



PS-6CRBP

ParkAlert Roof and Bumper Rear Sensing System

INSTALLATION MANUAL



C O M M E R C I A L

Thank you for purchasing the **PS-6CRBP**

WHAT'S INCLUDED:

- (6) Surface-mount sensors with 18" pigtail
- (6) Rubber Sleeves
- (6) 6° Sensor Bezels
- (6) 12° Sensor Bezels
- Control Module
- Speaker with Volume Control
- Main Sensor Harness
- Roof Sensor Harness
- Power/Speaker Harness
- 24.5mm Metal Hole Saw
- Install Accessory Pack

This ultrasonic detection system is designed to assist in the avoidance of obstacles while reversing.

Disclaimer:

This system is strictly a driver assistance device, and should not be relied upon as a substitute for safe driving practices. Use common sense when parking and always follow recommended safe driving guidelines from your local, State and County Department of Motor Vehicles regarding parking procedures. To help prevent accidents, always use caution when parking, looking visually to ensure your path is clear. Keep speeds under three miles per hour. The owner shall not be entitled to recover from the Company, its successors or assignees, incidental and consequential damages, such as personal injury, loss of income, loss of time, loss of profits, loss of vehicle use or property damage. No employee, agent or representative of the Company or the Selling Retailer may modify, alter or extend this Warranty in any way. This Warranty gives you specific legal rights. You may also have other rights under this Warranty which may vary from state to state.

Note: Under no circumstances should you attempt to open the control box or any other component. Doing so will void all manufacturer's warranties.



C O M M E R C I A L

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Recommended Tools:

- High Torque Drill with low RPM setting for drilling metal
- Grease Pencil and Center Punch for marking drill point
- 1/8" carbide-tipped drill bit for starting pilot hole
- Pliers, Crimpers and Soldering Iron
- Multi-Meter
- Zinc Galvanizer or a rust inhibitor for metal
- Angle Gauge Sleeve Selector
- Measuring Tape
- Panel Pry Tool
- Wire Pulling Tool
- Semi-circular metal file (for smoothing hole edges when necessary)

Installation

Determining Sensor Position: Measure Twice, Drill Once

Inspect behind the bumper in the approximate mounting area to check for any possible obstructions.

A proper installation will take into consideration two factors:

(1) Placement: height and distance on either side of the mounting surface center (refer to diagram on page 4)

