MC PLUS QUICK REFERENCE PROGRAMMING GUIDE [PLEASE READ THE ENTIRE PROGRAMMING GUIDE PRIOR TO START OF PROGRAMMING.]

1. Set Program Switch to Program 1.
2. Set Time.

EXAMPLE A - Time is 10:25 A.M., PRESS:

[1] [0] [2] [5]

EXAMPLE B - Time is 3:04 P.M., PRESS:

[3] [0] [4] [%]

3. Set Today's Date:
EXAMPLE -
Today is Wednesday,
PRESS: [4]

4. Set Days On (Desired Watering Days) for Program #1.
EXAMPLE A - Watering Days are: Monday, Wednesday and Saturday. PRESS:

[2] [4] [7]

EXAMPLE B - Would like to change above Watering Days to: Mondays, Wednesday and Friday. PRESS:

[7] [6]

5. Set Water Time for station designated to run on Program #1:
EXAMPLE A - Stations 1 & 4 are to water 10 & 25 minutes respectively. PRESS:

[1 WATER TIME] [1] [0]
[4 WATER TIME] [2] [5]

EXAMPLE B - Stations 6 & 8 are to water 5 1/2 & 9 hours respectively. PRESS:

[6 WATER TIME] [5] [3] [0]
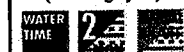[8 WATER TIME] [9] [0] [0]

6. Set Cycle Start time for Program #1.
EXAMPLE - Two Watering Cycles per day on scheduled Days On at 4:15 A.M. and 7:30 P.M., PRESS: *(refer to top of next column)*

[1 CYCLE START] [4] [1] [5]
[2 CYCLE START] [7] [3] [0] [%]

7. Semi-Automatic: To manually activate a watering cycle in Program #1 beginning with Station #3, PRESS:

[3]

8. Single Station Timed Manual: For additional watering of Station 2, for its watering time, without activating the rest of the sequence (watering cycle) in Program #1, PRESS:

[WATER TIME] [2]

9. Water Budgeting: Changes all Water Times within a program by 1% - 255%, with 100% being the current Water Time.
EXAMPLE - To program controller to use only 2/3 of currently programmed Water Time for each station in Program #1:
   a) Press the "PM/%" Key.
   b) Press "67" [(2/3) x 100 = 67].
   c) Press "Enter" Key.

10. Programmable Watering Calendar: Watering Calendar may range from 1-16 days. Calendar is automatically set to 7 days by factory.
EXAMPLE - To water once every five days, select "5" for the Calendar length and choose one Day On and four Days Off. To change Calendar Length:
   a) Turn dial to P.E./Calendar Position.
   b) Press numeral key "5".
   c) Press "Enter" Key.

11. Loop. Repeats sequential watering of all stations in Program #4. This option is available ONLY in Program #4.
EXAMPLE: To program a loop beginning at 8:00A.M. and continuing until 7:30 P.M., press the following keys to set BEGINNING time:

[2 CYCLE START] [8] [0] [0]

Now press the following keys to set the Loop ENDING time:

[0 CYCLE START] [7] [3] [0] [%]

Program Analysis:
Total Watering Time/Scrolling/Cycle end.

- To recall the Total Watering time within a program, press "Clear" Key and then press "Water Time" Key.
- To scroll the watering time of each programmed station, press "Clear" Key. Then press "Water Time" Key twice.
- To recall the ending time of a watering cycle, key in the number of desired Cycle Start and then press the "Cycle Start" Key twice.

INCOMPLETE PROGRAM ALERT:
Controller alerts operator if a program is missing necessary information for automatic operation (Days On, Watering Time, Cycle Start). To check that program is complete, move Program Knob out of current program position. If programming is incomplete, controller will sound one long "beep".

NOTES:
1. To enter Program #2, #3, or #4, set Program Knob to the appropriate Program position and perform the desired programming as shown for Program #1. Use operations 4,5, and 6 only.
2. When finished programming, return Program Knob to the Auto/Run position.
3. Correct key depression sequence is essential. Follow examples sequence.
4. Sequence of operations (2-6) is not important and can be followed in any desired order.
5. If error "Error" appears on the display, depress the "Clear" Key before attempting to reprogram the last function.

TROUBLE SHOOTING

A. **DISPLAY FLASHES "FUSE" ALTERNATELY WITH STATION NUMBER.**
   1. Check station solenoid for shorts.
   2. Check station wiring for shorts.
   3. Repair damage and press "Clear".

B. **NO DISPLAY:**
   1. Check primary and secondary on transformer.

C. **CANNOT PROGRAM:**
   1. Move Program Knob to a program position.

D. **ALL STATIONS WILL NOT TURN ON AUTOMATICALLY:**
   1. Check Cycle Start 1-3 for proper start time.
   2. Verify Watering Days by pressing DAY ON key. Program proper days on.
   3. Verify that Water Budget is NOT set to 0%.
   4. Verify that Water Time is programmed.
   5. Check if controller is flashing "Fuse". See A.

E. **CONTROLLER LOSES PROGRAM:**
   1. Controller box not properly grounded.
   2. Check primary and secondary wiring.

F. **STATION STAYS ON:**
   1. Check duration of programmed Water Times.
   2. Check valve for rocks or other obstructions. Check valve for torn diaphragm.

G. **STATION WILL NOT TURN ON:**
   1. Check Program Knob (not in Rain Off position or programmed Rain Off).
   2. A station will NOT operate with Zero Water Time. Enter proper time.
   3. Verify that Water Budget % is NOT set to 0%.

H. **CONTROLLER TIME DISPLAY IS INCORRECT:**
   1. Power failure with no battery time back-up. Install 9V alkaline battery.

FOR MORE DETAILED INSTRUCTIONS & PROGRAMMING EXAMPLES, PLEASE REFER TO OWNER'S MANUAL.

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