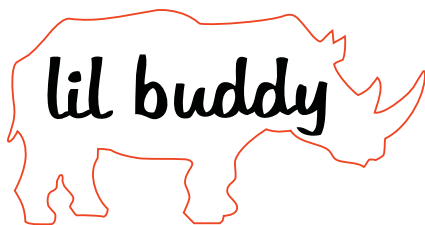

lil-BUDDY™

Locator



Operations Manual



lil-BUDDY™

Locator

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Safety Warnings

DANGER

This is the highest level statement. Failure to follow the listed instructions will most likely result in severe injury or death.

WARNING

This is a statement of serious hazard. Failure to follow the listed instructions could place the individual at risk of serious injury or death.

CAUTION

The statements used with this level of warning deal with a safe operating procedure. If the procedure is ignored, the possibility of personal injury may exist.

IMPORTANT

IMPORTANT is used to draw attention to a procedure that needs to be followed to prevent machine or property damage.

Introduction

IMPORTANT

Read and understand contents of this manual prior to using this tool. lil-BUDDY is not liable if this tool is used improperly causing unsafe windshield installation.

The lil-BUDDY Locator tool is intended to provide an accurate means of locating where urethane should be applied to the bottom of a replacement windshield.

The lil-BUDDY Locator when properly operated paints a location line on the replacement windshield for accurate placement of primer and urethane. This allows the technician to easily manoeuvre and accurately apply urethane to a windshield while it is resting on the cradle.

The lil-BUDDY Locator tool is a self-contained tool. Figure 1 shows the component parts that make up the Locator tool.

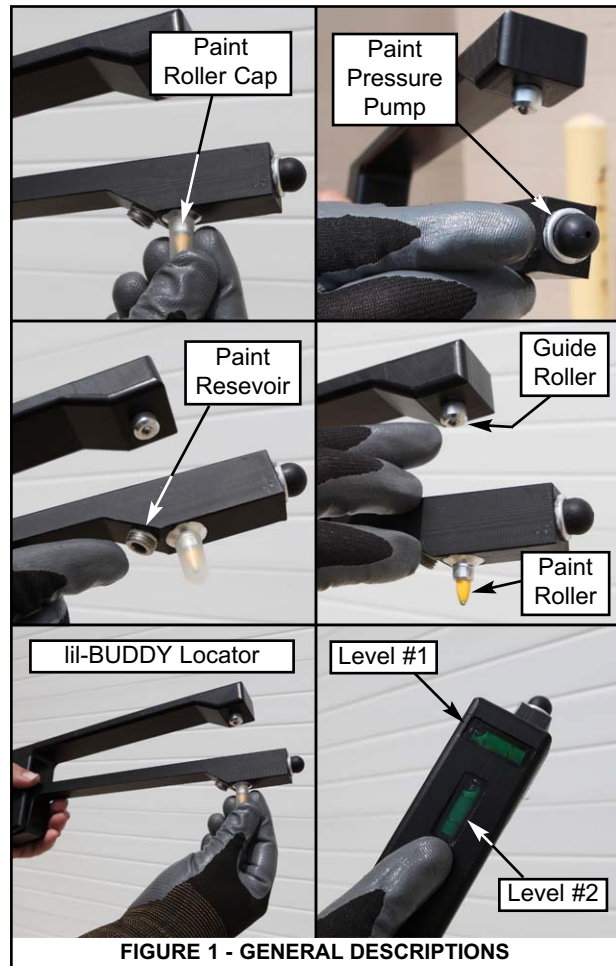


FIGURE 1 - GENERAL DESCRIPTIONS

- **Paint Roller Cap** - Used to protect the paint roller.
- **Paint Roller** - Applies paint to replacement windshield as technician guides tool.
- **Guide Roller** - Will roll along old windshield urethane bead as technician guides tool.
- **Paint Pressure Pump** - Pump approximately 10 times per use with finger over the hole to insure you are pressurizing the tube.
- **Level #1** - Used to setup old windshield over replacement windshield.
- **Level #2** - Used to ensure Locator tool is held at the proper angle while technician guides the tool.

