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Check for all Components

QWERTY Remote Keypad (66 Keys)

AAA Batteries x 2

Screws & Brackets

User Manual

ATTENTION

TEST THE SIGN BEFORE INSTALLING

IP67 Cable
(for 2 sided signs only)
Wall Mount

Slide the dual purpose wall mount or hanging brackets into the channel/slot on the top and bottom of the frame. Tighten the set screws on the brackets to lock them in place near the corners of the frame preferably. Hold up the sign on the wall in the desired position and screw it in place on the wall using appropriate screws found at your local hardware store. If installing on drywall it is recommended to use appropriate drywall anchors. (Screws to mount on wall not included).
1) [Esc] Escape key or to go back to previous step
2) [Power] Turn on/ Turn off
3) [Symbol] To enter Symbol character
4) [Animation] To enter Animated effects
5) [Image] To enter Image from preloaded library
6) [Icon] To enter Icon or picture
7) [Neon] To add a Neon border, snow flakes or star bursts
8) [Stretch] To Stretch letters to fit all characters onto one screen
9) [Font Size] To change the Font Size
10) [F1] Enter Test pattern mode
11) [F2] N/A
12) [Width] To change the Width of each character
13) [CAPS] To change letters to Capital
14) [Font] To change the Font of each character
15) [Color] To change the Color of each character
16) [FN] Function Key *
17) [Copy] To Copy only the attributes of the characters
18) [Paste] To Paste copied attributes to new character
19) [Attribute] To change the Attribute of each character
20) [Space] To enter a Space in-between words or characters
21) [Outline] To add an Outline to each character
22) [◄Speed] Left arrow to move cursor left or to slow down effect Speed
23) [Speed ►] Right arrow to move cursor right or to speed up effect Speed
24) [▲Effect] Up arrow to scroll up the menu or to change style of effect
25) [▼Effect] Down arrow to scroll down the menu or to change style of effect
26) [Enter] To Confirm selection
27) [Delete] To Delete character
28) [Menu] Main menu

* Fn, short for function, is a modifier key used in a compact layout to combine keys which are usually activated separately. Pressing the Fn will allow the use of the orange colored sub-characters on the buttons of the remote.
1: Add MSG - Create New messages

2: Mod MSG - Modify Messages
   [1] Modify Message

3: Insert Contents - Insert New Contents
   [1] Insert New Contents

4: Playlist - Create Playlist by selecting which messages to be turned On/Off

5: Delete MSG - Delete Messages

6: Set Time - Set Current Time and Date, Turn Sign On/OFF with timer

7: Change Password - Prevents Unauthorized Changes to Sign

8: User Setting - Additional User Settings

9: Factory Configuration - Configuration of Sign
1. How to Input a New Message

Press the [MENU] button on the remote control.
You will see (1. Add MSG. Once you see this, press [ENTER] on the remote control.
Now you will see (1. New MSG press [ENTER]
Now you will see (1. Single line press [ENTER]
You will see “INPUT YOUR MESSAGE” will scroll across the screen.
A Blinking Cursor will appear on the left side of the screen, which indicates the sign is ready for you to input your message.

Press [CAPS] then - Only Type in the first character of your message. (Default color is RED with GREEN outline) Once you
Type in the “first character”, move the cursor “blinking line” to the left of that character with the left arrow / speed
button. Once the cursor “blinking line” is in front of the first character, Press the [OUTLINE] button 1-time to remove the
Green Outline. (You can cycle thought the outline options for other outline colors.)

This will leave you with a RED character. To change the color from RED to GREEN press the [COLOR] button
1-time. (You can cycle thought the color options for other colors.)

Press the [FONT] button and cycle through the options to choose your font style.

