

McDonalds Installation Guide

Canopy COD Installation – CCOD



Metal Pedestal COD Installation – MCOD



Everbrite COD



Texas Digital / NCR
(Key Needed)



Delphi
(Key Needed)

See page 5 for purchasing Key if needed

NOTE: *This guide is designed to give a general idea on how to install a FLASHRIGHT Display in various situations. Because it is impossible to address every installation situation, the installer will have to make some adjustments as needed.*

FLASHRIGHT Displays 6210 Browns Bridge Rd. Cumming, GA 30041
Tel. 678-455-9121 www.FlashRightDisplays.com Fax. 678-455-7176

Warning Statements

- **A qualified person should perform the installation & servicing of the FlashRight Displays (FRD).** Damage can result from dropping or mishandling the Display.
- Standard safety measures must be practiced at all times during the installation of this product. Use proper safety gear and tools for the installation procedure to prevent personal injury.
- **Prior to installation of this product, the installation instructions should be read and completely understood.** The installation instructions must be read to prevent personal injury and property damage. Keep these installation instructions in an easily accessible location for future reference.
- When working around an electrical source, **make sure the electrical source has been shut off** and confirm it is off with the appropriate testing device.



- **The FlashRight Display is a 12 Volt DC system** and must be used with the **plug-in 120 VAC to 12 VDC** power transformer supplied.
(Do not connect the 2 conductor Display wiring directly to 120 VAC)
- All wiring should meet or exceed local codes and the **National Electric Code (NEC)**.
- **1 Year Warranty** on all electronic FlashRight Display Components.



Overview

- The FlashRight Display (**FRD**) is designed to install on the right side of the Drive-Thru COD. All the (**FRD**) electronic components are outdoor rated.
- Please allocate enough time to correctly complete any installation configuration.
- Installation should be completed during **dry conditions and above 40° F.**

FCC Compliance Statement

- This equipment has been tested and found to be FCC Part 15B compliant.
Caution: Any changes to this equipment not approved by the responsible parties for compliance could void the user's authority to use this equipment.



Power Supply

- Power Supply used for the FlashRight Display is UL listed for US and Canada.
- Power Supply is rated for OUTDOOR USE
- Switching Power Supply = Input: 100-277VAC ~ 50/60Hz 300mA
Output: 12V Max. 1000mA



