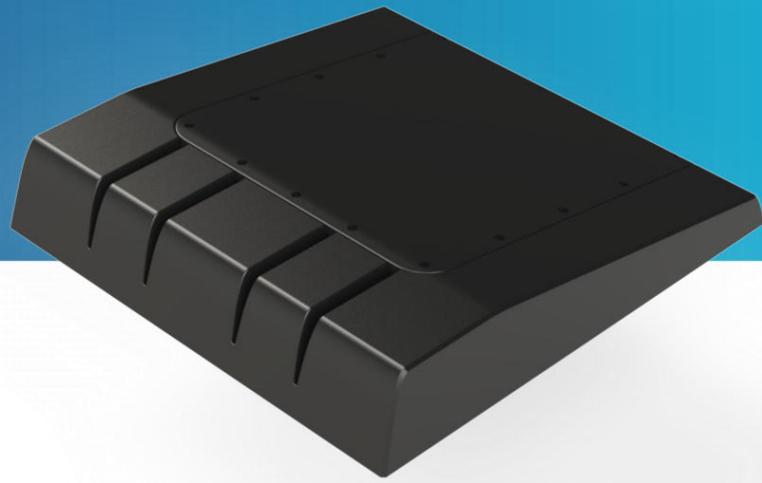


CANE CORSO

Installation Instructions



Required Tools & Accessories

Drill and 0.1 IN Drill Bit
Phillips Screwdriver
1.9 IN Hole Saw
SMA Wrench

Mounting Instructions

Antenna Mounting Location Directions

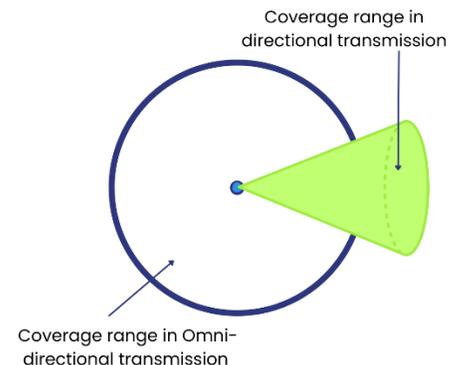
When selecting the location of an antenna, consider the following factors:

1. **Antenna Directionality** – the direction of the signal is limited by the directionality of the antenna. **Omni-directional antennas** provide a 360-degree horizontal radiation pattern, allowing for coverage in all directions horizontally with varying degrees of vertical coverage. **When selecting the location of an omni-directional antenna, ensure that the antenna can be mounted in the proper orientation relative to the horizontal plane.**

2. **Signal Path Loss** – signal strength is greatly affected by the materials that the signal passes through.

Severe signal loss can be caused by concrete and brick walls. Metals can absorb and/or reflect the signal, affecting the signal path. **For best antenna performance, select an antenna location with minimal obstructions between the antenna and the signal source(s).**

3. **Reflection & Diffraction** – the signal will bounce off certain materials and bend around obstacles. For best antenna performance, the antenna should be installed in a location where the signal path is not interfered with by materials like Low E glass, Metal, Tinted glass, etc., that reflect RF Energy.



4. **Interference** – electrical devices and appliances interfere with the antenna’s signal.

Electrical devices and appliances, such as refrigerators, microwaves, AC units, and cameras, can cause electromagnetic interference with the antenna signal.

Select a location that is as far as possible from electrical devices and appliances and minimizes the amount of such devices between the antenna and the signal source(s). For best antenna performance, install antennas as far away as possible from each other and other devices. In general, separate antennas by at least 24 inches (61 cm).

5. **Cable Loss** – signal strength is lost as RF waves travel through cables.

The longer the cable, the more electrical energy is lost as heat and the higher the signal loss.

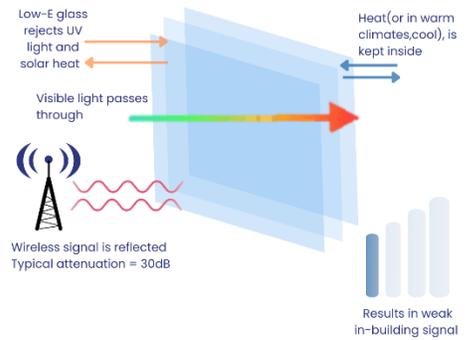
Therefore, it is best to select a location for the antenna that allows the cables to be as short as possible and still reach the router.