When you have finished choosing your character options, move the cursor to the right of the character with the right arrow / speed button
and finish typing your message. When done entering your message Press [ENTER]

* The Copy and Paste button functions will only copy and paste the
Width, Font, Color, Attribute, and Outline features to the letter selected.
It does not copy and paste the same letter itself.
1. **Add MSG cont**

“Select a start effect” will scroll across the screen.
1. 3D will appear. Scroll down to... 3. Manual. Press [ENTER]
1. Scroll will appear Press [ENTER] At this point you will see your message scroll, but it will not be the full message, this is a preview. Press [ENTER] “Do you want to add additional effects?” [Y/N] will scroll across the screen press N for NO.
“COMPLETE” will scroll across the screen, then [Add MSG] will appear. Press [Esc] once to exit the menu.
Then you will see your message display across the sign.

(See the Effects Table for descriptions of each effect Page7)

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### 1. 3D option

![](3D_EFFECT.png)

- Press [ENTER] then the screen will begin with the first style of 3D effect
- Press [Up or Down/EFFECT] to scroll through the available effects.
- Press [Up or Down/EFFECT] to preview how the 3D effect has different variations to choose from.
- Press [Left or Right/SPEED] to slow down or speed up the effect.
- Press [ENTER] once an 3D effect style has been chosen.
- It will momentarily display “Repeat” then [1]
- Press [Up or Down/EFFECT] to increase or decrease the number of times you want the effect to repeat
- Press [ENTER] to save.

The sign will momentarily display “Complete”

### 2. Auto option

- Press [ENTER] to select Automatic Random Effects for all Start, Wait, and End Effects.

The sign will momentarily display “Complete”

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### 3. Manual option

- Press [ENTER] then the screen will begin with the list of start effects.
- Press [Up or Down/EFFECT] to scroll through the available effects.
- Press [ENTER] once an effect has been chosen to begin displaying a preview of that effect.
- Press [Up or Down/EFFECT] to preview how the effect has different variations to choose from.
- Press [Left or Right/SPEED] to slow down or speed up the effect.
- Press [ENTER] once selection has been made.

“Select a wait effect” will scroll across the screen.
- Press [Up or Down/EFFECT] to scroll through the available list of wait effects.
- Press [Up or Down/EFFECT] to preview how the effect has different variations to choose from.
- Press [Left or Right/SPEED] to slow down or speed up the effect.
- Press [ENTER] once the duration has been set.

“Select a wait time” will scroll across the screen, then it will display 3.0s as the default seconds to wait.
- Press [Up or Down/EFFECT] to increase or decrease the wait time.
- Press [ENTER] once the duration has been set.

“Select an end effect” will scroll across the screen
- Press [Up or Down/EFFECT] to scroll through the available list of End effects.
- Press [Up or Down/EFFECT] to preview how the effect has different variations to choose from.
- Press [Left or Right/SPEED] to slow down or speed up the effect.
- Press [ENTER] once you choose the effect.

The Sign will display “Complete” once the new message has been saved.
**Start Effect**
The effect used on your message as it enters the display

1. **3D** – 3D Effect makes the scrolling message appear 3 dimensional
2. **Auto** – Random Effects
   (If chosen, Wait Effect and End Effect will also be random)
3. **Manual** – Choose Effects Manually
   1. **Scroll** – The message scrolls into the screen
   2. **Animations** – The message appears after a short Animated effect
   3. **Letters** – The message enters the screen one character at a time
   4. **Enlarge** – The message enters the screen by expanding from Small to normal
   5. **Reduce** – The message enters the screen by reducing from Large to normal
   6. **Laser** – The message enters the screen with a Laser beam type of effect
   7. **No effect** – The message appears on the screen instantly with No effects given
   8. **Pattern** – The message materializes on the screen in a pattern effect

**Select Wait Effect**
The effect used on your message while it is holding on the display

1. **BG Image** – Adds a background of colorful animated patterns
2. **Border** – Adds a Border to the message
3. **Stop** – No effect, message will simply pause for limited time
4. **Animation** – Adds a Background with animation
5. **BG Color** – Adds background colors or color effects on the characters
6. **Special** – Special effect of falling snow flakes or starbursts

