

FLASHRIGHT Display – Installation Instructions

Pole Mount COD Installations (PMCOD)



Delphi
(Key needed in some cases)

FlashRight Displays
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- **PLEASE READ WARNING STATEMENTS ON THE NEXT PAGE**
- **PLEASE REVIEW ADDENDUM PAGES *BEFORE* INSTALLATION**

Warning Statements

- A qualified person should perform the installation procedure. Injury and/or 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 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 **National Electric Codes (NEC)**
- **1 Year Warranty** on all FlashRight Display Components

For Technical Assistance call 678-455-9121

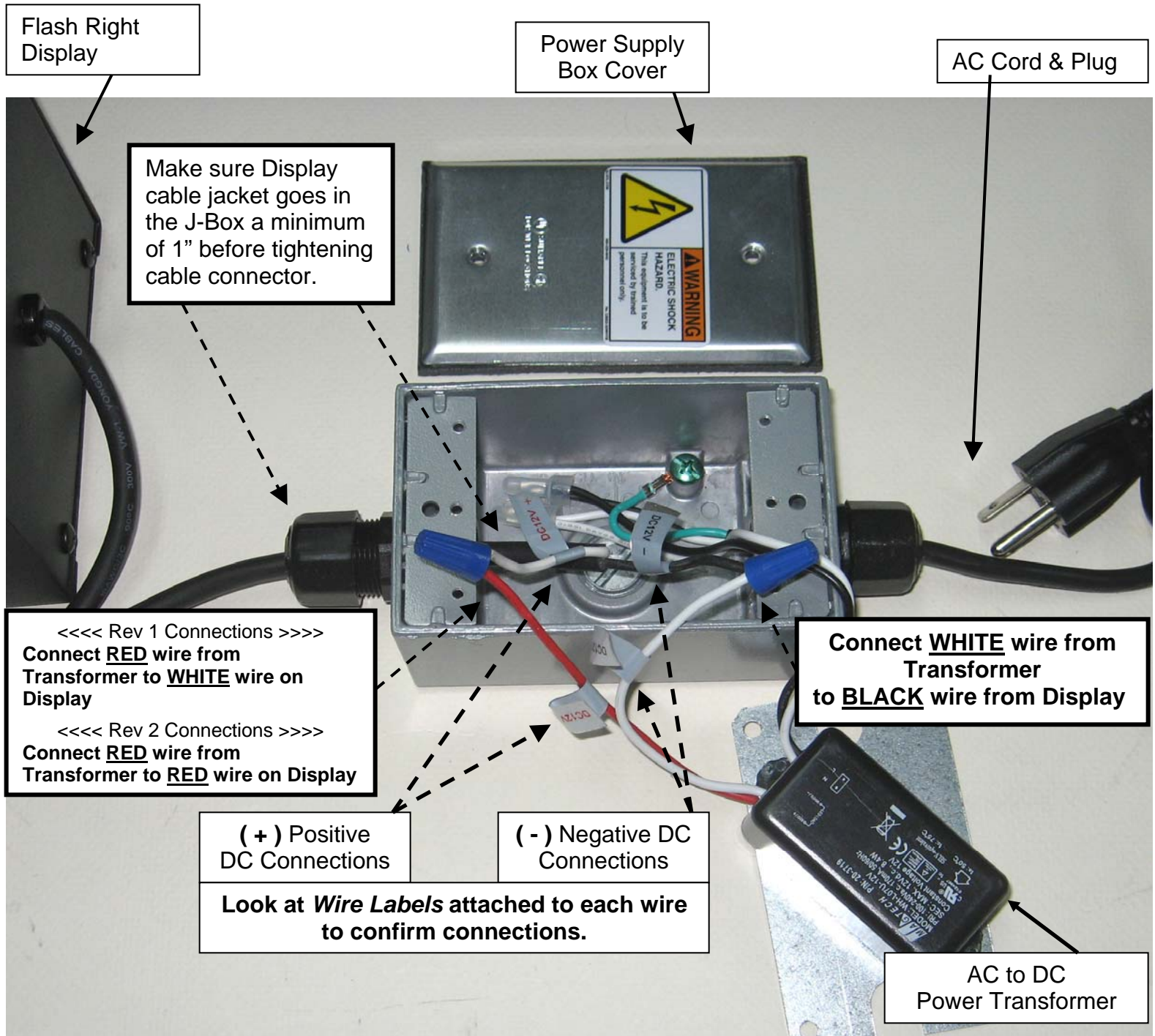
Mon - Fri 9 am-5 pm

(Eastern Standard Time)

- A **Key** may need to be purchased through Delphi Displays @
1-800-456-0060, select option 1.