(2) Angle: accurate detection depends on the correct sensor angle

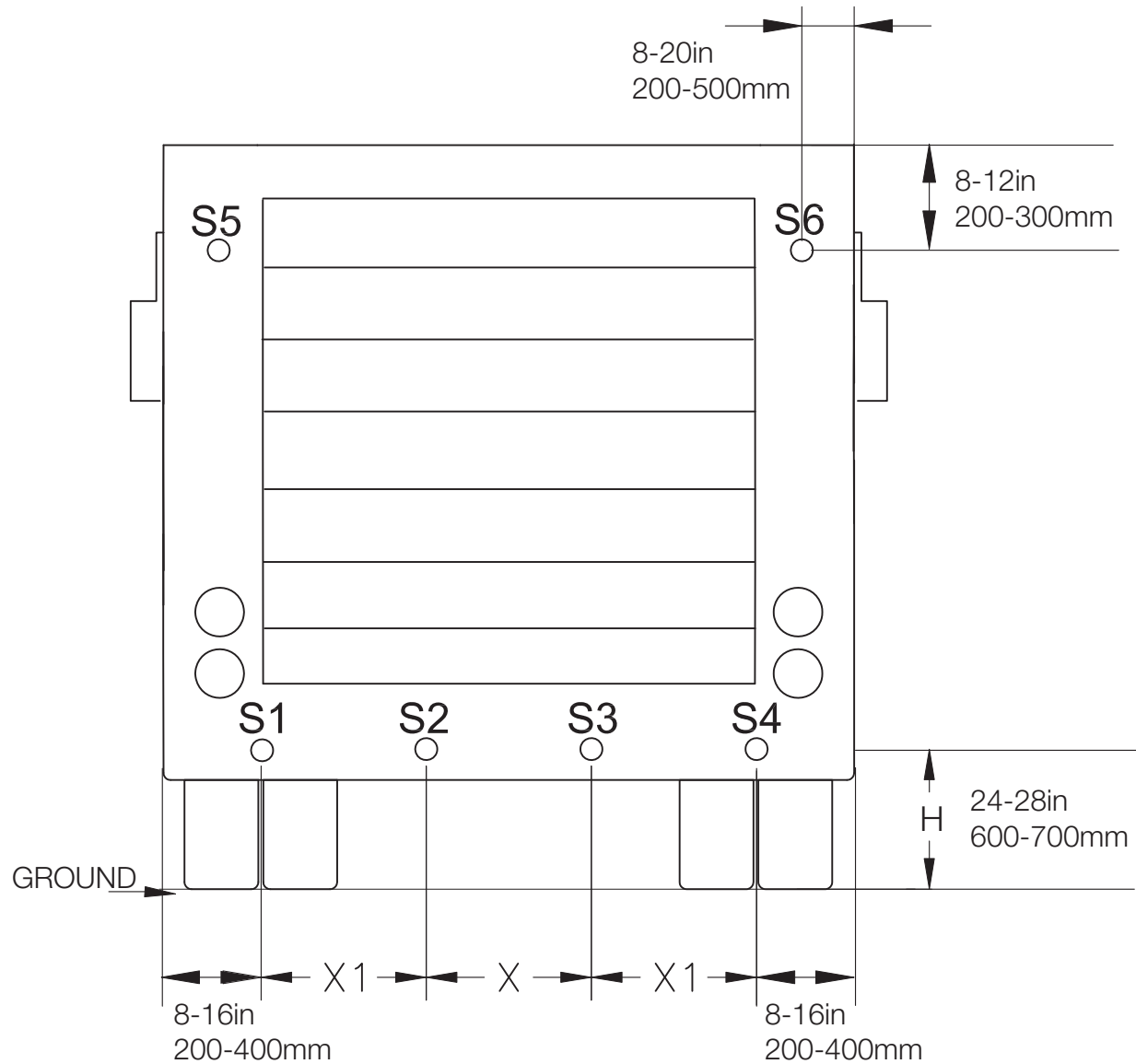
The sensors need a 1" clearance space behind the mounting surface to be completely inserted. Some bumpers have an outside cover or fascia and a metal backing. You may have to drill through both layers to ensure you have enough clearance in order to fit the sensors. Other bumpers require some removal of foam backing.

CAUTION: Be careful of hot parts and/or sharp edges under the bumper.

DO NOT INSTALL SENSORS ABOVE EXHAUST PIPE. Doing so may cause false alerts.

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Sensor Placement



Vehicle Width	X1	X
<87in/2200mm	16in/400mm	16in/400mm
<87in/2200mm	16in/400mm	24in/600mm
>87in/2200mm	24in/600mm	24in/600mm

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Drilling Holes and Installing Sensors

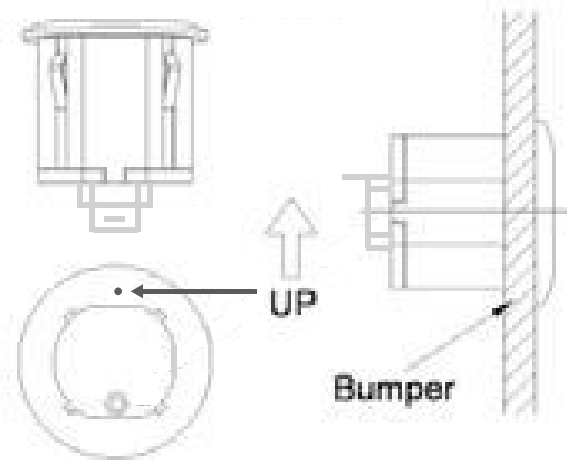
Warnings/Precautions: Please consult with us before installing on a vehicle with any rear mounted external appliances which may interfere with the system's detection and cause false detection.