**Select End Effect**
The effect used on your message while it leaves the display

1. **No Effect** – The message leaves the screen with No effects given
2. **Fade Out** – The message fades out of the screen
3. **Reduce** – The message Contracts/Reduces until it is gone
4. **Enlarge** – The message Expands/Enlarges out of the screen
5. **Laser** – The message leaves the screen with a Laser beam effect

---

*Note* After inputting a message, you will be asked to choose the effects that you would like to use for displaying the message, starting off with the appearance of the message and then how it leaves the display. *(Note: When choosing an effect, the sign will preview what it will look like, before you press okay. To speed up or slow down the effect, press the [Left Arrow] Speed button to slow down the effect and [Right Arrow] Speed button to speed up the effect. To see different effect types, press [Up or Down Arrow/EFFECT] buttons to preview the different effects available on each category.)

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*Quick TIP*
To Create a message with No Effects:
1) Add MSG
2) New MSG
3) Enter your Message
5) 5.Wait Effect = 3.Stop
6) Select wait time as desired
7) End Effect => 1.No Effect

On a 1Row Sign (Available 1~2 Line)
To enter a 1 line message with the characters that fill the screen's height, Simply start typing a message. To enter a 2 line message press [FONT SIZE] and the cursor sign will shrink to half the screen height indicating the text size available.

On a 2Row Sign (Available 1~4 Line)
To enter a 1 line message with the characters that fill the screen's height, Simply start typing a message with the Keyboard. To enter a 2 line message press [FONT SIZE] and the cursor sign will shrink to show the size of the character height which is half the size of the screen. To enter a 4 line message press [FONT SIZE] until the cursor sign has shrunk to one quarter the screen height which indicates the text size available.

There is one more text size option that will produce a character height that is three quarters the screen height, unfortunately a two line message of different character sizes cannot be created when selecting this character height.

To Create a simple message that only Scrolls:
1) Add MSG
2) New MSG
3) Enter your Message
5) 5.Wait Effect = 3.Stop
6) Select wait time as 0.0s
7) It will say ‘Complete’

To Create a Long Scrolling message that pauses with background effects:
1) Add MSG
2) New MSG
3) Enter your Message
   Do you want to add additional effects? [Y/N] - Select ‘N’
5) 5.Wait Effect = 3.Stop
6) Select wait time for the pause duration when scrolling
7) It will say ‘Complete’

< Cool Text Fonts & Effects, Over 500 Icons & Moving Images Programmed!>

* 5 Font types (Capital letters)
* 5 Font types (Lower case)
* 5 Font types (Numbers)
* Symbols

* Font Color Variations
* Font Attributes
* 1Line input
* 2Line input

To enter a 1 line message with the characters that fill the screen's height, Simply start typing a message. To enter a 2 line message press [FONT SIZE] and the cursor sign will shrink to half the screen height indicating the text size available.

To enter a 1 line message with the characters that fill the screen's height, Simply start typing a message with the Keyboard. To enter a 2 line message press [FONT SIZE] and the cursor sign will shrink to show the size of the character height which is half the size of the screen. To enter a 4 line message press [FONT SIZE] until the cursor sign has shrunk to one quarter the screen height which indicates the text size available.

There is one more text size option that will produce a character height that is three quarters the screen height, unfortunately a two line message of different character sizes cannot be created when selecting this character height.
1. Animated Icons

2. Non-Animated Icons
2. How to Copy a Message

Press the [MENU] on the top right of the hand held remote

1. **Add MSG** -> Press [ENTER] then scroll down to Copy MSG.
2. **Copy MSG** -> Press [ENTER] then it will display a preview of the first message stored in memory.
   - Press [Up or Down/EFFECT] to scroll through all saved messages to locate the desired message to be copied.
   - Press [ENTER] and “Specify your message” will scroll across, then the screen will display the message that was copied and be ready to either modify, add more text or to copy as is. Follow the normal steps for selecting the desired effects.