The size of the cable also affects cable loss; coaxial cables with higher center conductor diameters have less cable loss compared to thinner coaxial cables.

It is critical to avoid bending coaxial cables sharply to avoid shearing of the Aluminum foil shield, which can result in a significant or complete loss of antenna functionality.

Coaxial cables should not be bent sharply; they have a minimum bend radius which varies depending on the size of cable.

Low-E Windows and Wireless Signal Inside LEED-Certified Buildings



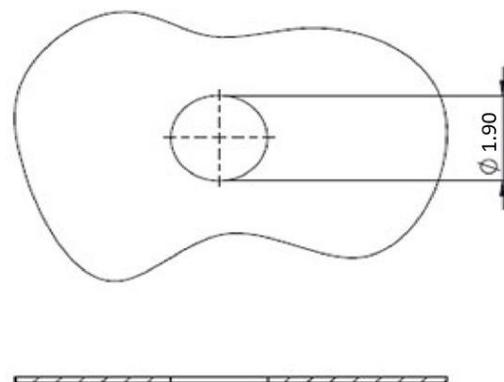
Hardware Accessories

Accessories	Part Number
Pole Mount Bracket	PTA1361
Magnetic Boot Mount (Black)	PTA1336
Lightning Arrestor - SMA(F) to SMA(F)	PTA0476
Lightning Arrestor - N(F) to N(M)	PTA0736
SMA Wrench, Key Chain	PTA0194
Service: Cable Sleeving (Priced Per Ft)	Cable Sleeving
Replacement Parts	
Replacement Rooftop Gasket Kit	PTA1313
Hardware Kit for 1.5" NPT Shaft - Nut/Washer	PTA1367

*Lightning Arrestors are recommended for outdoor installations

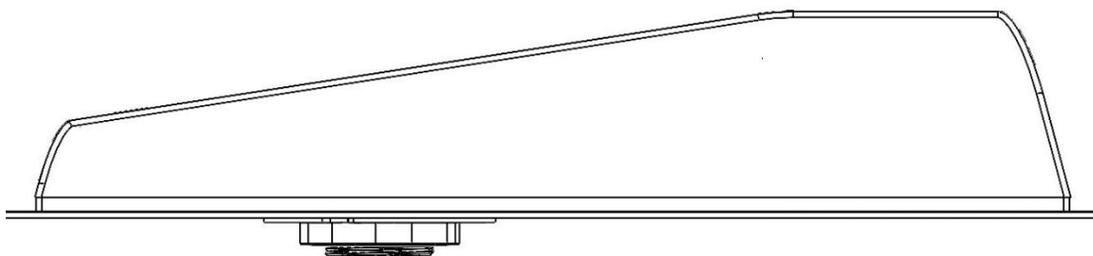
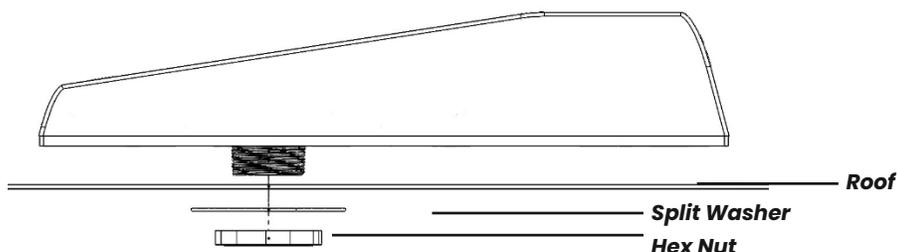
Preparing the Hole

1. After selecting the location to mount the Antenna, mask the mounting location to avoid paint damage. Mark the hole center with ink or scribed cross hairs.
2. Use a center punch to make a dimple on the marked location to avoid drill bits from walking across the sheet metal. Use a Twist drill of diameter about 0.1" and drill a pilot hole. Using a 1.9" diameter sheet metal hole saw, drill the hole.
3. The hole saw will cut the required diameter hole with less risk of stretching and distorting the vehicle surface.
4. Clean up any metal shavings around the mounting location.



