# Commercial
# Radar Blind Spot System

# FLTW-6000

| Recommended Tools | | | | Difficulty Level |
|---|---|---|---|---|
| Wrench | Wire Strippers | Wire Cutters | Electrical Tape | |
| Screw Driver | Panel Removal Tool | Zip Ties | Socket Set | **Install Time** |
| | | | | 1hr 30m - 3hr |

Questions? Call the Brandmotion technical support line at (734) 619-1250 or CLICK HERE

## Kit Contents

| | Components for installing the ***FLTW-6000*** |
|---|---|

**Kit Contents:**

- (1) Interior Harness
- (1) Plug in Buzzer
- (2) Radar Sensors (77GHz) 2”Wide x 0.6” Thick
- (2) HMI Extension cables (If Needed)
- (2) Extension cables for radars
- (2) HMI lights for (L) & (R) A pillars
- (2) Bag of screws, washers, etc
- (6) Zipties

# Installation

## Radar Sensor Mounting

1. The sensors can be used on either the (L) or (R) side, they are interchangeable. Ensure the smooth angle surface of each sensor faces outward towards the rear of the vehicle to optimize their detection capabilities. This orientation is crucial for accurate sensing and effective obstacle detection.

2. Position sensors at the front most, and widest part of the vehicle (see image 2.) for optimal coverage, strategically placing them to capture rearward obstacles effectively. This location provides a balanced view of the vehicle's surroundings while minimizing visual obstruction.

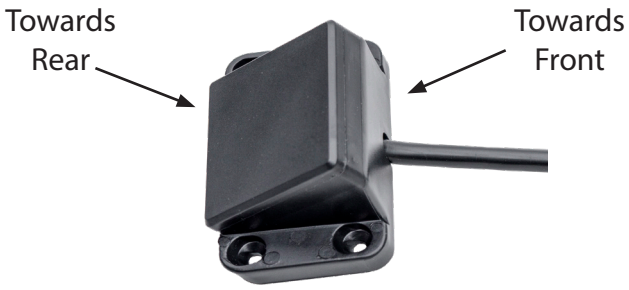
3. Confirm the mounting location does not interfere with any moving panels or doors to prevent potential damage or operational issues.

4. Sensor harness can be routed out the back of the sensor or out the mounting side to the vehicle (depending on install location type)

5. Once location is determined, use the gasket as a template to drill radar mounting holes.

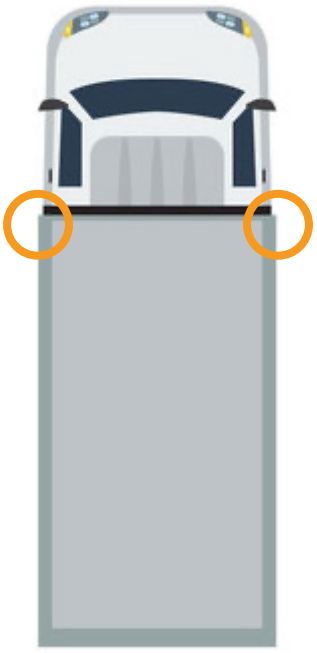
6. Attach the gasket to the radar, then attach the radar to the vehicle. Install the mounting hardware. (Do not over tighten the screws)

***1.***




**Install Radar units with sensor facing towards the rear of the vehicle.**

***2.***



# Interior Harness Installation

| | Wire Signal Diagram |
|---|---|
| 1. RED wire 12v ignition -or- 12v accessory with a purple ( 3 amp fuse ) included.<br><br>2. BLACK wire Negative, Goes to a good clean chassis ground. Or internal ground stud/bolt.<br><br>3. PINK wire / Left Trigger. Will need to be wired to the driver side turn signal wire.<br><br>4. ORANGE wire / Right Trigger needs to be wired to the passenger side turn signal wire.<br><br>5. ( DO NOT USE ) YELLOW twisted CAN H and CAN L. These are not used in the install. Strictly for software updates ONLY. | |

# HMI and Buzzer Installation

1. Find a visible location low on the A-pillars covers to mount HMI.

2. Mark the location on both A-pillar covers and using a drill bit, carefully drill through each A-pillar.

3. Insert HMI cables into the drilled holes and feed cable through. Remove the VHB tape backing and ahead to the pillar covering the hole.

4. Plug in HMI to HMI harness extension (if needed) and reattach A-pillar covers to appropriate sides, taking care not to pinch HMI harness wires.

5. Plug in HMI's (human-machine interface) to the interior harness. Make sure the LED (L) connector goes to the driver's side and the LED (R) goes to the passenger side.

6. Plug the buzzer into the interior harness. Find a flat surface to mount the buzzer to and remove backing of double-sided tape to attach to the preferred location. (The more hidden the location is, the lower the buzzer volume will be.) Make sure to turn on the buzzer from the switch on the side of the buzzer.

# System Performance

## Performance of Blind Spot Detection

1. The blind spot detection will only work when you are traveling at a speed of 18 MPH or greater. Or if you are stopped. And a vehicle is coming up from behind you traveling at the same speed just mentioned.

2. Blind spot detection will ONLY work in the lane to your left or right when traveling. Not two lanes over left or right.

3. How the blind spot detection works: If you are traveling along. And a motor vehicle is detected either on your Left or Right. Your HMI light will give off a solid RED color. Indicating a vehicle is approaching on the illuminated side.

4. If you have your turn signal on. And want to switch lanes. And there is a vehicle approaching close to you in that lane. Your HMI will start to flash and your buzzer will give you an audible alert. Warning you it's not safe to get into that lane. And to proceed with caution.

5. Blind spot detection will adapt based on the speed that a vehicle is moving into your blind spot.

# Troubleshooting

| Common Problem Faults | Common Solutions |
|---|---|
| 1. After the system is powered on, no response | 1. Is the power cable loose? Check on whether the fuse of the RED power cable is blown.<br>2. Check all the connection points to make sure they are properly connected |
| 2. The buzzer sounds abnormal | 1. Check whether there is water at the radar wiring harness. Or not plugged in all the way |
| 3. No target approaching, the System alarms frequently. | 1. Is the bracket or radar loose?<br>2. Check for metal objects in the front of the radar, or wire harness that may wobble.<br>3. Check the elevation angle to make sure it's not too low. 2-3 degrees upwards is required. |
| 4. When the system works, the left and right HMI indicators respond in reverse, and the buzzer is silent. | 1. The left and right radar wiring is reversed. |