3. How to Insert the Time

Press the [MENU] on the top right of the hand held remote

1. **Add MSG** -> Press [ENTER] Then scroll down to Insert Time :
3. **Insert Time** -> Press [ENTER] Then there are 3 settings that must be set up in order to display the Time.
   1. **Format** -> Press [ENTER] then press [Up or Down/EFFECT] to select from the 3 format types of displaying time
      - Press [ENTER] to select desired format : (a) 12:00PM (b) 12:00:00 (c) 12:00
   2. **Frequency** *
      - Press [ENTER] then [0min] will appear.
      - Press [Up or Down/EFFECT] to select the Frequency (between 0 minutes up to 60 minutes) that the Time display will interrupt the current message playing and display the time.
      - Press [Enter] to save and it will return to 2. **Frequency**.
      - Press [MENU] to begin playing the messages or [ESC] to return back to the previous menu
   3. **Duration**
      - Press [ENTER] then [5sec] will appear as default.
      - Press [Up or Down/EFFECT] to select the Duration (Between 0 Seconds up to 60 Seconds) that the Time will hold on the screen when it is being displayed.
      - Press [ENTER] to save the Duration and it will return to 3. **Duration screen**.
      - Press [MENU] to begin playing the messages or [ESC] to return back to the previous menu

*Note* the Time display cannot be scheduled to display the way messages are typically entered in a sequential order, meaning that there is no way to insert a Time display between a specified message intentionally
4. How to Insert the Date

Press the [MENU] on the top right of the hand held remote

1. Add MSG -> Press [ENTER] Then scroll down to Insert Date:
4. Insert Date -> Press [ENTER] Then there are 3 settings that must be set up in order to display the Date.

1. Format -> Press [Enter]
   -> then press [Up or Down/EFFECT] to select from the 2 format types of displaying the Date
   -> Press [ENTER] to select desired format : (a) 12-07-15 (b) 7-Dec-2015

2. Frequency *
   -> Press [ENTER] then [0min] will appear.
   -> Press [Up or Down/EFFECT] to select the Frequency (between 0 minutes up to 60 minutes) that the Date display will interrupt the current message playing and display the time.
   -> Press [Enter] to save and it will return to 2. Frequency.
   -> Press [MENU] to begin playing the messages or [ESC] to return back to the previous menu

3. Duration
   -> Press [ENTER] then [5sec] will appear as default.
   -> Press [Up or Down/EFFECT] to select the Duration (Between 0 Seconds up to 60 Seconds) that the Date will hold on the screen when it is being displayed.
   -> Press [ENTER] to save the Duration and it will return to 3. Duration.
   -> Press [MENU] to begin playing the messages or [ESC] to return back to the previous menu

* Note the Date display cannot be scheduled to display the way messages are typically entered in a sequential order, meaning that there is no way to insert a Date display between a specified message intentionally.
5. How to Insert Pre-loaded Animations

Press the [MENU] on the top right of the hand held remote

1. Add MSG -> Press [ENTER]
1. New MSG -> Press [Down Arrow/EFFECT] then scroll down to Animation Contents.
5. Animation Content
-> Press [ENTER] then the Screen will play the first animated display.
-> Press [Up or Down/EFFECT] to preview all available animations.
-> Press [ENTER] to select the desired animation.

The Screen will flash “Complete” once the selection has been saved.

6. How to Insert Pre-loaded Images

Press the [MENU] on the top right of the hand held remote

1. Add MSG -> Press [ENTER]
1. New MSG -> Press [Down Arrow/EFFECT] then scroll down to New IMG.
6. New IMG -> Press [ENTER]
-> Press [Up or Down/EFFECT] to scroll through the available categories
-> Press [ENTER] once the category has been selected to browse through the images for that category
-> Press [ENTER] to select the desired image. The screen will display 5sec as the default duration to display the image.
-> Press [Up and Down/EFFECT] to increase or decrease the seconds that the image will hold on the display.
-> Press [ENTER] to select the desired Image.

