

User's Manual for Plashlights RGBW Bluetooth™ LED Controller



READ THESE INSTRUCTIONS BEFORE INSTALLATION.



1. Non-compliance of these instructions may cause damage to the lights and/or bodily injury.
2. The installation must be carried out by qualified personnel.
3. Regularly inspect the lights, power wire, connections, and any other accessories. If any part is damaged, the product should not be installed.
4. Disconnect the power supply before installation and service.
5. Keep this instruction manual handy for future use.
6. Do not disassemble the controller.
7. Prohibit the use of this product in excess of the operating voltage (12V DC/ 24V DC) $\pm 5\%$. The correct voltage is on the package.
8. Always use the proper fuse size (see wiring diagram).

Bluetooth Control Box	
Input Voltage	12V DC or 24V DC
Output	Max: 200 W
Waterproof Rating	IP67
Material	Polycarbonate
Size	4.96"×3.23"×1.10"
Bluetooth Transmission Distance	900 FT MAX

A. INSTALLATION INSTRUCTIONS

1. Mount the controller in a central location using the tabs on the side. Mount away from heat and be aware of metal as it will block the signal.
2. INPUT: Connect positive (Red +) wire to the positive output on a 12V~24V power supply through a fuse to a switch (see diagram below). Connect negative (Black -) wire to negative battery terminal.
3. OUTPUT: Connect the Black (V+) wire from the controller to the black (V+) from the light. Connect remaining negative wires from light to controller output. Connect Red to R, Green to G, Blue to B, and if using RGBW lights then connect the White to W.

NOTE: If using RGB lights, Instead of RGBW, the white wire (-) will not be used. Simply cut it off.

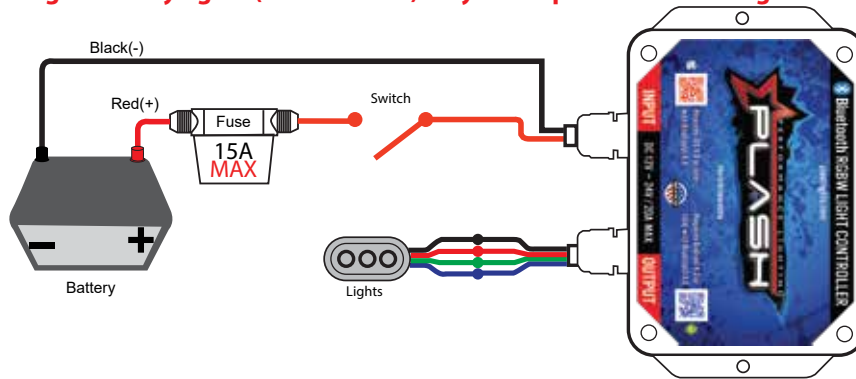
NOTE: Marine grade heat shrink butt connectors, or solder with adhesive heat shrink power source are recommended.

NOTE: The usage of a properly rated switch is highly recommended as opposed to using the App to turn on/off the lights. The switch needs to be rated for at least 15A.

NOTE: Occasionally, some other RGB light manufacturers use a Yellow wire for Green (G) and a White wire for a Blue (B).

WIRING DIAGRAM

Connecting too many lights (over-current) may cause permanent damage to the controller!



B. PAIR CONTROLLER TO DEVICE

1. Download the Plashlights APP in the APP store or Scan the QR code to download App. (IOS 6 or Android 4.3 and above)
2. Pair Bluetooth™: Power on the controller within 2 minutes. open the Plashlights APP on your device. The APP will automatically connect to the controller. Go to zone selector, create zone, name is optional, add device to zone, select zone, lights can be controlled now.

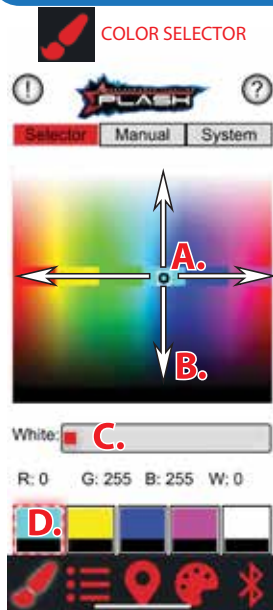


*****DISCLAIMER*****

These instructions are designed to provide a simple and straightforward installation of your speaker rings. Plashlights LLC., is not responsible for any damage resulting from the improper installation of our products to your property, components, or to location of installation. Our liability in all events is limited to, and will not exceed, the purchase price paid.