(1) The Sensor Holes

Using the provided Hole Saw, drill the sensor holes. Always wear approved safety glasses when drilling and use caution. If drilling through metal, coat edges of holes with Zinc Galvanizer, a rust inhibitor. Metal bumpers also require the use of rubber sleeves with installation of sensors.

(2) Mount Sensor

Ensure correct angle sleeve is being used. Insert sensor with the “up” marking facing up. Rubber sleeves must be oriented with the ‘UP’ notation mounted up.



Connecting the Power Harness

Use a Multi-Meter to locate the reverse wire at the vehicle's tail lamp. The reverse wire will register 12 volts when the vehicle is in reverse and 0 volts when not in reverse.

NOTE: Never Use A Test Light To Probe Wires.

It is recommended to solder all connections.

Once the reverse wire is found, connect the red wire from the power harness to it. Connect the black ground wire from the harness to the vehicle's ground wire. Route cable to control module and plug in.

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Routing Sensor Harnesses to Control Module

Many vehicles will have factory grommets to allow routing of wires from the outside to the inside of the vehicle. If drilling a hole through a metal body panel to route the sensor wires into the vehicle, determine where the sensor wires will enter into the vehicle and route to the control module.

Mounting Speaker and Setting Volume

The speaker has 3 volume adjustment positions: High, Low and Off.

Clean the mounting surfaces, affix adhesive to the back of the speaker and firmly press the speaker into place. Connect the speaker to the connector on the power harness.

Mounting the Control Module

Mount the control module behind one of the vehicle's body panels. Clean a suitable location. Plug in all connectors. Finish by securing any loose and/or excess wiring. Before reassembling any panels that might have been removed, test the system.

Operating Guide

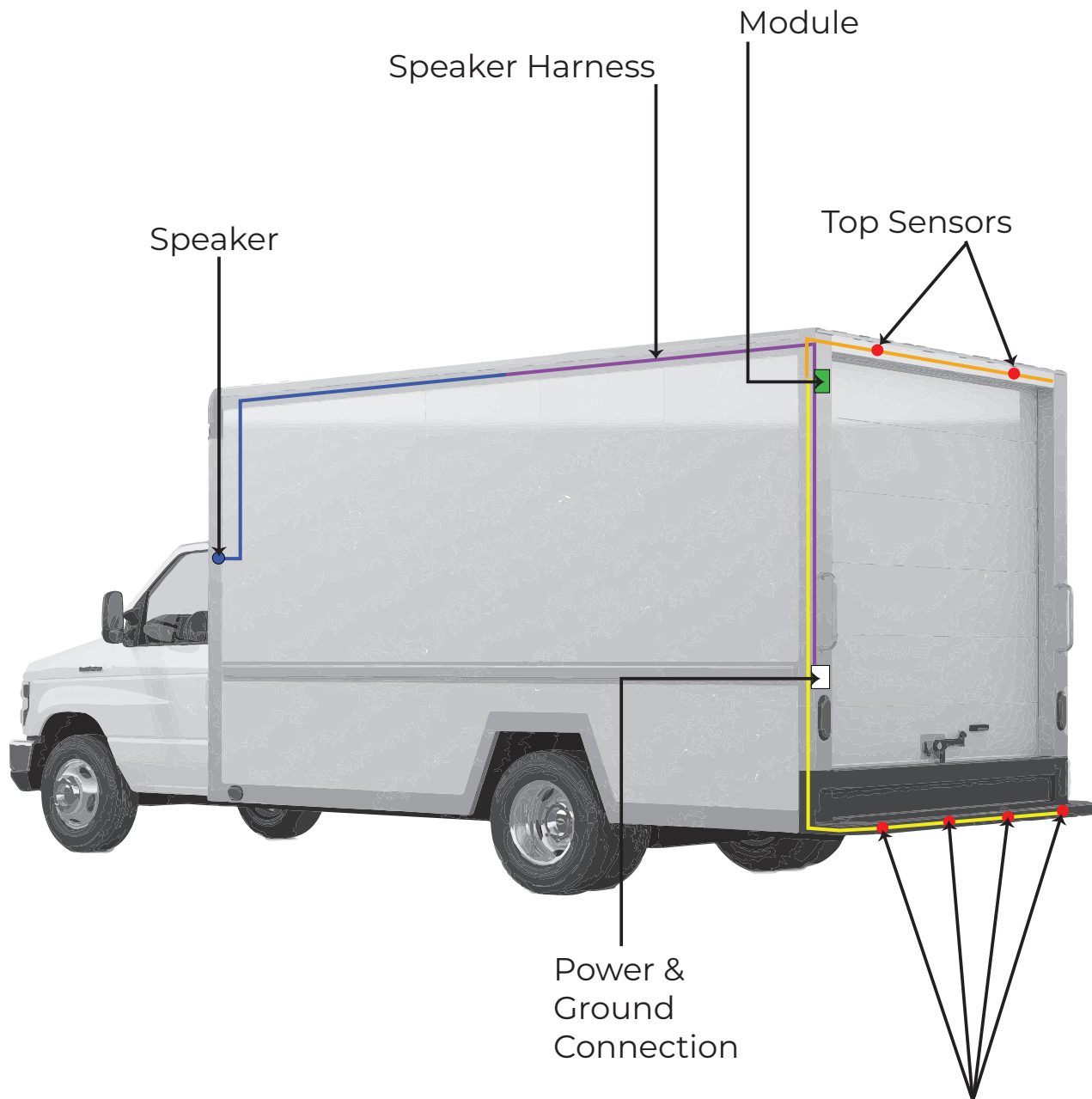
System will become engaged when vehicle is put into reverse. The system should beep one time when reverse is activated to notify the driver that it is on and working. Once an object is detected within the range, the system will alert the driver via audible tone.