The Screen will flash “Complete” once the selection has been saved.
2. Mod MSG

1. How to Modify a Message

Press the [MENU] on the top right of the hand held remote

1. Add MSG -> Press [Down Arrow/EFFECT] then scroll down to Mod MSG.
2. Mod MSG -> Press [ENTER] then the first message will be displayed in preview mode with a blacked out square in the center of the display showing the number “1” for the first message.
   -> Press [Up or Down/EFFECT] to scroll through the saved messages to select the message that is to be modified.
   -> Press [ENTER] then “Modify your message” will scroll across the screen and then the message will be displayed and the cursor flashing, which indicates that the message is ready for modification.
   -> Press [ENTER] once the message has been modified or changed and then follow the normal steps for selecting the desired effects. Once completed, the screen will return to the next message in memory ready to continue modifying the messages if desired.
   -> Press [MENU] to begin playing the messages or [ESC] to return back to the previous menu.

3. Insert Contents

1. How to Insert a new message in the playlist between other previously saved messages.

Press the [MENU] on the top right of the hand held remote

1. Add MSG -> Press [Down Arrow/EFFECT] then scroll down to Insert Contents.
2. Insert Contents -> Press [ENTER] then the first message will be displayed in preview mode with a blacked out square in the center of the display showing the number “1” for the first message.
   -> Press [Up or Down/EFFECT] to scroll through the saved messages to select the position in the playlist that the new message will be inserted.
   -> Press [ENTER] to select then 1.New MSG will be displayed.

Continue entering a new message as usual.
1. How to Turn on/off selected messages in the Playlist.

Press the [MENU] on the top right of the hand held remote

1. Add MSG -> Press [Down Arrow/EFFECT] then scroll down to Playlist
2. Playlist -> Press [ENTER] then the first part of the first message will be displayed with a small o in front of the message.
   * See Example1
   -> Press [Left or Right/SPEED] to deactivate that message for playback which is represented by the small “o” in front which will change to a small “x” o means on / x means off. * See Example2
-> Press [Up or Down/EFFECT] to scroll through all the saved messages to select the which messages should be on and which should be off.
-> Press [ENTER] once all the selections have been made and the sign will return to normal playback of saved messages.

1. How to Delete Messages.

Press the [MENU] on the top right of the hand held remote

1. Add MSG -> Press [Down Arrow/EFFECT] then scroll down to Delete MSG.
2. Delete MSG -> Press [ENTER]
   -> Press [Up or Down/EFFECT] and select 1.Del One MSG or 2.Del All MSG

1. Del One MSG (Delete One Message at a time) -> Press [ENTER] then the first message in the playlist will be displayed with a number indicating which message it is in the playlist.
   - Example: 1. Sample message
   -> Press [Up or Down/EFFECT] to locate the message to be deleted
   -> press [ENTER] once the message has selected. It will then ask “Delete OK?”
   -> Press [ENTER] again to delete it. Continue to delete other messages or press [ESC] to return to previous menu or press [MENU] to return to normal playback of saved messages.

2. Del All MSG (Delete All Messages at once) -> Press [ENTER] then it will ask “Delete All OK?”
   -> Press [ENTER] again to delete it.
   The Sign will return to 2. Del All MSG and all messages will be erased. To confirm that it was all deleted properly, press [ENTER] again and if it was already deleted properly the sign will read “Could not find a MSG”
6. Set Time

1. How to Set the Time

Press the [MENU] on the top right of the hand held remote

1. Add MSG -> Press [Down Arrow/EFFECT] then scroll down to Set Time.
2. Set Time  -> Press [ENTER]
   -> Press [Up or Down/EFFECT] and select 1.Set Time, 2.Set Date, 3.Set Time On or 4.Set Time off