**For Technical Questions Please Call: 1-855-661-1002 Ext. 3
Mon-Fri 10am-5pm Central Time**

D. USING THE APP



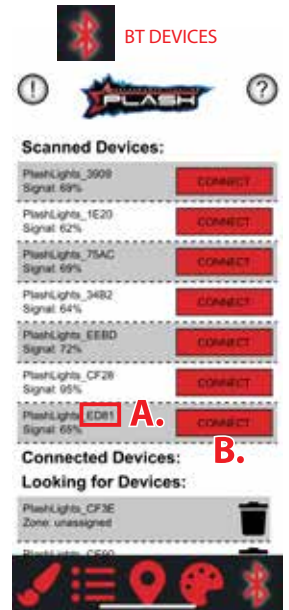
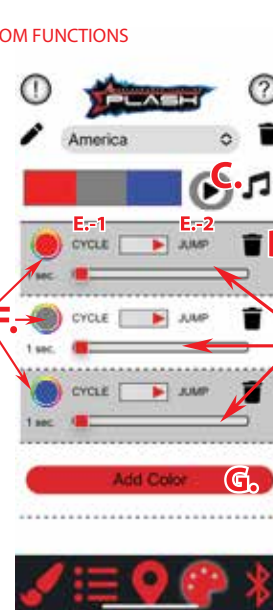
- A. Move selector to the color fitting your aesthetic.
- B. Slide up to make a tint (lighter) color. Slide down to make a shade (darker) color.
- C. White Slider for RGBW ONLY.
- D. Assign your favorite color to any box



- A. Turn ON/OFF lights.
- B. Play/ Start color cycle program. Skip forward/ backward to next program.
- C. Slow down color cycle.
- D. Speed up color cycle.
- E. Slide left and right to dim or brighten lights.
- F. Lights can pulse to music (Music is picked up through mic on phone).
- G. Saved pre-set color cycles (Scroll for more than 3).



- A. Pre-set patterns for holidays/ special occasions.
- B. Create your own customized patterns
- C. Play selected pattern.
- D. Delete color from selected pattern.
- E. Slide left and right to dim or brighten lights.
 - 1. Fade to each color.
 - 2. Jump to each color, no fade.
- F. Click here to choose new color.
- G. Add new color to any pattern.



- A. Bluetooth™ identifier, this number should match the number tagged to your controller..
- B. Connect to device matching the number tagged to your Bluetooth™ controller.

C. USING THE ZONES



NOTE: *Multiple controllers are required for multiple zones. Each controller is a "ZONE". If you only have 1 controller then you can disregard

- In the App Go to "BT DEVICES" tab, connect to device(s).
- Go to "ZONE SELECTOR". There is a default "HOME" zone.
- To edit zone names click the pen icon, a popup window shows where to enter text.
- The select/unselect feature sets what zones are targeted when commands are sent. Any number of zones can be selected. If no zones are selected, device will not receive commands.
- To add devices to a zone, click "DEVICES", click Add to assign them to the current zone. Use the "REMOVE" button to remove device from zone, and allow it to be assigned to a different zone. Rename the zone to something friendlier if desired.
- Select/Unselect is used to keep the device assigned to the zone, but not have it receive commands with the other devices in the zone.
- Devices that are unassigned always receive commands regardless of what zone is selected. Until they are added and removed from a zone.

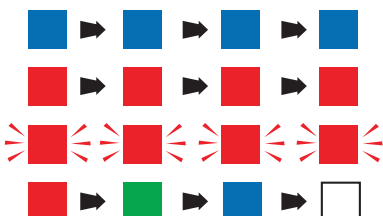


Multiple controllers can be installed and will be listed on this page. Each controller can be isolated here.

TROUBLE SHOOTING

LED LIGHTS/ CONNECTION INFO:

- Scroll Blue for BLE Connection
- Scroll RED for BLE Disconnection
- Blink RED for OVER CURRENT
- RED-> GREEN-> BLUE-> WHITE scroll (in order) on power up.