For Technical Assistance Call: 678-455-9121

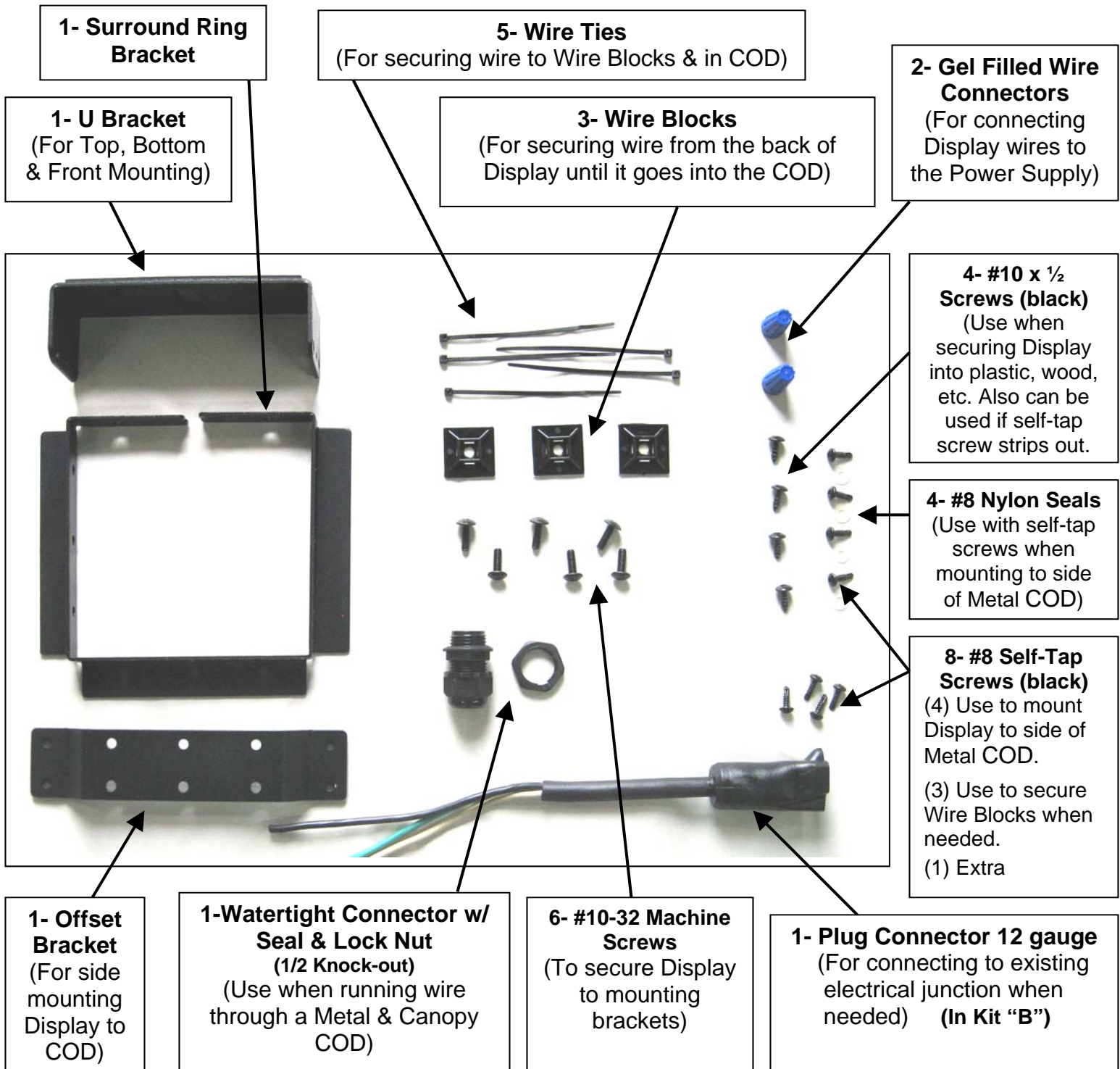
Mon - Fri 9 am-5 pm

(Eastern Standard Time)

-OR-

Visit us at www.FlashRightDisplays.com/InstallationSupport

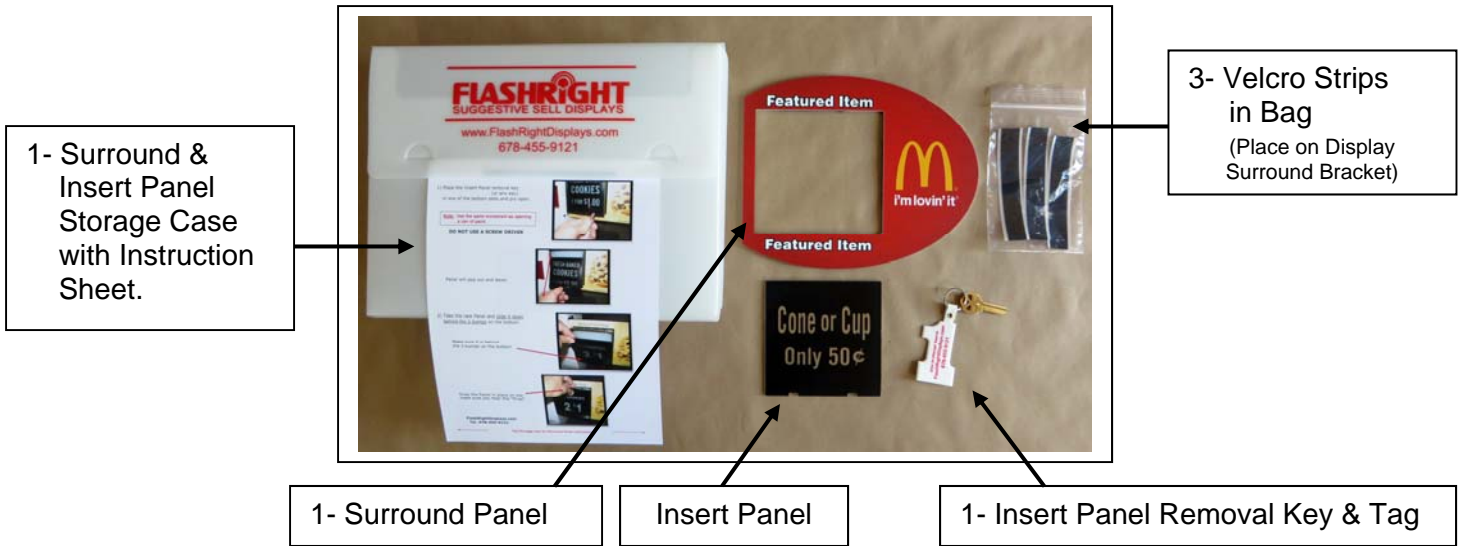
KIT "A": FLASHRIGHT Display (FRD) Brackets and Hardware Description