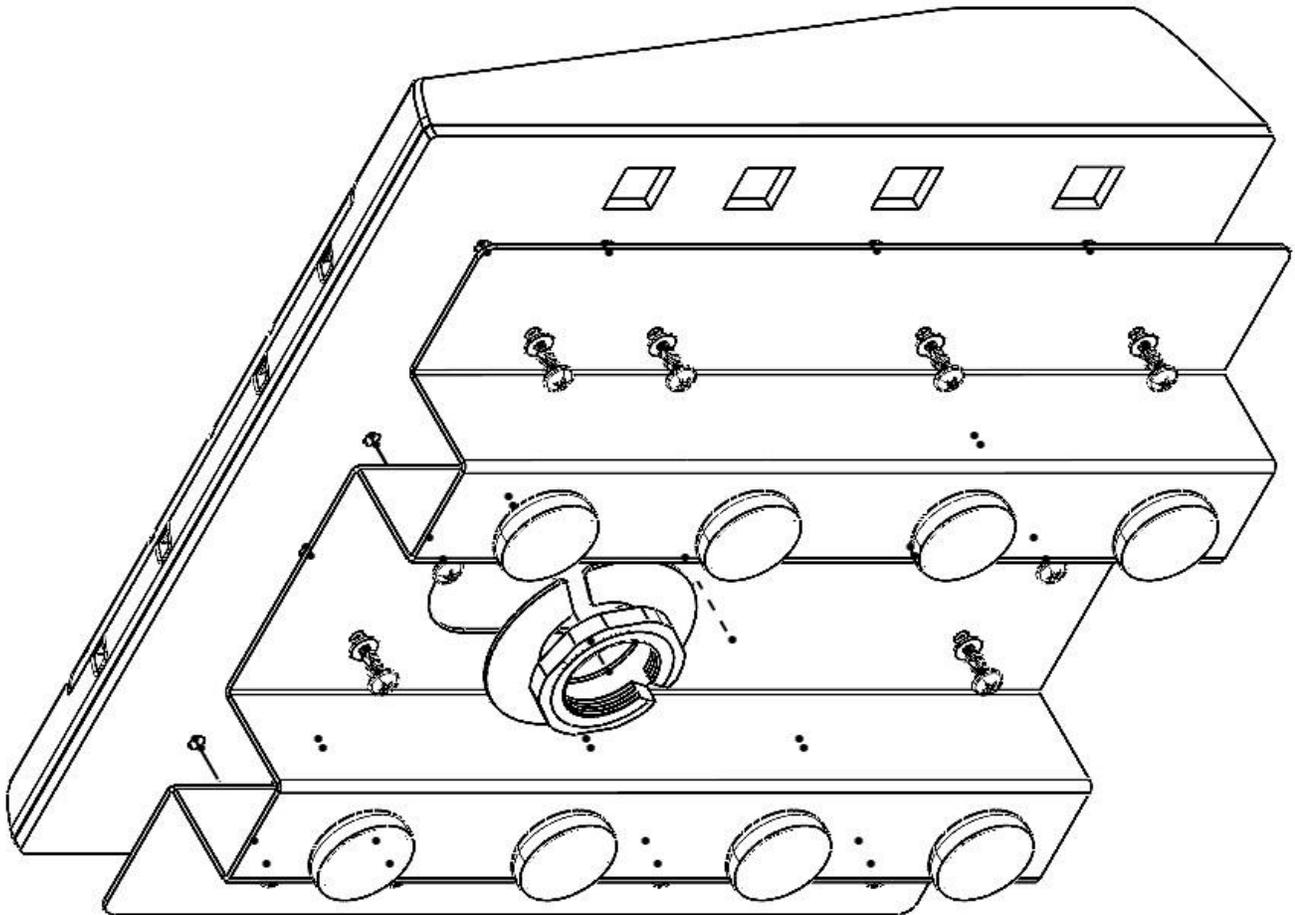
Mounting the Antenna

1. Feed the coaxial cables from the antenna through the hole from the outside surface to the inside surface and thread the entire length of the cable through the hole.
2. Clean debris off the vehicle surface and then mark the desired antenna orientation by placing the antenna flat on the vehicle surface.
3. Lift the antenna and remove the protective backing from the underside of the antenna and place the antenna back in the desired position. Apply downward pressure on the antenna to stick it to the panel. This step is optional if you plan to mount the antenna magnetically.
4. To avoid the gap between the antenna and panel, it is recommended to use neutral cure silicon sealant around the base of the mounting boot to fully compress the antenna to the mounting panel.
5. A split flat washer and a split hex nut are provided in the kit for easy installation.
6. On the inside of the vehicle, thread the flat washer over the cable and then the hex nut.
7. Slide the washers and nut to the threaded flange of the antenna and tighten the hex nut until antenna compresses flat with the surface of the vehicle.