- Verify the device is powered. Verify the phones Bluetooth is turned on. **Please do not connect the Bluetooth controller through your Bluetooth setting. Use the APP only.**
- If it does not automatically connect, exit APP from the background, power off the controller for 10 seconds, reopen the APP after the controller has been powered on.
- You may need to turn on your devices location services.
- Verify power source is charged/correct voltage.
- Keep your phone and the controller no more than 30 FT apart for initial setup.
- Verify that no other devices is within range are connected.
- You may need to clear your caches.
- Ensure controller is mounted in a cool area.

User's Manual for Plashlights Flexible LED Strip Lights



Part Number:

FLS-(Color)-68-(Length)



SAFETY TIPS:

- 1) Non-compliance of these instructions may cause damage to the lights or injury, and will also invalidate our limited lifetime warranty.
- 2) The installation must be carried out by qualified personnel in accordance with local and national codes.
- 3) Regularly inspect the lights, power wire, connections, and any other accessories. If any part is damaged, the product should not be installed.
- 4) Disconnect the power supply before installation and service.
- 5) Keep this instruction manual handy for future use.
- 6) Power supply should be UL listed class 2 DC 12V or 24V.
- 7) The light source of this product are not changeable or replaceable.
- 8) **PLASH 2100 RTV Silicone** (Sold Separately) must be used for installation.
- 9) IP68 LED light strips are water proof, suitable for outdoor use. However, permanent underwater usage is not advised.

READ THESE INSTRUCTIONS BEFORE INSTALLATION.

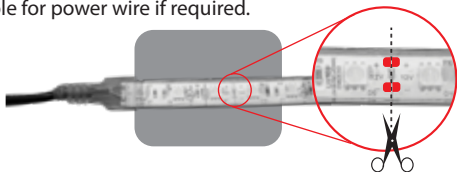
- 10) To prevent the risk of fire, do not compress the lights and keep a 1/4" gap from the light emitting surface.
- 11) Prohibit the use of this product in excess of the operating voltage (12V DC/ 24V DC) $\pm 5\%$. The correct voltage is on the package.
- 12) You can cut each section at the line marked with scissors, this cut off piece is not usable.
- 13) Always disconnect the power before cutting the lights.
- 14) Apply power to the lights to test prior to installation.
- 15) Always use the proper fuse size (see chart).
- 16) DO NOT crimp, bend forcefully, bend width-wise or bend the lights lengthwise to a radius smaller than 6 inches.
- 17) DO NOT CONNECT 12V / 24V DC FLEXIBLE LED LIGHT STRIPS TO 120V AC POWER.
- 18) Ensure LED light strips stay clean prior to installing.

Installation Instructions:

HINT: We highly suggest measuring the installation area and making any custom lengths to lights prior to installing.

STEP 1:

Unpackage light strips and test fit for length. Leave strips lying in a clean environment. You can cut every few inches on the dotted line with the scissor symbol if they need to be shortened. Using the end caps supplied, silicone the end caps over the cut end and discard remainder of strip. Drill hole for power wire if required.



STEP 2:

Clean mounting surface with an alcohol swab, removing oils and moisture. Make sure cleaned area is dry.

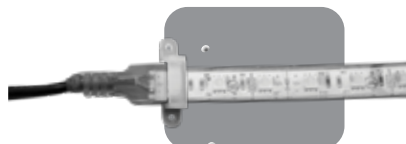
HINT: Tape off the area next to where the lights are to be installed for protection and a cleaner look.



STEP 3:

Support the power wire end of the strip. This can be done in a few ways:

- Using the rubber clips supplied.
- Using Weld-On® tabs (NOT SUPPLIED).
- Temporarily w/ painter tape (NOT SUPPLIED).



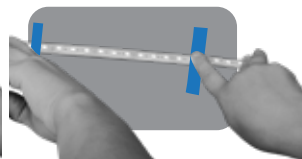
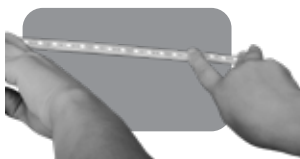
STEP 4:

Embed the back side of the lights in a constant bead of PLASH 2100 RTV Marine Silicone Sealant (Sold Separately).



STEP 5:

Gently apply the lights to the area to be mounted. Do not allow the lights to have a strain on them. An assistant or blue painters tape can be helpful. Wipe away excess sealant.



STEP 7:

Go back to the power wire end, remove support, install silicone, and re-install support.



STEP 9:

Allow silicone to dry for 24 hours before any movement or vibration. After the silicone has cured inspect LED light strips to insure there is no movement. LED strip lights should be 100% adhered.