- The above parts are in Kit "A" (except the 1-Plug Connector 12 gauge)

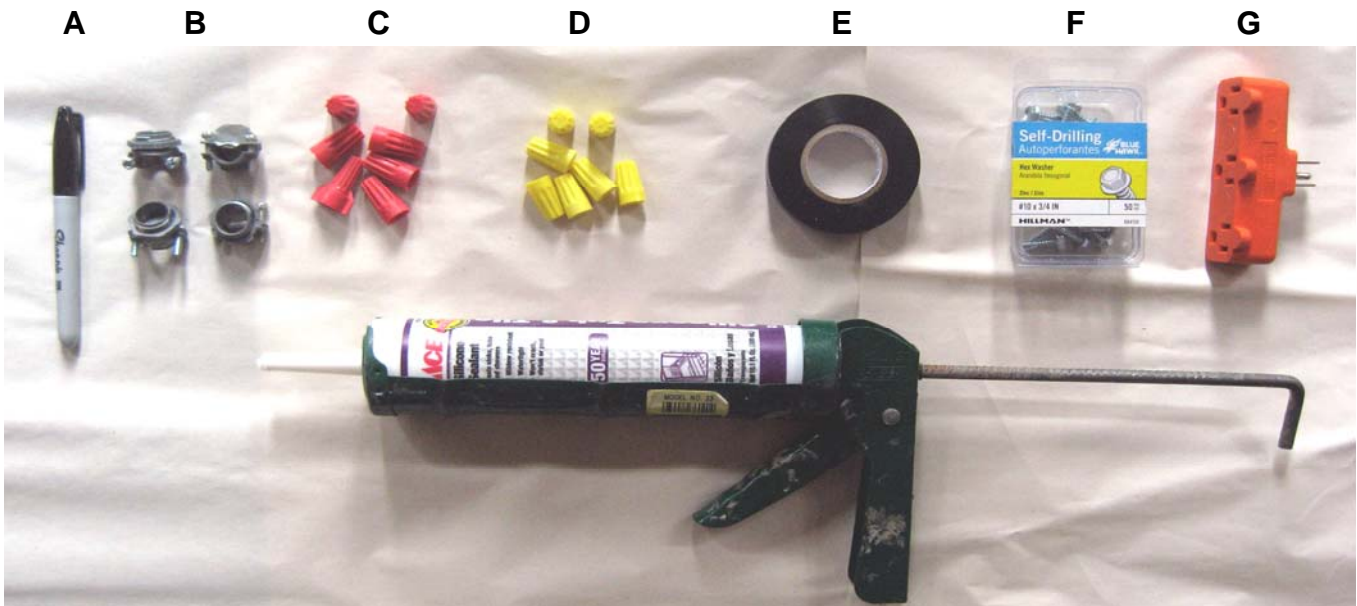
PLEASE READ "DISPLAY SET-UP GUIDE" BEFORE INSTALLATION

KIT "B": FLASHRIGHT Display Installation Accessories



Also in KIT "B" are the Installation Manuals & the 1-Plug Connector 12 gauge

Recommended Supplies for FLASHRIGHT Installation



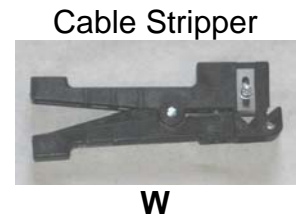
H

- A) Felt Tip Marker (Black)**
- B) Romex Connector - For 1/2" Knock Out (Sometimes needed)**
- C) RED Wire Nut Connects (Sometimes needed)**
- D) YELLOW Wire Nut Connectors (Sometimes needed)**
- E) Electrical Tape (Sometimes needed)**
- F) #10 x 3/4" Hex Head - Self Drilling Screws (Sometimes needed)**
- G) Heavy Duty 3 Way Plug (Rarely Needed)**
- H) Caulk Gun with a Tube of 100% Clear Silicone (Sometimes needed)**