1. Set Time  -> Press [ENTER]
The screen will display the complete time with the first digit(s) for the hours colored differently from the rest of the digits. The digits in different color can be adjusted by pressing [Up or Down/EFFECT]
   -> Press [Right Arrow/SPEED] to select the remaining digits for minutes and seconds and change them accordingly.
   -> Press [ENTER] to save

2. Set Date  -> Press [ENTER]
The screen will display the complete Date starting with the Year colored differently from the rest of the date. The digits in different color can be adjusted by pressing [Up or Down/EFFECT]
   -> Press [Right Arrow/SPEED] to select the remaining digits for the Month and Day and change them accordingly.
   -> Press [ENTER] to save

3. Set Time On  -> Press [ENTER]
The screen will display the time range from 00:00 up to 23:59
   The first part of the time (hours) will be colored differently from the rest of the time. The differently colored date info can be adjusted by pressing [Up or Down/EFFECT]
   -> Press [Right Arrow/SPEED] to select the remaining digits for the Minutes and change them accordingly.
   -> Press [ENTER] to save once the time has been entered

4. Set Time Off  -> Press [ENTER]
The screen will display the time range from 00:00 up to 23:59
   The first part of the time (hours) will be colored differently from the rest of the time. The digits in different color can be adjusted by pressing [Up or Down/EFFECT]
   -> Press [Right Arrow/SPEED] to select the remaining digits for the Minutes and change them accordingly.
   -> Press [ENTER] to save once the time has been entered
1. How to Change or Create a New Password

Press the [MENU] on the top right of the hand held remote

1. Add MSG -> Press [Down Arrow/EFFECT] then scroll down to Change Password.
7. Change Password
-> Press [ENTER] then the screen will ask for a New Password [     ]
-> Enter your new Password, press [ENTER], then the screen will ask to Input Again [     ], press [ENTER]
-> “Modified PWD” will scroll across the screen

* Note To activate the use of a password go to 8. User Setting -> 3. Password Lock -> ON

8. User Setting

1. Additional User Settings

Press the [MENU] on the top right of the hand held remote

1. Add MSG -> Press [Down Arrow/EFFECT] then scroll down to User Setting.
8. User Setting -> Press [ENTER]
-> Press [Up or Down/EFFECT] and select from the list :

1. Timer -> Press [ENTER] -> Select ON/OFF to Enable/Disable the Timer feature that is configured under Main menu section: 6. Set time -> 3. Set Time On & 4. Set Time Off. Once a change to ON or OFF has been made be sure to press [MENU] again to exit and save the change.

2. Sound -> Press [ENTER] -> Select ON/OFF to switch the beeping sound on or off when pressing the remote control buttons. Once a change to ON or OFF has been made be sure to press [MENU] again to exit and save the change.
3. **Password Lock** -> This activates the password feature in order to prevent unauthorized changes on the Display. 
Once a change to ON or OFF has been made be sure to press [MENU] again to exit and save the change.

4. **Set Brightness** -> Press [ENTER] -> 3 time slots with different brightness levels can be scheduled, for example Morning, Afternoon, and Evening.

   The sign will ask for the first time slot and the level of brightness from 1 - 10 (10 being Max)  
   * See Example1

   The first part of the time (hours) will be colored differently from the rest of the time. 
   The digits in different color can be adjusted by pressing [Up or Down/EFFECT]. 
   Move the highlighted digits over to the last number on the Right to set the brightness level for that time.  
   * See Example2

   Continue setting the time to change the brightness levels for the remaining 2 time slots as desired.

5. **Menu Font** -> Press [ENTER] to change the default Font when entering a new message. 
Select the desired font option and press [ENTER] again, then press [MENU] to exit and save.


6. **Menu Background Auto** -> Press [ENTER] -> Select ON/OFF. When Menu Background Effect is turned ON this feature will randomly display different background effects in all the messages in saved memory during normal playback

7. **Menu Effect** -> This changes the words of the Menu options itself from a simple color to a dynamic motion effect 
-> Press [ENTER] -> Select ON/OFF -> Press [ENTER] Once a change to ON or OFF has been made be sure to press [MENU] again to exit and save the change.
1) **Main Controller**: This device is the main controlling component.