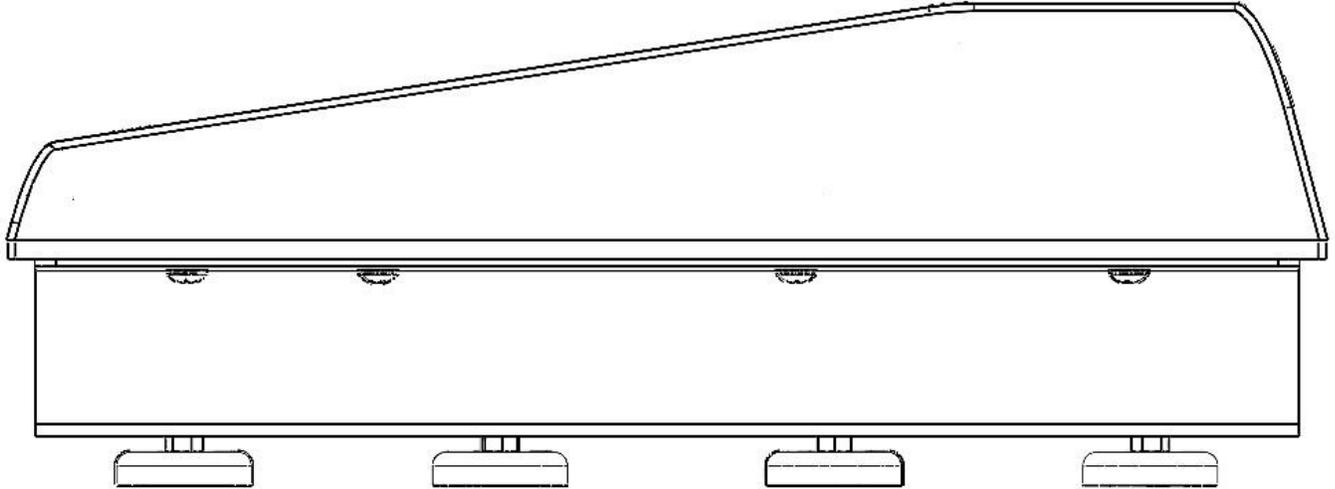
Magnetic Mount Instructions

1. Select the mounting location.
 - A. A horizontal, ferrous metallic surface is required for mounting the antenna. Check that the magnetic mount base has sufficient magnetic attraction to the mounting surface.
 - B. To avoid de-tuning or interference issues, install the antenna as far away as possible from other electrical devices (minimum 24 inches), including light bars, AC units, fans, cameras, routers, and other antennas.
2. Feed the antenna cables through the hole in the magnetic mount base.



3. Align the antenna with the magnetic mount base.
 - A. Secure the antenna to the magnetic mount using the Qty. 12: PTA1153 screws.
 - B. Guide the provided flat washer and hex nut onto the antenna cables.
 - C. Thread the flat washer and hex nut onto the antenna shaft, and tighten the hex nut using a wrench.
4. Place the antenna with the magnetic mount base onto the mounting location in the desired orientation.

5. Route the antenna cables towards the router.
 - A. Route the cables from the antenna to the router, maintaining a minimum bend radius of 1.5 inches. Avoid sharp bends.
 - B. Route the antenna cables adjacent to existing wiring as much as possible.