Recommended Tools for multiple FLASHRIGHT Installations



- A)** #1 Flat Blade Screw Driver
- B)** #1 Phillips Head Screw Driver
- C)** #2 Flat Blade Screw Driver (Short)
- D)** #2 Phillips Head Screw Driver (Short)
- E)** #2 Square Recess Bit
- F)** Torx Bit Set (Tamper Resistant)
Make sure they are Tamper Resistant type
- G)** Magnetic Nut Driver Set (7/16" – 3/8" – 5/16")
- H)** 1/8" Drill Bit (Set of at least 2 & have extras)
- I)** 1/4" Drill Bit (Set of 2 & have extras)
- J)** 3/8" Drill Bit (Set of 2)
- K)** # 4 Step Drill Bit (3/16" to 7/8")
- L)** # 1 Step Drill Bit (1/8" to 1/2")
- M)** 6" Magnetic Drive (Extension Bit)
- N)** Metal Pedestal COD Key
 - Keys can be purchased from Assembly Fasteners, Tel # 800-488-4777
 - Part Number: Southco E3-5-15 (Key-Metric Steel – Approx. cost \$3.00)
- O)** Utility Knife
- P)** Tape Measure
- Q)** Wire Strippers
- R)** Long Nose Pliers
- S)** Channel Lock Pliers
- T)** Flash Light
- U)** Voltage/Multi Meter (Analog or Digital)
- V)** Cordless Drill w/ Magnetic Drive Bit (Minimum 12VDC or Higher)
- W)** IDEAL Part # 45-165 (Buy online-Amazon) This will help speed up install & cut cable perfect.



FLASHRIGHT Display (FRD) Set-Up Guide – Right Side Mounting

- Set up the Display as shown below when securing to the right side of a Canopy COD, a Metal Pedestal COD or the right side of a Pole Canopy COD.

1- Place Surround Ring Bracket over Display.

2- Place Offset Bracket over Surround Bracket and secure with (3) #10 Machine Screws.

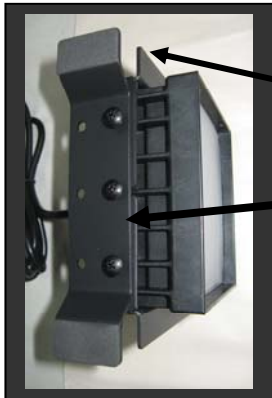
3- Align Surround Bracket holes on right side of the Display and secure with (3) #10 Machine Screws.



Left Side of Display Shown (above)

Right Side of Display Shown (above)

Do Not Overtighten Screws



Helpful Hint:

- Make sure the Surround Bracket and Offset Bracket are aligned on each of the front edges.
- Use the front screw holes of the Offset Bracket.

< Left Side Shown

Right Side Shown >



Note: The right side of the (FRD) MUST stay clear to allow proper operation of the photocell. Photo cell is on the right side behind a clear round cover (see above).

Canopy COD Installation Starts Here:

Securing the Display to the Canopy COD - Installation Steps

- Mount the FlashRight Display centered with the Electronic Display
- Mount even with front of the COD Enclosure.

(See front page for more placement images)



Video available at www.FlashRightDisplays.com/installationsupport

- Now that the Display is set-up with the brackets for this side mount installation.
- Remove the back panel to the Canopy Housing.
 - 1) Place the Display centered with the electronic display and even with the front of the COD housing. Use the (4) #10 x 1/2" Black Screws and secure the Display to the COD housing.
 - 2) Using the #4 Step Bit (K) drill a hole approximately centered with the Display wire exit and away from the back of the Display approximately 3".
 - When drilling the hole DO NOT go all the way to the 7/8" size the Step Bit can drill to. Go to the next size below and slowly drill the hole out until the Watertight Connector can be threaded in place.

NOTE: *If you make the hole too big wrap the connector with black electrical tape until you can thread the Connector in place. Make sure you apply silicone to the Connector before you thread the connector in place.*

- 3) Run the Display wire through the Connector Cap, and then the installed Connector. Behind the Connector is wide open, you can reach behind the front side on the metal structure inside and get the wire in that area. (The video will show the inside structure of the COD housing)
 - 4) Once the wire is run through the Connector and to the base of the COD housing. Tighten the Connector Cap. Leave enough wire between the Display and Connector so you can make a low point so that the water will drop off.
- Now that the Display wire is at the base of the COD Housing, make connections to the Power Supply
 - 5) Connect the Power Supply wire Red to Red and Black To Black using the Gel Filled Connectors supplied.
 - 6) Wire tie the connections, then neatly secure the rest of the extra wire with the supplied Wire Ties. **For More Details See Page 11.**
 - 7) Attach Velcro Strips to Surround Ring Bracket. **Go To Page 12 to finish the installation**

Important Note

Installations on newer Delphi COD's



In some cases the self-tap screws touch the enclosure of the COD inside which can make it harder to remove.