PLEASE READ Addendum Pages "A" thru "C" ON THE FOLLOWING PAGES *BEFORE* INSTALLATION

Display Connection to Power Supply



Note:

Do not disconnect the WHITE & BLACK wires coming out of the Power Transformer that are crimp connected to the AC Cord & Plug.

Addendum Pg. "A"

Brackets and Hardware Description

1- POP Ring Bracket
(Use this when using the POP Panel)

1- U Bracket
(For Top, Bottom & Back Mounting)

5- Tie Wraps
(For securing wire to Wire Blocks & in COD)

3- Wire Blocks
(For securing wire from the back of Display until it goes into the COD)

2- Wire Nuts
(For connecting Display wires to the Transformer wires)

4- #10 x 1/2 Screws (black)
(Use to mount Brackets to Plastic COD & Canopy COD)

4- #8 Nylon Seals
(Use with Self-tap screws when mounting to side of Metal COD)

4- #8 Self-Tap (black)
(Use for mounting Display to side of Metal COD)

1- Offset Bracket
(For side mounting Display to COD)

4- Hole Plugs
(Plug unused mounting holes in Display enclosure)

1-Watertight Connector w/ Nylon Seal & 1/2" Lock Nut
(Use to run wire thru enclosure on Metal & Canopy COD)

5- #10-32 Machine Screws
(To secure Display to mounting brackets)

4- # 8 Self-Tap (black)
(To secure Wire Blocks to COD cabinet, (if needed) *Extra included*)

Pigtail Plug Connector 12 ga.
(For connecting to existing Electrical Junction when needed) (Part # PT12G)

PLEASE REVIEW "MOUNTING BRACKET OPTION" ON NEXT PAGE BEFORE INSTALLATION

Addendum Pg. "B"

Display Set-Up Guide

➤ Use this type of mounting if securing to the Canopy COD (CCOD) or to a Metal COD (MCOD)

1-Plug center hole on Left side of Display.



Left Side

2-Place the POP Bracket over the Display so holes are aligned.



Left Side

3-Secure the POP & Offset Brackets w/ 2 machine screws



Left Side

4-Align the 3 holes on the Right side. Use the 3 supplied machine screws to secure.



Right Side

Note: Make sure you use the holes on the front side of the Offset Bracket when putting together. Do not allow the Offset Bracket to go past the front of the POP Ring Bracket. Make sure the POP Ring Bracket has the "fold" towards the front of the FRD.

Note: You can ONLY mount the FRD on the Right Side of the CODs; the Right Side of the FRD MUST stay clear to allow proper operation of the photocell.

Suggested Mounting Location on COD's



Place the FLASHRIGHT Display center of COD Electronic Display

Addendum Pg. "C"

Overview:

- The below instructions will give the general idea how to install the FLASHRIGHT Display. (**FRD**)

Note: You must mount the **FRD** on the Right Side of the **MCOD** or the photocell dimmer circuit will not work properly.



Suggested Tools & Materials Needed:

- > Cordless Drill with Phillips Head Tip
 - > Flat & Phillips Head Screwdrivers
 - > Small Adjustable Wrench
 - > 6" Magnetic Bit Extension
 - > Wire Cutter/Strippers
 - > Black Elec. Tape
 - > 7/8" Uni-Bit Drill
 - > Standard Pliers
 - > RED Wire Nuts (rarely needed)
- > Other electrical parts may be needed depending on each individual installation

Note: *The Pole Mount Delphi Display may need a KEY to get into the enclosure.* (see pg. 2 for info)

****Turn OFF power to the COD****

Steps:

- 1) Plug the center hole on the Left Side of the **FRD** with the supplied plastic plug. (see addendum pg. "C")
- 2) Mount the supplied "Offset & POP Ring Brackets" to the left side of the **FRD**. (see addendum pg. "C")
- 3) Use the supplied #10 machine screws and secure brackets using the top and bottom holes.
- 4) Use the #10 machine screws and align the center hole on the POP Ring Bracket on the Right side first. Insert screw and finger tighten. Then align the top and bottom holes, use the #10 machine screws and secure all screws in place. (see addendum pg. "C")

Note: All holes should be covered with a screw, plastic plug or sealant and not left open.

- 5) Remove the 2 screws on each side that hold the **COD** in place and unlock Display.
- 6) Place the **FRD** to the right side of the **COD** enclosure and make sure it is lined up to the back edge of the **COD** case. Center the height of the **FRD** to the **COD** Electronic Display.