Setting Up Windshields

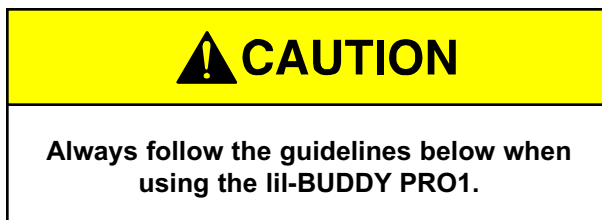
This section covers the setting up the windshields.

It assumes that you have already removed the old windshield, using any vehicle protection that was necessary for that operation. It also assumes you have read and understand the proper operation of the lil-BUDDY PRO1 windshield installation tool if being used to place windshield.

Before You Start

- Use any additional tape or other protection on the paintwork around the edge of the windshield opening.
- Clean the glass on which the lil-BUDDY PRO1 is to be mounted to, ensure there is no dust or dirt that will affect the strength of grip.
- Completely close the window on which the Base Pivot Cup is to be mounted. If the window is slightly open, there could be movement in the Base Pivot Cup that provides an unstable lift for the technician.
- Ensure that the door on which the Base Pivot Cup is to be mounted is completely closed.
- Place some tape or retention strips on either side of the vehicle roof to use once the new windshield has been fitted.
- Place the new windshield on a cradle to the side of the vehicle in readiness for placement.
- Locate two lil BUDDY Jr. suction cups to help with lifting the replacement windshield.

Health And Safety



- To avoid the risk of harm to bystanders, make sure that people are kept away from the working area while the glass replacement is in progress.
- Wear safety gloves to protect the hands.
- Wear safety glasses to protect the eyes.