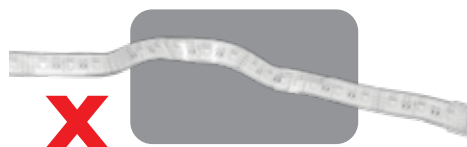
STEP 6:

When you get to the end, it may be helpful to install a permanent support (Step 3) as the ends have a tendency to curl.



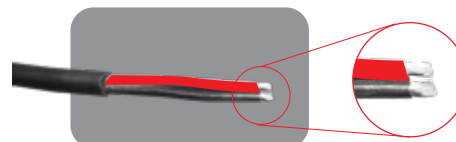
STEP 8:

Reviews entire strip for gaps in silicone, sagging, excess silicone, etc.



STEP 10:

Cut off excess power wire. The shorter the lead the better. Connect to the proper power supply. Connection details (see diagrams on reverse)



****The lights must be fully embedded in RTV silicone with no movement or will be unwarrantable****

User's Manual for Plashlights Flexible LED Strip Lights

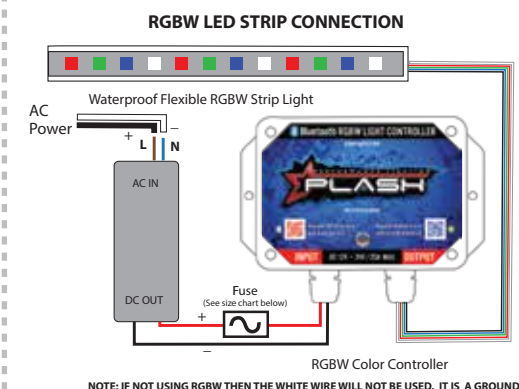
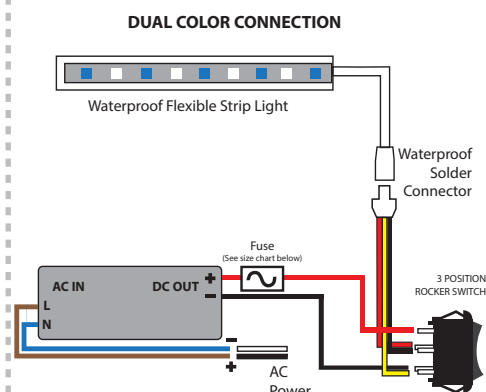
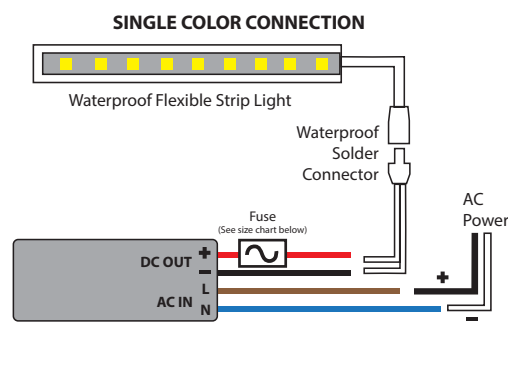


Part Number:

FLS-(Color)-68-(Length)

READ THESE INSTRUCTIONS BEFORE INSTALLATION.

WIRING DIAGRAM:



WIRE COLOR REFERENCE

SINGLE COLOR

WIRE COLOR		PURPOSE
BLACK	>>>>>>	Ground
RED	>>>>>>	12V+

DUAL COLOR

WIRE COLOR		PURPOSE
RED	>>>>>>	12V+
BLACK	>>>>>>	GROUND (COOL WHITE)
YELLOW	>>>>>>	GROUND (BLUE)

RGB & RGBW

WIRE COLOR	OPTIONAL COLOR	PURPOSE
Blue	White (NOT RGBW)	GROUND
Green	Yellow	GROUND
White	>>>>>>	GROUND
Red	>>>>>>	GROUND
Black	>>>>>>	12V+

AMP DRAW

Each 1ft. Section is 4.5W (0.375A @ 12V) | 10ft. will draw 3.75A @ 12V or 0.1875A @ 24V

Amp draw is rounded up for simplicity see spec sheet for exact values

FUSE SIZE

Below chart is with the factory length of power wire (9ft). Any additional power wire will increase the amp draw and will need to be a larger gauge. Please refer to the American Wire Gauge.

