1=AM/PM        |↓| |↑|
```
[MON 2] [0] [0] [ENTER]

9

```
P1: START TIME 2:  :     AM
ENTER TIME (HH:MM)|F1=AM/PM|↓||↑|
```
[MON 2] [0] [0] [0] [F1] [ENTER] [↓]

10

```
P1 |F1|= STATION RUN TIME
|F2|= QUICK STATION PROGRAMMING    |↓| |↑|
```
[F1]

11

```
P1 STATION NUMBER:
ENTER STATION NUMBER (1-48)           |↑|
```
[SUN 1] [ENTER]

12

```
P1 STATION 01 RUN TIME:  :
ENTER TIME (HH:MM)                    |↑|
```
[THUR 5] [ENTER]

13

```
P1 STATION 02 RUN TIME:  :
ENTER TIME (HH:MM)                    |↑|
```
[F1] [0] [ENTER]

14

```
P1 STATION 03 RUN TIME:  :
ENTER TIME (HH:MM)                    |↑|
```
[SAT 7] [ENTER] [QUIT]

This completes Program 1 entry. Program 1 will start on its
scheduled water days and start times. The base screen display
will now show "VALID PGM: 1."

Modify a Program

This example demonstrates the methods of changing the parameters of an existing program.

Example: To change start time#1 of program 1 to 3:15 A.M. and change the run time on station 2 to 5 minutes, perform the following entries:

1

```
SAT 09:15:11AM   VALID PGM: 1
05/01/96  WK1  |F1| = MAIN MENU
```
F1

2

```
| F1| = PROGRAM  | F2| =ISC  | F3| =STATUS
| F4|= MANUAL & RAIN OFF  | F5| =SETUP      |↑|
```
F1

3

```
|F1| = MODIFY PROGRAM  |F2|=REVIEW PROGRAM
|F3| =NEW PROGRAM  |F4|= CLEAR PROGRAM  |↑|
```
F1

4

```
PROGRAM NUMBER: P
ENTER PROGRAM NUMBER (1-12)          |↑|
```
SUN 1   ENTER

5

```
P1 |F1| = PROGRAM START  |F2|=WATER DAYS
|F3| =STATIONS  |F4| =PERCENT  |F5| =SEND  |↑|
```
F1

6

```
P1: START TIME1:    2:00 AMENTER TIME (HH:MM)
|F1|=AM/PM                         |↓| |↑|
```
TUE 3   SUN 1   THU 5   ENTER   ↓

7

```
P1 |F1|= PROGRAM START |F2|= WATER DAYS
|F3|= STATIONS  |F4|= PERCENT  |F5|= SEND  |↓| |↑|
```
F3

8

```
P1 STATIONS: 1-3
                                    |↓| |↑|
```

↓

9

```
P1 |F1|= STATION RUN TIME
|F2|= QUICK STATION PROGRAMMING      |↓| |↑|
```

F1

10

```
P1 STATION NUMBER:
ENTER STATION NUMBER (1-48)          |↑|
```

MON 2   ENTER

11

```
P1 STATION 02 RUN TIME:   :10
ENTER TIME (HH:MM)                   |↑|
```

THU 5   ENTER   QUIT

Program On/Off

This example demonstrates how to activate or deactivate a single program.

Example: To activate Program 1, perform the following entries:

```
SAT 09:15:11AM   VALID PGM: 1
05/01/96  WK1  |F1| = MAIN MENU
```
PROGRAM
ON/ OFF

```
PROGRAM NUMBER:
ENTER NUMBER (0-12)   0=ALL OFF
```
SUN
1

ENTER
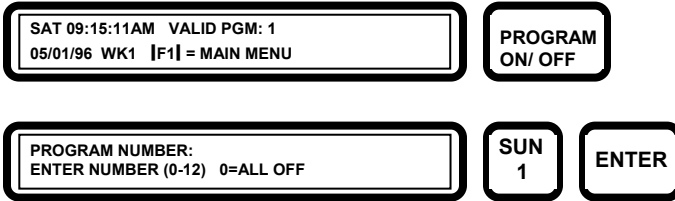
> *Note:*   *To deactivate a running program, repeat the same key strokes.*
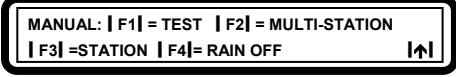
Manual Station Test Cycle

To test stations manually:
All manual operations are performed through the Manual &
Rain Off Menu.

Note: Pressing QUIT will cease all manual operations.

Example: Turn on all stations for 5 minutes.

1
```
SAT 09:15:11AM   VALID PGM: 1
05/01/96  WK1  |F1| = MAIN MENU
```
F1

2
```
| F1| = PROGRAM  | F2| =ISC  | F3| =STATUS
| F4|= MANUAL & RAIN OFF  | F5| =SETUP      |↑|
```
F4

3
```
MANUAL: | F1| = TEST  | F2| = MULTI-STATION
| F3| =STATION  | F4|= RAIN OFF             |↑|
```
F1

4
```
OPERATION TIME PER STATION:   :
ENTER TIME PER STATION (HH:MM)            |↑|
```
THU 5   **ENTER**

Each station will operate one at a time in sequential order for the
specified period of 5 minutes.

Rain Shutdown

Example: To place all irrigation programs in rain shutdown, perform the following:

1
```
SAT 09:15:11AM   VALID PGM: 1
05/01/96  WK1  |F1| = MAIN MENU
```
F1

2
```
|F1| = PROGRAM  |F2| =ISC  |F3| =STATUS
|F4|= MANUAL & RAIN OFF  |F5| =SETUP    |↑|
```
F4

3
```
MANUAL: |F1| = TEST  |F2| = MULTI-STATION
|F3| =STATION  |F4|= RAIN OFF           |↑|
```
F4

4
```
|F1| = RAIN SHUTDOWN |F2| = NO WATER WINDOW
|F3| =PROGRAMMABLE RAIN SHUTDOWN        |↑|
```
F1

5
```
RAIN SHUTDOWN: OFF
|F1| = ON  |F2| = OFF  (AUTOMATIC MODE)  |↑|
```
F1   QUIT

Note: *The Rain Shutdown message will appear in the base screen.*