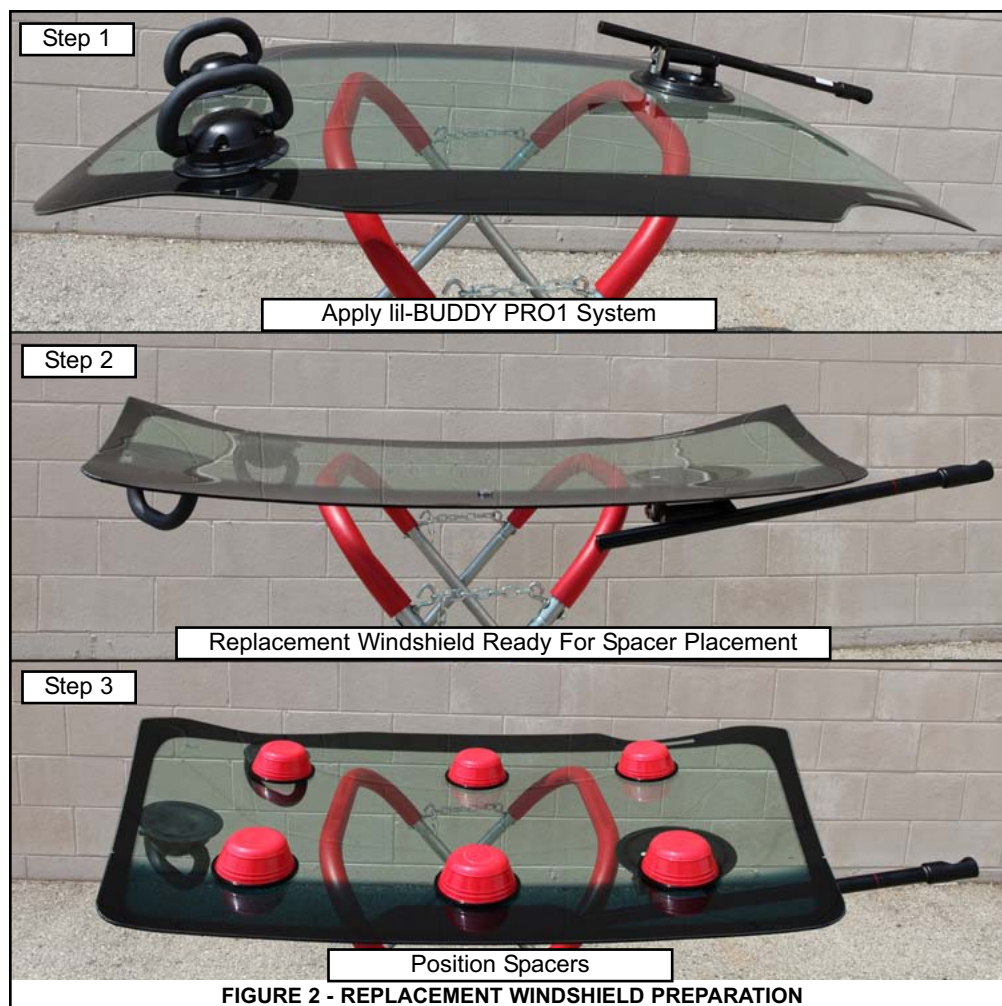
Setting Up Windshields

The windshields need to be properly setup on the cradle before using the lil-BUDDY Locator. Follow the steps outlined below to ensure the windshields are properly setup for lil-BUDDY Locator operation.

1. Place replacement windshield on the cradle with inside of windshield facing down and follow steps below to apply the lil-BUDDY PRO1 System. See step 1, figure 2.
 - Clean outside of replacement windshield.
 - Apply lil-BUDDY PRO1 system.

NOTE: Read lil-BUDDY PRO1 Owners Manual for proper system application.

2. Alternate windshield position on the cradle so the inside of the windshield is facing up. See step 2, figure 2.
3. Place Locator Spacers on windshield following steps below. See step 3, figure 2.
 - Clean inside of replacement windshield.
 - Equally spread out and position all six spacers with black rubber side down on replacement windshield. Be sure to position bottom spacers at least 8 inches up from the bottom of windshield as shown in step 3 of figure 2.



4. Place old windshield over the replacement windshield on top of spacers. See figure 3.
 - Locator Spacers will keep both windshields approximately 2-1/4 inches apart.



5. Use level #1 to position old windshield over the top of replacement windshield. See figures 4, 5 and 6.
 - Old windshield **MUST BE** directly above the replacement windshield. Use Level #1 on Locator tool to ensure the top and both sides of old windshield are properly positioned over the replacement windshield.





NOTE: See how square the old windshield is over the top of the replacement windshield in figure 6. This is imparative for accurate indicator line placement.



Using lil-BUDDY Locator

Once windshields are properly setup on the cradle you can apply the paint guide line using the lil-BUDDY Locator.

1. Using a 3/16 inch allen wrench remove paint reservoir cap and fill paint reservoir.
2. Pressurize the paint tube by depressing the pressure pump approximately 10 times. Be sure your finger is covering the hole on the pump or tube will not be pressurized.
3. Remove the paint rollers protective cap.
4. Squeeze Locator arms together and line up the Roller Guide just outside the urethane bead on the top of the old windshields. See figure 8.
5. Check Level #2 bubble to insure tool is at the proper angle. Once proper angle is acheived, release locator arms and guide the Guide Roller along old windshields urethane bead. As you guide the roller be sure to maintain proper tool angle using Level #2 indicator bubble. As you guide the tool you will also be painting a marker line on replacement windshield. See figure 8.