Note: Only use the back 2 **FRD** mounting screw holes when attaching to the **COD** enclosure.



NOTE: You MUST be at least 1-1/4" behind the COD screw hole to be clear of the inside COD Display housing.

- 7) Secure the **FRD** to the right side of the **COD** enclosure.
When installing to the Pole Mount enclosure you should use the supplied Nylon Gasket Washers and the supplied #10 screws. Place the washers on the screws **first** then secure with a cordless drill and extension bit.

Note: Use a 1/8" drill bit or the self tap screws that are supplied and make a pilot hole. Secure with (2) #10 x 1/2" screws (supplied).

Note: DO NOT OVER TIGHTEN MOUNTING SCREWS AND STRIP OUT.

THERE ARE 2 OPTIONS TO RUN THE WIRE AND INSTALL POWER SUPPLY

****This option is ONLY if you have a KEY and can slide out the COD Display from the housing****

OPTION #1



Drill 7/8" Hole



Install Connector & Run wire inside enclosure

- 8) Drill a 7/8" hole below and center with the air vents and align the hole level with the wire exit area on the back side of the **FRD**.
- 9) Install the Watertight Connector & run the **FRD** wire inside the **COD** enclosure.

Note: Look inside the **COD** enclosure and make sure you have a clear area BEFORE you drill the 7/8" hole for the connector. You must be able to place the Lock Nut on the threaded side of the connector inside and tighten down.

Note: Leave some slack between the **FRD** to the Connector so there is a "Low Point" so excess water can drip away.

- 10) Run the **FRD** Display wire into the power supply. (**See addendum pg. "A" for wiring**) or follow wiring labels on Display and Power Supply wires.

See page 11 for more detailed and complete power supply wiring procedures

11) Tie wrap extra wire and place the **FRD** power supply in the back right corner of the **COD** enclosure.

Note: The **FRD** power supply will sit out of the way in the back right side corner.

13) Run the power supply plug inside and down the pole to the electrical access hole at the bottom of the pole.

Note: You may need a fish tape to get the power plug down to the access hole in the pole.



Note: Make sure the wire is run through existing raceways and secure it so it will not interfere with other wiring and other components inside the **CODs**.

14) Wire in the power cord **pigtail** to the existing wiring connections at the electrical access panel. This step will be different for each installation.

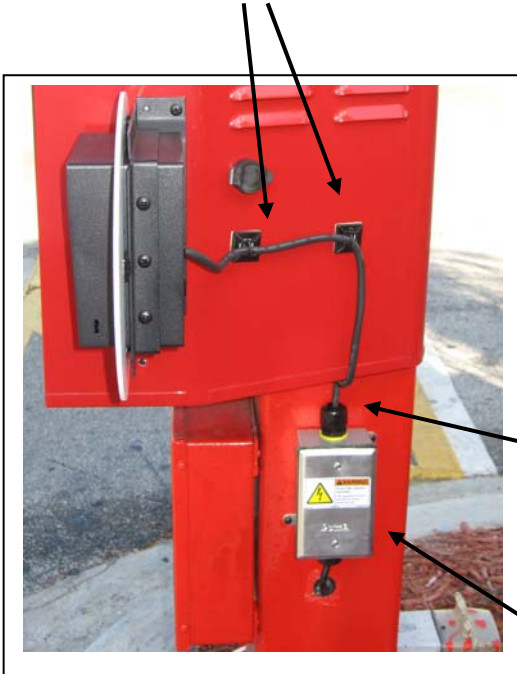
Note: Make sure you connect to the circuit that powers the **COD** and not to the circuit that powers the lighting in the Drive-thru area.

(Go To Page 10)

OPTION #2

****This option is if you DO NOT have a KEY and can not slide out the COD Display from the housing****

8a) Attach 2-3 wire blocks in a line from the back of the **FRD** to the lower part of the **COD** pole.



- Make sure to secure each wire block with the supplied #8 self tap screws.

- Attach 1 wire block directly under the **COD** enclosure to secure wiring before it goes into the **FRD** power supply.

9a) Mount the **FRD** power supply to the side of the **COD** pole. Use the supplied hardware to secure.

10a) Estimate the wire needed to connect to the power supply inside the box.

Make sure you do not cut too short.

11a) Run the wire inside the power supply housing and make the connections.

(See addendum pg. "A" for wiring)

See page 11 for more detailed and complete power supply wiring procedures.

12a) Drill a 7/8" hole under the FRD power supply. Install The weather proof connector or other protective bushing in the 7/8" hole.