Total Length	Voltage	Fuse Size
1FT	12V	1A
4FT	12V	2A
8FT	12V	3A
12FT	12V	5A
16FT	12V	7.5A
24FT	12V	10A
32FT	12V	10A

Total Length	Voltage	Fuse Size
1FT	24V	1A
4FT	24V	1A
8FT	24V	2A
12FT	24V	2A
16FT	24V	2.5A
24FT	24V	5A
32FT	24V	5A

TROUBLE SHOOTING

LIGHTS DO NOT ILLUMINATE:

- Make sure the DC power supply is turned on and receiving power.
- Check fuse.
- Confirm you have maintained correct polarity (+ to + and - to -) when connecting lights as well as power supply
- Check all light connections and any switch or dimmer connections from the power supply to the lights
- Test with a multimeter to ensure light is receiving the 12V or 24V DC power.
- If RGB(W) confirm that the APP is turned on

ONLY PART OF LIGHT IS LIT:

- Check connections to the part of the light that is not lit
- Confirm that the voltage input is 12V / 24V.
- If the above items are confirmed, then the light strip has been damaged. Don't worry.... we can fix it but you will need to send it back to us.

LED's FARTHEST FROM THE POWER SUPPLY ARE NOTICEABLY DIMMER:

- This is the result of voltage drop. Decrease the length of the 12V or 24V DC power feed wires or use thicker power feed wires between the 12 or 24V DC power supply and the lights.
- Use shorter lengths of lights. (Most common).
- Consider a different layout configuration



WARRANTY

Thank you for choosing Plash to light your way at night. We stand proud to provide our customers with the best products and service that we have to offer. Even though we hold high quality standards, there are the rare chances of a product failing even when used under its intended purpose. Our warranty is meant to cover you in these cases.

Plash offers our valued customers the following **Lifetime Warranty*** on all Plash manufactured products.

What is Covered

Subject to the terms, exclusions and limitations herein, Plash warrants that the purchaser's product shall be free of defects in material and workmanship for the life of the product. This Lifetime Warranty is made only with respect to the initial purchaser and is not transferable. Plash reserves the right to require proof of purchase as a condition of this Warranty and Plash reserves the right to make future revisions to this product or its Lifetime Warranty without obligation to provide notice of same to purchaser or to conform existing product to future revisions. Any change to this warranty made after purchase may be applied retroactively at the sole discretion of Plash.

- LED failure due to premature burn out, solder failure, or board failure
- Moisture intrusion when used for its intended purpose
- Aluminum housing and infrastructure within (excludes aluminum feet)
- Integrity of the lens
- The coating of any aluminum product is covered for 2 Years from the purchase date

What is Not Covered

Your Plash Lifetime Warranty does not cover damage or claims to any component, vehicle, or person other than the Plash product purchased. Your Lifetime Warranty is expressly limited to replacement of the item itself if Plash determines item was not free of defects in material and/or workmanship. As such, this Warranty does not cover damage or claims to any component, vehicle, or person Plash determines to have been damaged by or subjected to:

- Any product not registered
- LED failure due to Improper voltage
- Any damage caused by factors beyond "normal use and normal wear and tear"
- Any damage due to improper installation
- Scratches or defects in product finishes or damage due to shipping (This shall be addressed at time of purchase)
- Theft, vandalism, negligent or intentional damage
- Inadequate mounting or installation damage, alteration, modification, misuse or failure to maintain
- Damage in any part attributable to: (a) vehicle systems or components or (b) combination with non-Plash products
- Acts of God, accidents, impact by rocks, trees, obstacles or other aspects of the use environment
- Damage due to water immersion (excludes transom lights)
- Problems or issues caused by dismantling the product and repairs carried out by anyone other than Plash**

- Any 3rd party product

Remedy Limited to Repair/Replacement

The exclusive remedy provided for products covered under this Warranty shall be, upon inspection and at Plash's option, to either repair or replace product or parts (new or refurbished). Any parts repaired or replaced will be considered part of the original product and will not extend the term of the Warranty. Customers requesting warranty consideration should first contact Plash to obtain an RMA # (Return Merchandise Authorization Number). All removal, shipping, and installation costs are customer's responsibility. If a replacement part is needed before your part can be returned, you must first purchase the replacement part. Then, if Plash determines the part warrantable, you will be credited the purchase price of that part.

This warranty is the only warranty made in connection with the purchase of this product. Plash neither assumes nor authorizes any manufacturer, vendor, retailer, other person or entity to assume for it any other obligation or liability in connection with its products or this Warranty.