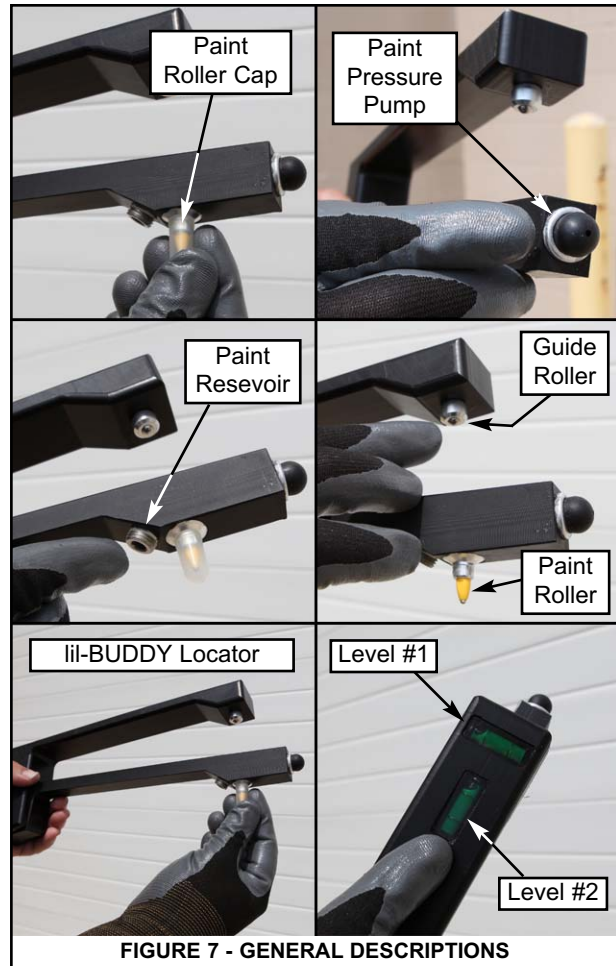


FIGURE 7 - GENERAL DESCRIPTIONS

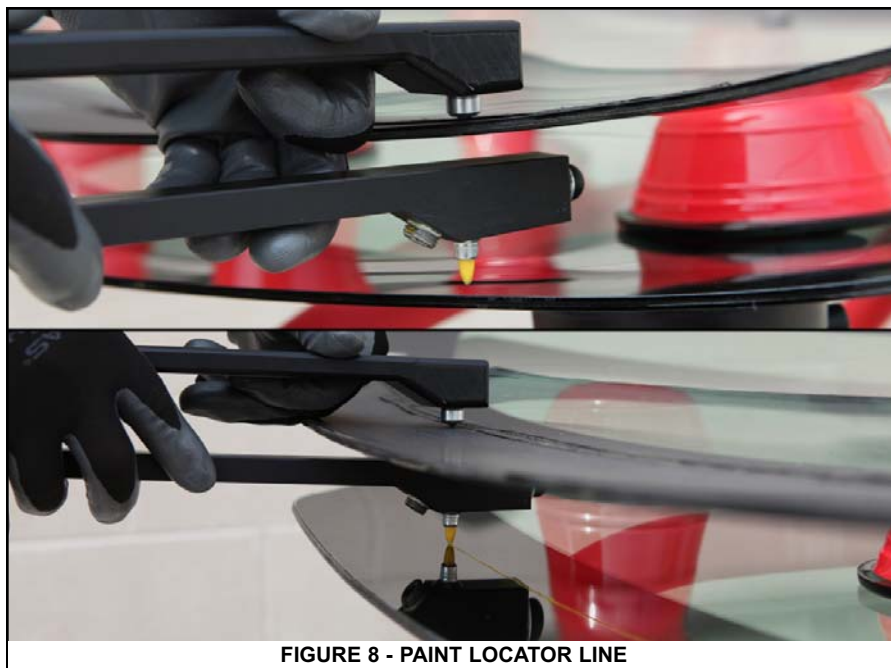