- Cut the plug off the FRD power supply and run the wire through the connector/bushing and to the pole access opening.

- Seal the 7/8" hole with clear silicone where needed.



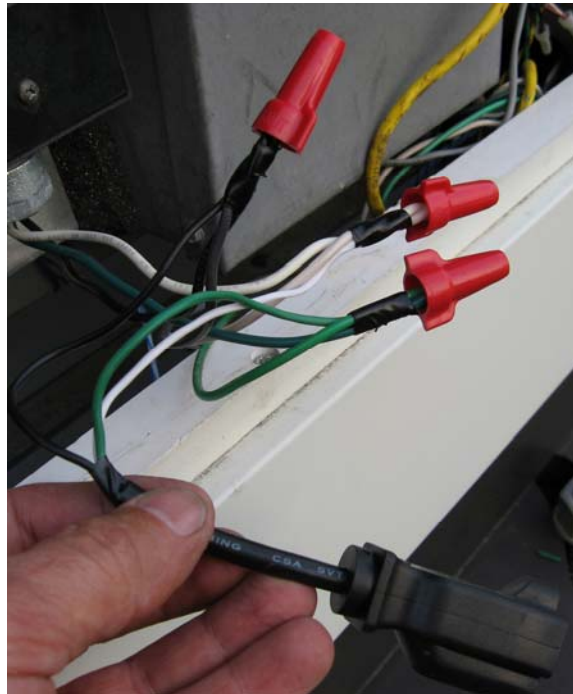
13a) Carefully strip back the jacket on the **FRD** power supply cord and wire it directly to the other open wiring inside of the **COD** Pole.



- Make sure to connect to the **COD** Display power source and not to the lighting circuit.

Option #1 Pigtail Connector Wiring

- Locate the **COD** power circuit and wire in the Pigtail Connector



Wiring the Power Supply

- Carefully strip off approximately 3” of the wire jacket.
- Push the wire through the connector on the J-Box so it will reach the other side of the J- Box.



Note: Do not leave too much wire in J- Box or you will have a hard time fitting the power transformer and connectors back in the J-Box.

- With the end of wire just to the other side of the J-Box, tighten down the watertight connector.

Note: Make sure the jacket of the wire is inside the J-Box at least 1” before you tighten down the connector. (Do not over tighten)

- Loosen the wires from the jacket material and strip the wires back approx. ½” and connect to the power transformer. (See Addendum Pg. “A” for correct wiring connections)

Note: You can also confirm correct wiring connections by looking at the attached wiring labels.

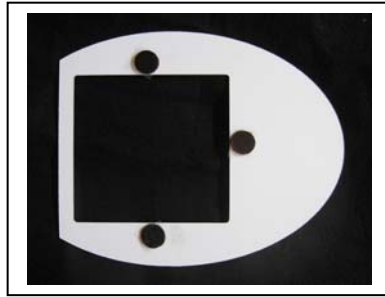
- Make wire connections. (Use the supplied twist-on wire connectors)
- Once wiring is complete and the connector is tightened, place power supply back in box, secure power supply plate to J-Box and place cover on top and secure.
- Plug in power supply box to existing outlet inside of **COD** or wire in a pig tail connector to the 120 VAC power source.
- Tape wiring connections if connecting directly to other open wiring.

Note: 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.

Note: All wiring should meet or exceed National Electric Codes (NEC)

- ****Turn power breaker back ON****
 - > Confirm unit is working. The **FRD** should be flashing at this time.
 - > Place power supply out of the way and tie wrap excess wiring as needed.
 - > Reassemble the **COD** and secure all screws or panels removed.

- Remove the Velcro® sticky pad covers and slip on the POP Panel. Push the pads against the POP Ring Bracket and make sure they adhere to the Bracket. Do NOT separate the Velcro® Pads before placing against Bracket.



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 at 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.

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Flash Right Insert Panel Replacement

- 1) Place panel removal key (or any key) in one of the bottom slots and pry open.



Do the same on the other side.

Note: Use the same movement as if you would be opening a can of paint.



Panel will drop out and down.

- 2) Take the new panel and slide it up behind the dimples on the top and "snap" the bottom in place.

Make sure it is behind the 2 dimples on the top.



***Do not place against the white plastic lens.**

- 3) Make sure the top and bottom is "snapped" in place.



If you have the POP Trim Panel it will be easier to place the top in first and then "snap" in the bottom.

Note: It is recommended that you hold the back of the display when snapping the Insert Panel in place.

Installation Notes