Use the steps below if working with a newer Delphi Enclosure.

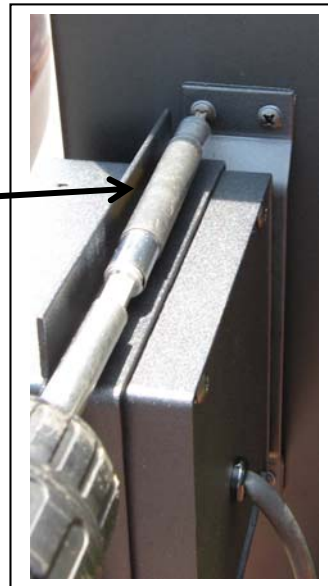
A >Make sure the front of the FlashRight Display is flush and aligns with the front of the Delphi enclosure.

B >Use the supplied #8 x 3/8" self-tap screws to temporarily mount and align the Display - DO NOT SCREW THEM IN ALL THE WAY AT THIS TIME.

You are using the #8 x 3/8" self-tap screws to drill the 4 holes and temporarily hold the Display in place.

C >Once you have the 4 screws in place and not screwed in all the way, remove one screw at a time and replace it with the supplied 4 Delphi screws that are in the marked bag.

When attaching the Display to the COD make sure to use the 6" (M) Magnetic Drive Extension Bit, so screws will go in straight.



Metal Pedestal COD Installation Starts Here:

Securing the Display to the Metal Pedestal COD - Installation Steps

View other installation Video's for similar installs at www.FlashRightDisplays.com/installationsupport

- There are 3 different Metal Pedestal COD designs: Everbrite, Texas Digital/NCR & Delphi.
- This manual will give you the general idea to complete any of these installations that you may encounter.

1) Remove the back panel of the COD. **(Key needed for newer Metal Pedestal enclosures)**

2) Center the Display with the Electronic Display on the COD. Secure it with (4) #8 Self-Tap screws.

***Make sure the Display is flush with the front edge of the COD.**

Note: Do not over tighten the screws and strip them out. If a screw strips out, replace it with a #10 x 1/2" screw (supplied).

***Make sure to use the 6" Extension Bit (M) when securing the FRD to the COD.**



3) Locate the area inside where the hole will be drilled.

*Move any wire and insulation out of the way and drill a 7/8" hole with the #4 Step Drill Bit (K).

*Install the Watertight Connector and tighten down.



#4 Step Bit (K)

Helpful Hint:

- You can use a 1/8" drill bit to make a pilot hole to confirm you will have enough space to make the full 7/8" hole and space for the inside connector nut.



Note: In some cases you will need to go below an upper section which holds the Electronic Display by itself. This is usually on older Texas Digital/NCR COD's.

- **Step 4 is ONLY if you need to run the wire down to get to the lower section.**

4) Place 2 Wire Blocks in line with the Watertight Connector.

On older COD's you will need to use 3 Wire Blocks to get below the upper section of the Electronic Display.

*Secure the Wire Blocks with #8 Self-Tap screws.

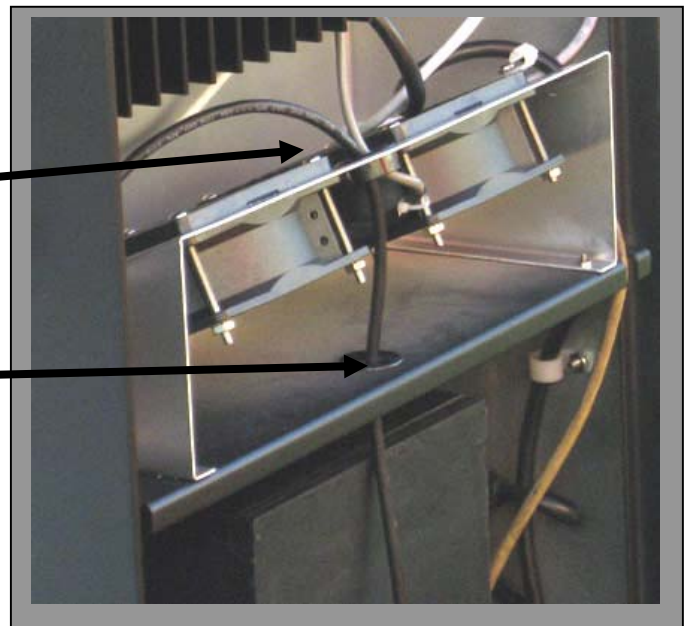
*Then secure the Display wire to the Wire Block with the Black Wire Ties (supplied).