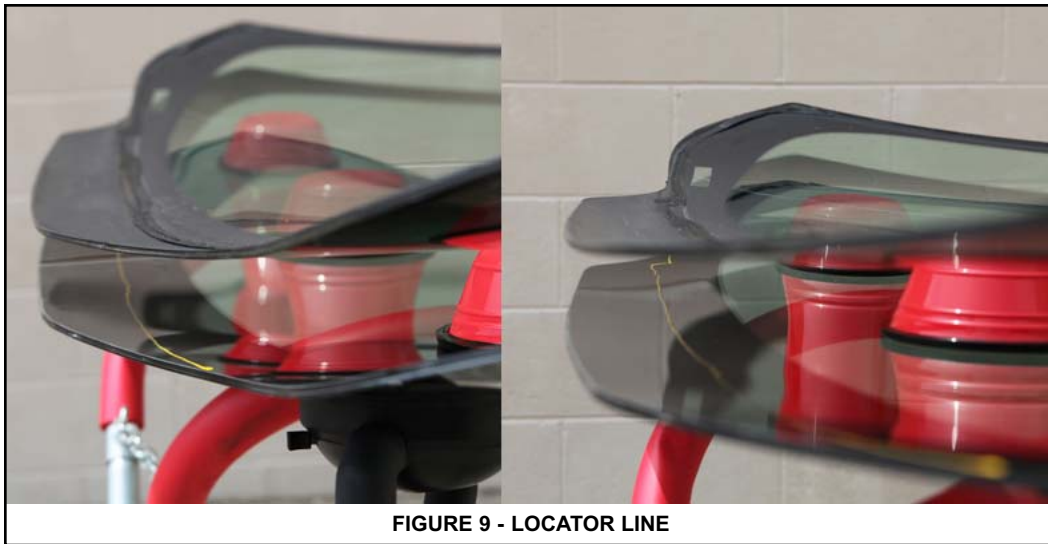
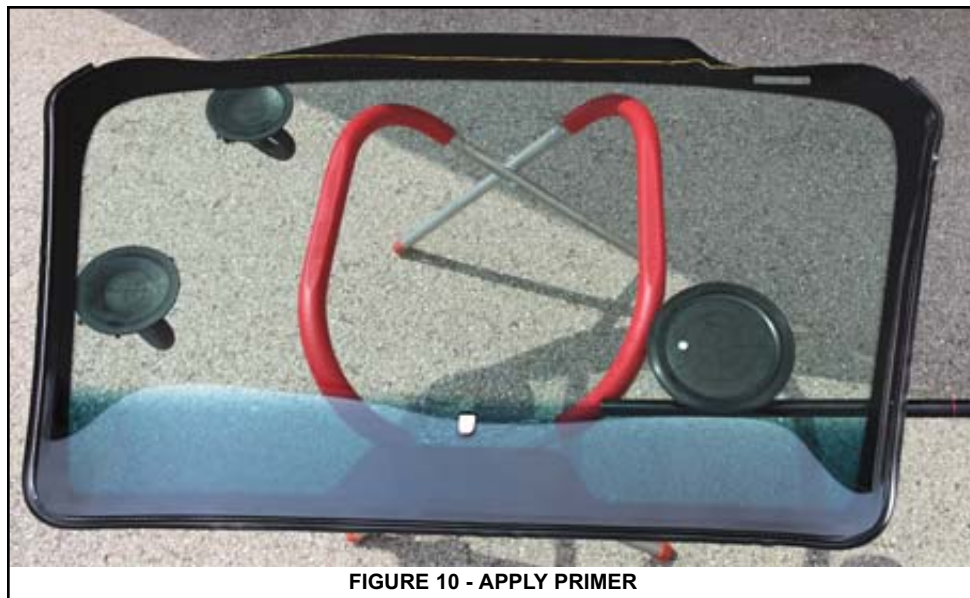