2) **LED Module**: The large square tile printed circuit board that has all the LED lamps embedded on it.

3) **Ribbon Cable**: The flat cables that send data from the main controller, to the buffer board, to the driver boards.

4) **Driver Board**: The small rectangular printed circuit board that is embedded on the back of each LED Module. The ribbon cables are plugged into this unit and go from one unit to the next.

5) **Power Supply**: The silver box that the 110V power cable is attached to. This unit supplies all power to the components in the sign.

6) **Receiving Sensor**: The sensor on the front of the sign that detects the infrared signal from the remote.
Trouble Shooting Guide

1. When the LED sign does not power on  **Check this first!**

- ✔️ Power is properly Plugged-in
- ✔️ Replace Remote Battery
- ✔️ Make sure the sensor on the sign is facing you

Still doesn’t work?  **Follow these next step!**

1) Unplug the LED sign from electrical outlet, leave the LED sign unplugged for at least 10 seconds, plug the LED sign back into the electrical outlet. If the sign still does not power on continue trouble-shooting.

2) Slide open the back cover before proceeding to next troubleshooting steps

3) Check the internal power supply to see if the green power indicator light is on.

4) Check the power wire plugs on the driver boards and main controller to see if they are fully seated and securely plugged in.

5) Check the ribbon cables coming off the main controller and the buffer board to see if they are fully seated and securely plugged in. Try removing and reseating the ribbon cables several times to get good contact on all pins and create a complete connection.

---

How to open the Aluminum back cover?

1) Unscrew the center screw.
2) Slide either side of the back cover to one side.
3) You may need to remove the back cover completely to see all the components.

---

**Power Plug is plugged in the outlet.**

*Note:* Power must be unplugged before performing any trouble-shooting or checking parts, As a precaution wear gloves when handling any parts.
2. When part of the sign is NOT showing properly

1) Slide open the back cover

2) Check the driver board that is embedded on the back of the LED Module that is not showing properly. Check to see if it is not fully seated, during shipping these can become dislodged and may need to be pressed back in completely.

3) Check all ribbon cable connections on the main controller and driver boards. Check to see if any of them are not fully seated, during shipping these can become dislodged and may need to be pressed back in completely. If this does not help, try removing and reseating the ribbon cables several times to get good contact on all pins and create a complete connection.

3. When the Remote control does not respond

* Please replace the battery on the remote controller, and if the problem persist, follow the steps:
1. Check the IR receiver on the sign and check for a red light.
2. If you see the red light on the IR receiver, point the remote to the IR receiver, then press the [POWER] button.
3. If the sign is still not responding, please contact your dealer for additional support.

* If you need further assistance please contact your dealer.
PROGRAMMABLE SCROLLING LED SIGN BOARD INSTALLATION GUIDE
Center Pole Mount (Pole and Bolts not included)

DO NOT weld any part of the MLS cabinet or the General Bracket; Bolt General Bracket and MLS cabinet ONLY! DO NOT drill additional holes into the MLS cabinet. DO NOT house the MLS inside other enclosures.

* Actual product may differ in size and design from drawings shown above.
Double Pole Mount (Pole and Bolts not included)

DO NOT weld any part of the MLS cabinet or the General Bracket; Bolt General Bracket and MLS cabinet ONLY! DO NOT drill additional holes into the MLS cabinet. DO NOT house the MLS inside other enclosures.

* Actual product may differ in size and design from drawings shown above.
Fixed Wall Mounts (Concrete Anchor Bolt not included)

**DO NOT** weld any part of the MLS cabinet or the General Bracket; Bolt General Bracket and MLS cabinet ONLY! **DO NOT** drill additional holes into the MLS cabinet. **DO NOT house** the MLS inside other enclosures.

* Actual product may differ in size and design from drawings shown above.