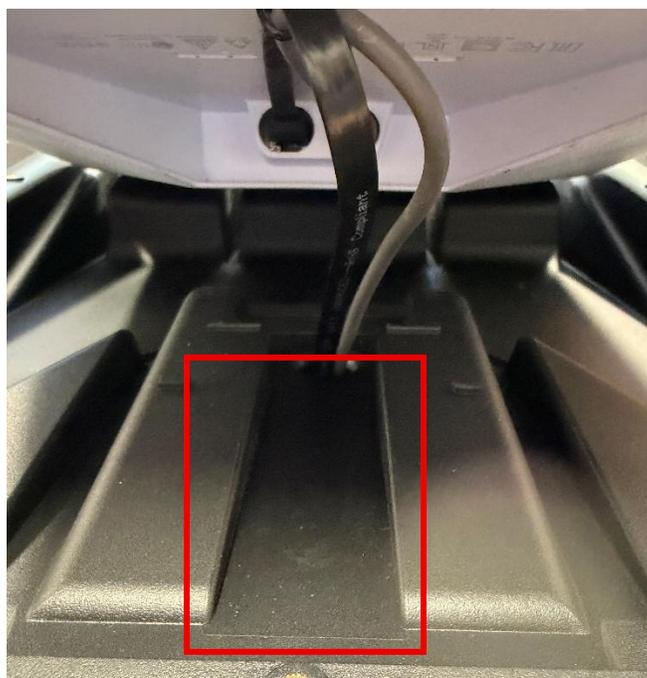


Starlink Mini Installation

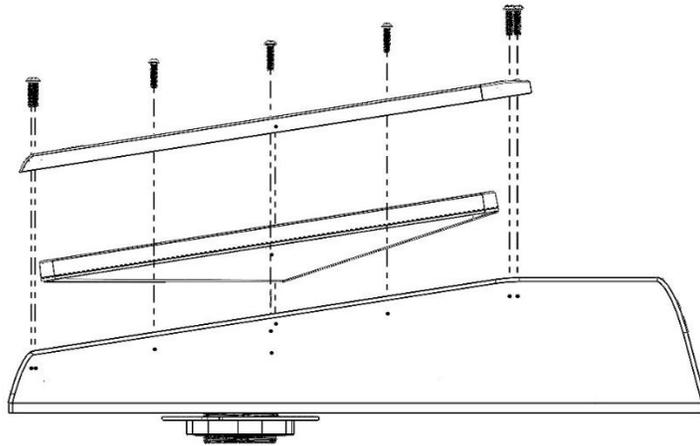
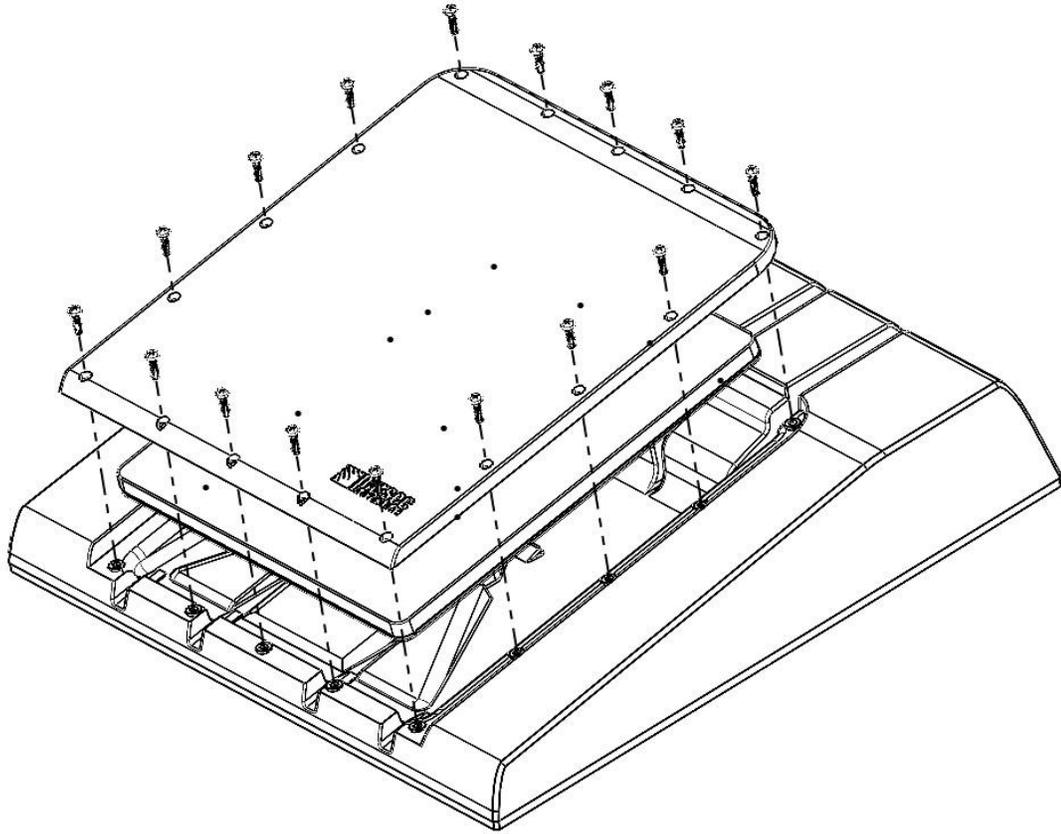
1. Unscrew the Qty. 4: PT1153 screws securing the Starlink Mini Cover.
2. Connect the Starlink Mini Power Cable and Ethernet Cable to the Starlink Mini.
3. Feed the cables through the hole in the Cane Corso:
 - A. Feed the Ethernet cable through first
 - B. Feed the Power cable through after
4. Use the provided zip ties and zip tie adhesive squares to secure the cables as shown below