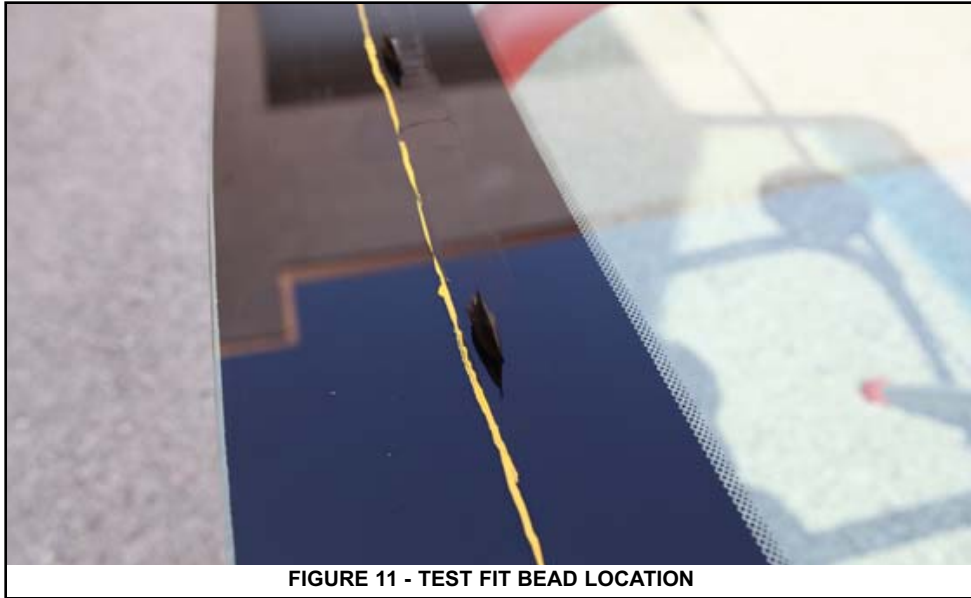
FIGURE 8 - PAINT LOCATOR LINE



6. Figure 9 shows the locator line that was applied using the lil-BUDDY Locator. Notice how it matches the old windshield's urethane line.
7. Remove old windshield and spacers once the locator line has been applied.
8. Apply primer to the windshield. In the areas where the locator line was painted the primer should be inside of the locator line towards the center of the windshield. See figure 10.



9. To insure that the locator line was properly applied to the replacement windshield perform a test fit.
- Apply six small bead urethane to the cars pinch weld in the areas where the locator line was applied to the replacement windshield.
 - Using lil-BUDDY PRO1 properly place the replacement windshield into the cars windshield opening over the area where the six small beads of urethane were applied.
 - Briefly set windshield into the opening to insure when urethane will be applied to the replacement windshield in the exact location.



10. Once you verify guide line is positioned properly with a test fit you can complete replacement windshield installation.
- Apply full urethane bead completely around the replacement windshield with only one seam. Urethane bead should be inside locator line approximately 1/2" towards the center of the windshield. Also make sure urethane hits molding.



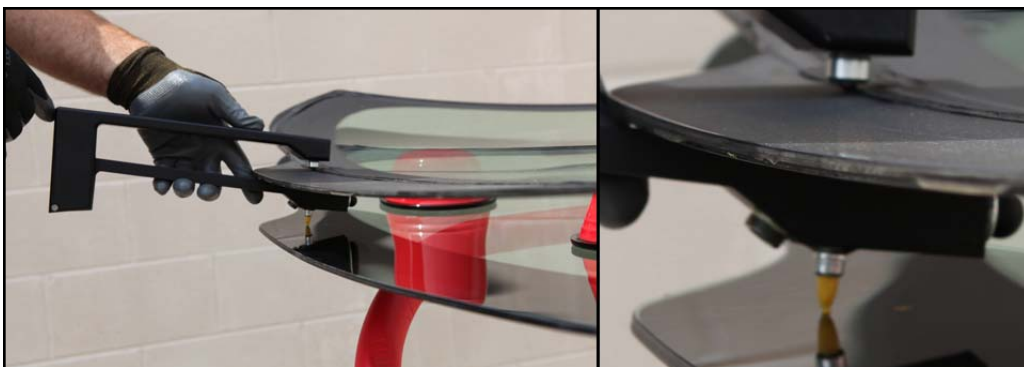
Troubleshooting

If technician does not maintain the proper locator tool angle using the Level #2 indicator bubble you will paint the indicator line in the wrong position on the windshield.