Distance	Awareness	Alarm Sound	Top / Bottom
< 12" / < 0.3m	Danger	Constant Tone (Biiiiiiiiiiiiii)	Yes / Yes
12" - 19" / 0.3 - 0.5m	Danger	Bi. Bi	Yes / Yes
19" - 27" / 0.5 - 0.7m	Caution	Bi.. Bi	Yes / Yes
27" - 35" / 0.7 - 0.9m	Caution	Bi... Bi	Yes / Yes
35" - 47" / 0.9 - 1.2m	Safety	Bi.... Bi	Yes / Yes
47" - 67" / 1.2 - 1.7m	Safety	Bi..... Bi	Yes / No
> 67" / > 1.7m	Outside Range	None	No / No

NOTE: The chart reflects the default zone range. Performance may be affected by the following: Heavy rain, loose gravel/bumpy road, steep slopes, flat/smooth surfaces.

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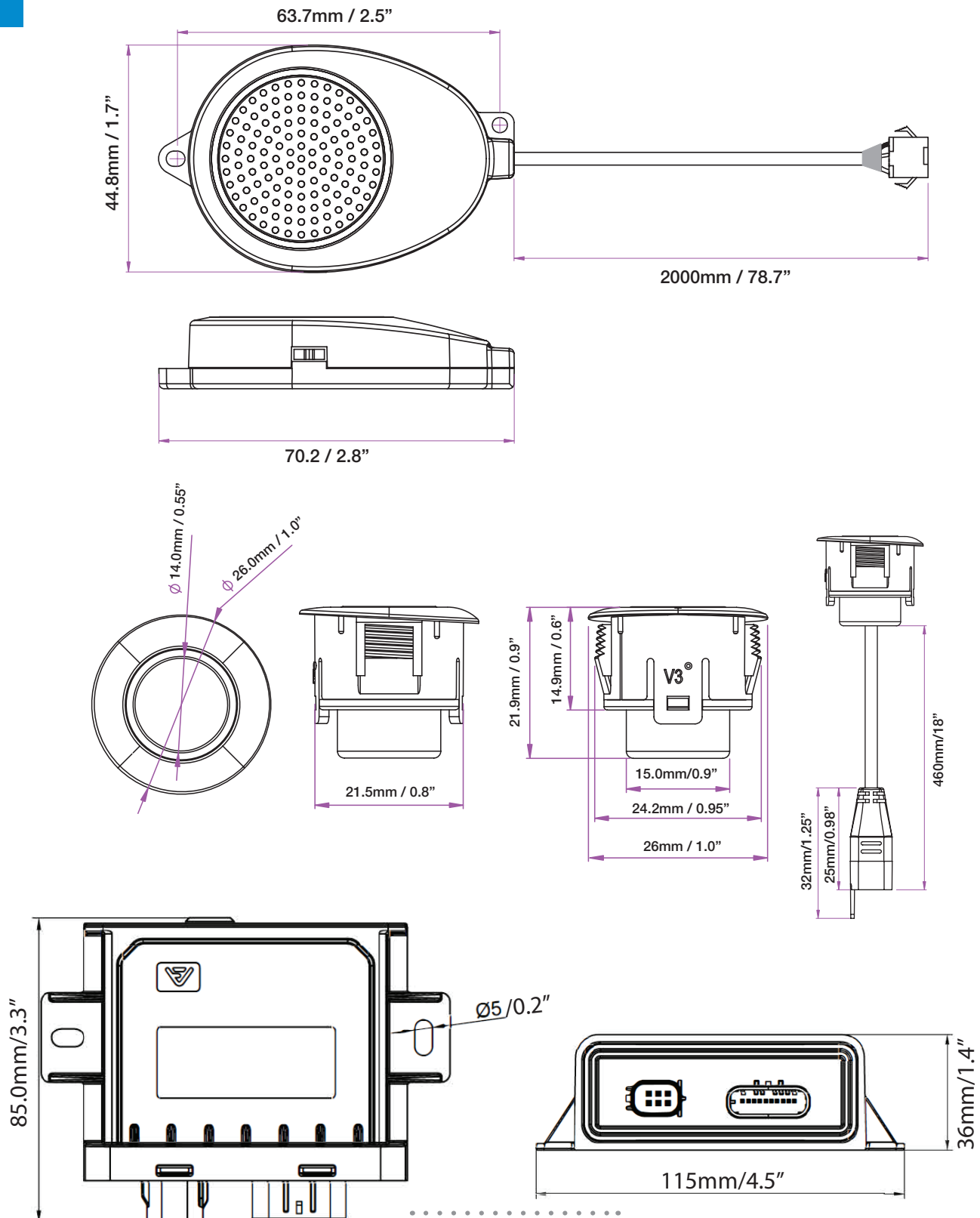
Wiring Diagram



Top Sensor Harness - Orange
Module - Green
Speaker- Blue
Main Harness - Yellow
Power/Speaker Harness - Purple
Sensors - Red

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Dimensions (mm/in)



Specifications

PS-6CRBP	
Operating Voltage Range	9-16V DC
Rated Voltage	12V DC
Rated Current	<350 mA
Operating Temperature	-30°C - 80°C
Waterproof Grade (Sensors & Module)	IP67
Detection Range (Top / Bottom)	3.9' (1.2m) / 5.6' (1.7m)
Main Sensor Harness Length	19.1' (5.8m)
Hole Saw	24.5mm (use with Rubber Sleeves)
Angle Sleeves	6° and 12°

Troubleshooting

PROBLEM	REASON	SOLUTION
System doesn't react when reverse is engaged	System is not powered up or wrong connection of power cable	Check the power and ground connections
	Invalid connection between speaker and control module	Check the connection between speaker and control module
After activation, system continuously beeps for 3 seconds	Invalid connection between sensors and control module	Check the connection between sensors and control module
	All sensors are defective	Replace the defective sensors
False alarms	Sensors pointing down	Change the angle sleeve
	Sensors rotated	Note 'UP' marking on the sensor and adjust accordingly

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