5. Ensure the cables are fitting in the groove shown below and not being pinched by the Starlink Mini:



6. Install the cover for the Starlink Mini using the provided Qty. 16: PTA1153 screws.



Routing the Cables

1. Route the cables from the antenna to the router, maintaining a minimum bend radius of 1.5". Avoid sharp bends. Run the cables adjacent to existing wiring.
2. Waterproof the RF connectors using electrical tape or heat shrink tube, if required.

Cable Connection Instructions

1. Use a canned air and/ or isopropyl alcohol to clean all the connectors to ensure that there is no dust in the terminals.
2. Connect the antenna cables to the router. Use the table below for reference; different routers may have different terminal names. Use a 5/16" wrench to carefully tighten the connectors on the cables to the router terminals. It is recommended to use a 5 in.-lb. torque wrench to prevent overtightening.

Note: Do not apply more than 5 in.-lbs. of torque to SMA Connectors.

Note: Do not apply more than 9.7 in.-lbs. of torque to N Connectors.

Antenna Cable	Router Connection
CELL 1	MAIN 0
CELL 2	AUX 0
CELL 3	MAIN 1
CELL 4	AUX 1
CELL 5	MAIN 0 on 2 nd modem
CELL 6	AUX 0 on 2 nd modem
CELL 7	MAIN 1 on 2 nd modem
CELL 8	AUX 1 on 2 nd modem
GPS	GPS
Wi-Fi 1	2.4/5GHz, gold left
Wi-Fi 2	2.4/5GHz, gold right
Wi-Fi 3	2.4/5GHz
Wi-Fi 4	2.4/5GHz
Bluetooth	BT

For best MIMO performance use the following in pairs:

- CELL 1 & CELL 2
- CELL 3 & CELL 4
- CELL 5 & CELL 6
- CELL 7 & CELL 8
- WIFI 1 & WIFI 2
- WIFI 3 & WIFI 4

Commission and Testing

Check each coaxial cable connector and confirm that it cannot be easily loosened. Visually inspect the coaxial cables to ensure that they are not sharply bent and are sufficiently secured and supported between the antenna and the router.

Use a cellular device's built-in diagnostics to confirm the RSSI is higher than -75dB. Confirm the cellular connection supports communications at required data rates.

Connect the GPS/GNNS cable to the GPS/GNNS receiver and check for satellite acquisition.

Connect the cellular/LTE & WLAN/Wi-Fi cables to the router and stow any unused coaxial cables to avoid damage.



CAUTION

To comply with FCC RF Exposure requirements in section 1.1310 of the FCC Rules, antennas used with this device must be installed to provide a separation distance of at least 20 cm from all persons to satisfy RF exposure compliance.



DO NOT

- Operate the transmitter when someone is within 20 cm of the antenna
- Install the antenna or mast assembly on a windy day
- Install the mast close to power lines as it can cause serious injuries or death



WARNING

Watch out for overhead power lines. Check the distance to power lines before beginning installation.



WARNING

This document is for general information only. It cannot be used for a warranty. Performance and other data contained were obtained in internal lab tests under ideal conditions, and performance may vary due to network variables, different network environments and other conditions. Parsec Technologies Inc. will not accept any liability for any damage caused by an antenna due to unknown variables. Parsec Technologies Inc. reserves the right to change, modify, transfer, or otherwise revise this publication without notice, and the most current version of the publication will be applicable.

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