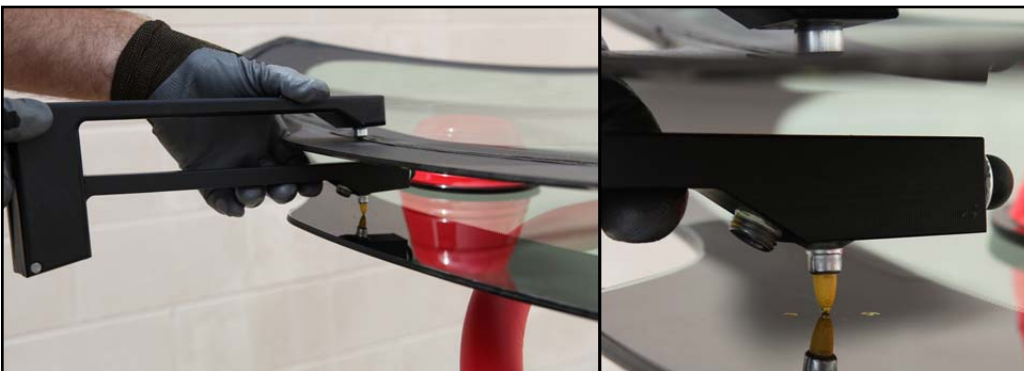
Back side of tool to low.
Result: Paint line will be to close to the center if windshield.

FIGURE 13 - TOOL ANGLE WRONG - BACK TO LOW



Back side of tool to high.
Result: Paint line will be to far away from the center if windshield.

FIGURE 14 - TOOL ANGLE WRONG - BACK TO HIGH



Tool held at proper angle using Level #2 bubble.
Result: Paint line will be in proper position on windshield.

FIGURE 15 - TOOL HELD AT PROPER ANGLE

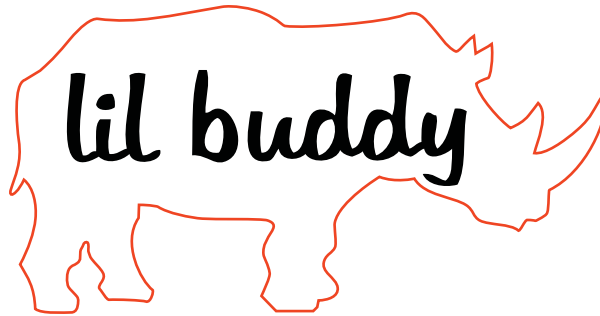
STANDARD WARRANTY

Lil BUDDY™ warrants that its products will be free from defects in design, materials, and workmanship for a period of 365 days from the date of shipment. All claims for breach of this warranty must be made within 30 days after the defect is or can, with reasonable care, be detected and in no event no more than 30 days after the warranty has expired. In order to be entitled to the benefits of this warranty, the products must have been properly installed, maintained, and operated within their rated capacities and/or specified design parameters, and not otherwise abused. This warranty is Lil Buddy's exclusive warranty. LIL BUDDY EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. Non-standard warranties, if any, must be specified by Lil Buddy in writing.

In the event of any defects covered by this warranty, Lil Buddy will remedy such defects by repairing or replacing any defective equipment or parts, bearing all the costs for parts, and transportation. This shall be the exclusive remedy for all claims whether based on contract, negligence, or strict liability.

LIMITATION OF LIABILITY

LIL BUDDY SHALL NOT IN ANY EVENT BE LIABLE FOR ANY LOSS OF USE OF ANY EQUIPMENT OR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND, WHETHER FOR BREACH OF WARRANTY, NEGLIGENCE, OR STRICT LIABILITY.



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