Note: After the Display wire is secured in place on the Wire Blocks, pull the extra wire through the connector and hand tighten the outer nut of the Connector.

5) Run the wire through the opening between the fans, then through the opening on the dividing shelf to the lower area in the COD.

- On the other CODs, run the Display wire to the bottom of the COD Housing where the Power Supply will be connected.



Making the Power Connections for the FlashRight Display (FRD)

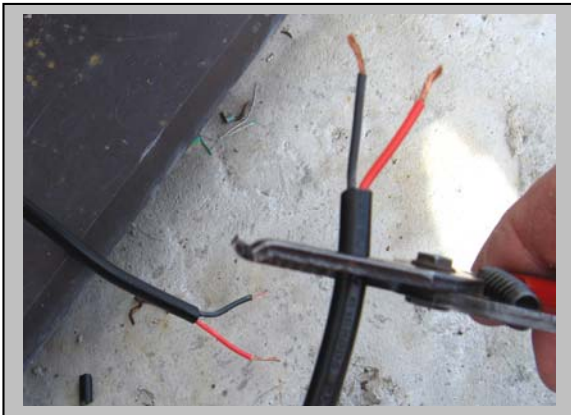
- 6) With the wire now in the COD enclosure, strip back approximately 3" to 4" inches of the Display's cable jacket, then strip off 1/2" of the conductor covering on the RED & BLACK wires.

Do the same on the Power Supply cable and conductors, make the 12VDC connections.

*Connect the RED wires together and twist on a Gel Filled Connector. (supplied)

*Connect the BLACK wires together and twist on a Gel Filled Connector. (supplied)

Note: Once connections are made, align power cable jackets & secure together with wire tie.



Helpful Hint:

- Buy the IDEAL Wire Stripper (**W**) shown on the Recommended Tool page, it will make the wire stripping process very easy and once adjusted it will make a perfect cut every time.

- 7) Plug the Power Supply into the existing COD outlet. Or wire in the Plug Connector 12guage (supplied) to the COD electrical circuit as needed.

*The Display should be Flashing On & Off at this point.

Neatly fold the extra wiring together and secure it with Wire Ties (supplied).



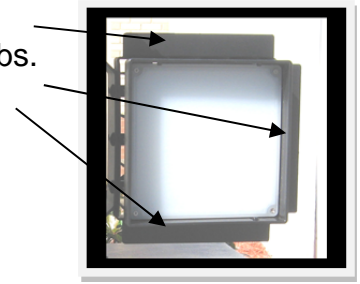
WARNING: Make sure you connect to the circuit that powers the COD and not to the circuit that powers the lighting in the Drive-thru area.

WARNING: All wiring should meet or exceed National Electric Code (NEC).



Attaching the POP Trim Panel

Apply the 3 Velcro Strips that are in Kit B to the 3 Surround Bracket Tabs.
Place the strips on the TOP, BOTTOM and RIGHT SIDE



Slide the Surround Panel over the Display
and push against the areas where the Velcro strips are.



Take the Insert Panel and slide it down
behind the 2 bumps on the bottom.

Make sure it is behind
the 2 bumps on the bottom.



Snap the Panel in place on top.
Make sure you hear the "Snap".



TO REMOVE INSERT PANEL

Place the Insert Panel removal key (or any key)
in one of the bottom slots and pry open.

Note: Use the same movement as opening
a can of paint.

DO NOT USE A SCREW DRIVER



Photocell Test

- 1) Place a piece of black tape over the photocell on the Right Side of the **FRD**.
- 2) Wait approximately 45 seconds to 1 minute. The **FRD** will dim to about 50% brightness.
- 3) Remove tape and wait approximately 45 seconds and the **FRD** will come back to full brightness.

Note: If you are installing the **FRD** at dusk or during the night time the **FRD** may already be in the Dim Mode and it will NOT dim anymore.

To test during night time

Shine a flashlight over the photocell for approximately 45 seconds to 1 minute. The **FRD** will go to full brightness. Remove flashlight and wait, the **FRD** will go back to 50% brightness.

For Technical Assistance call 678-455-9121

Mon-Fri 9 am - 5 pm

(Eastern Standard Time)

FlashRight Displays – 6210 Browns Bridge Rd. - Cumming, GA 30041
Tel. 678-455-9121 <<< >>> www.FlashRightDisplays.com