Other Limitations - Exclusion of Damages

- Consequential damage or commercial loss is not covered under the warranty nor implied in any way. Plash, its agents, dealers, distributors, vendors, sponsors, advertisers, assigns, and any other associated or affiliated body will not be liable for any direct, indirect, special, punitive, incidental, exemplary or consequential damages, or any damages whatsoever, even if Plash has been previously advised of the possibility of such damages, whether in an action, under contract, negligence, or any other theory, arising out of or in connection with the use, inability to use, or performance of the information, services, products, and materials associated with this product. These limitations will apply notwithstanding to any failure of essential purpose of any limited remedy. Some jurisdictions do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of liability for consequential or incidental damages, in which case the above limitations may not apply. In the event that any part of the warranty is deemed inapplicable the warranty shall be applied as closely to the original intent of the warranty as possible.
- All products are used at the customer's own risk and Plash does not warrant, imply, or represent that the products are suitable for any purpose.
- Plash is not liable for any damages or charges incurred in the use of a Plash product; these charges include but are not limited to legal tickets/infractions, on road use, fire, vehicle loss, accident, rental vehicle, or replacement***.
- Plash is not subject to or liable for any and all charges incurred in the removal, repair, installation, or other actions in regards to Plash products.
- Plash will not cover any freight or shipping costs for warranty work deemed to be of any circumstance, even those covered under manufacturer reasons with RMA's.

NOTES:

*All warranties that Plash offers are subject to the above exceptions and regulations.

**Modifying the design or function, or subjecting this product to abuse, misuse, mishandling, or unauthorized repair, voids all aspects of the warranty or return policy.

***Plash products are sold AS-IS and no other warranties expressed or implied are applicable.

Important - Please Read

How To Return an Item for Warranty:

If you would like to make a warranty claim please click the box below.

- **Items returned without a completed RMA form will be refused upon delivery.**
- **Make sure the RMA# is visible on the exterior of the box. (RMA# will be today's date --> the day you complete the RMA form).**
- **Print out the below RMA form and follow the instructions on it.**

Source: <https://plashlights.com/pages/warranty>



TOLL FREE (855) 661-1002
LOCAL (281) 414 -7177

RETURN MERCHANDISE AUTHORIZATION FORM (RMA)

PlashLights
3304 N Wyoming Ave
Dickinson, TX 77539

Customer Information

Name: _____
Company Name: _____
Street: _____
City: _____ State: _____ Zip: _____
Phone: _____ or _____
Email: _____
Order Date: _____ Invoice #: _____
Item(s) Purchased: _____
Company item(s) were purchased from: _____
RMA#: _____

INSTRUCTIONS*:

1. Fill out form completely.
2. For RMA#, use today's date (example: RMA# 4-01-2022).
3. All returns must include the following: Completed RMA form, item in original packaging (if available), and a copy of original receipt.
4. Write RMA# on exterior of shipping box.
5. Ship the merchandise to the following address:
PlashLights
ATTN: RETURNS DEPT
3304 N. Wyoming Ave.
Dickinson, TX 77539

Description of Problem:

*PlashLights reserves the right to review all orders at which point we may accept or decline any order for any reason, regardless of any confirmation receipt sent by the customer. When returning products, we strongly recommend the use of a carrier that can track packages and calculate correct postage, as we do not accept any returned packages with postage due. PlashLights is not responsible for any damages incurred during shipping to our company. You also assume responsibility for insuring the returned item. PlashLights retains ownership of all products until payment is received.

Reason for Return (check all that apply)

1. ☐ 30 day satisfaction guarantee (15% restocking fee applies)
2. ☐ Received wrong product. Please explain: _____
3. ☐ Received damaged shipment. Please file a claim with carrier and enter claim number here: _____
4. ☐ Defective product. Please explain: _____

What would you like us to do?

1. ☐ Repair or replace with item of same type ordered.
 2. ☐ Issue credit -NOT AVAILABLE IF OVER 30 DAYS (less shipping, and restocking fee if applicable)
 3. ☐ Trade in (exchange with different item) Clarify: _____
- Comments: _____

Customer Signature _____ Print Name _____ Date _____

COMPANY USE ONLY:

DATE RECEIVED: _____

ACTIONS TAKEN: _____

COMPLETION DATE: _____