



PRO OES

Front-Rear Parking Sensor

Installation Manual

PRO22218 (Buzzer)

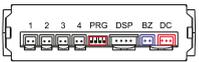
PRO43218 (LCD)



10R-05 1524

Contents of the Box

Set Code:22218/43218

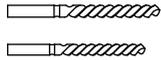
 <p>Rear ECU Quantity: 1pc</p>	 <p>Front ECU Quantity: 1pc</p>	 <p>Buzzer * Quantity: 1pc</p>	 <p>LCD Display * Quantity: 1pc</p>	 <p>Sensor Quantity: 8pc</p>	 <p>Front On-Off Switch Quantity: 1pc</p>
 <p>Rear Wire Harness Quantity: 4pc 2,5m</p>	 <p>Front Wire Harness Quantity: 4pc 4,5m</p>	 <p>Rear Power Cable Quantity: 1pc</p>	 <p>Front Power Cable Quantity: 1pc</p>	 <p>Connection Wire Quantity: 1pc</p>	 <p>Silicon Ring Quantity: 8pc</p>
 <p>Sticker Quantity: 1pc for buzzer</p>	 <p>Sticker Quantity: 2pc for ECU</p>	 <p>Angled Sleeves Quantity: 8pc</p>	 <p>Angled Sleeves Quantity: 8pc</p>	 <p>Angled Sleeves Quantity: 8pc</p>	 <p>Drill Bit Quantity: 1pc 20 mm</p>
 <p>Sticker Scotchlok</p>	<p>Optional</p>  <p>16,4mm For Flush Mount</p>				

* Depend on Model

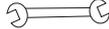
Tools



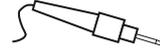
Electric Drill



Drill Bit 10mm \varnothing
Drill Bit 4mm \varnothing



17 wrench



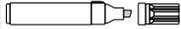
Soldering Tool



Solder Wire



Insulating Tape



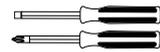
Marker



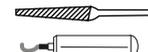
Cable Cutter



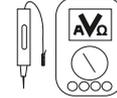
Tape Measure



Screwdriver



Rasp and Cutter



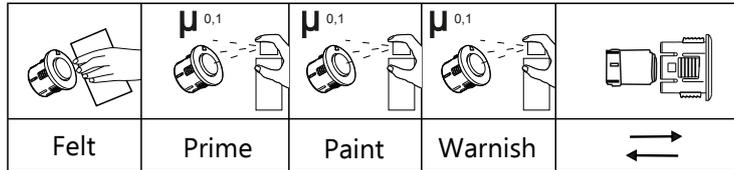
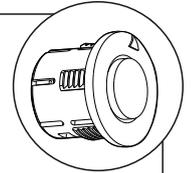
Testmeter



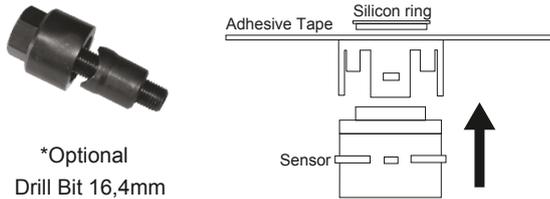
Heat Blower



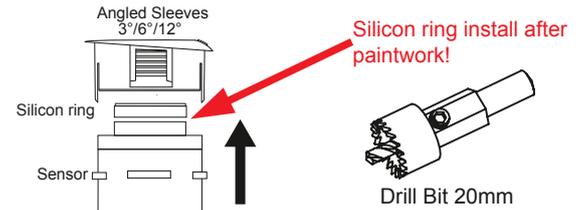
Alcohol



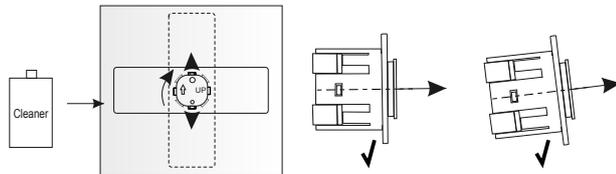
Flush Mount



Outside Drill

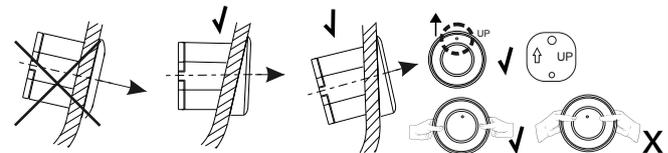


When mounted in the bumper, the adhesive holders can be mounted horizontally or vertically. The arrow on the back of the sensor and the lettering UP must always be directed upwards. Use only this model when the sensors are horizontal or slightly upwards.



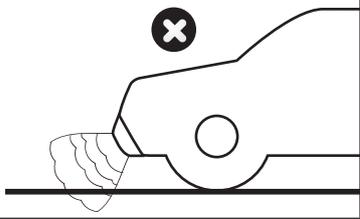
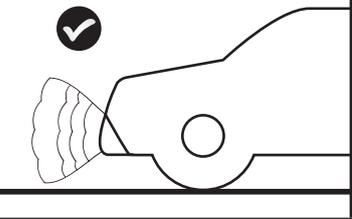
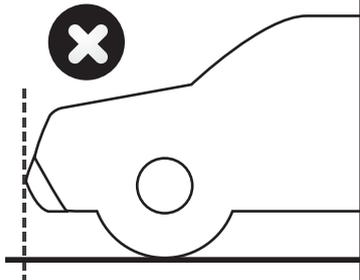
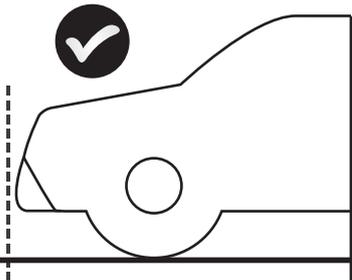
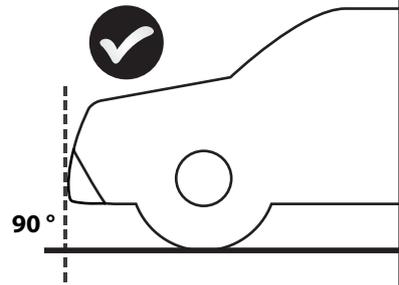
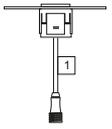
The bumper surface must be dedusted and degreased before stick.

The sensors must never be directed downwards. Use the appropriate mounting sleeves so that the sensors are in a horizontal or slightly upwards position. The point on the front of the sleeve as well as the arrow and the label up on the rear of the sensor must face upwards.

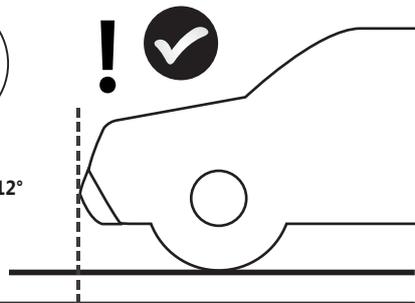
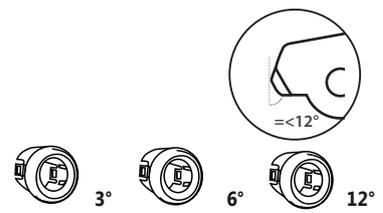
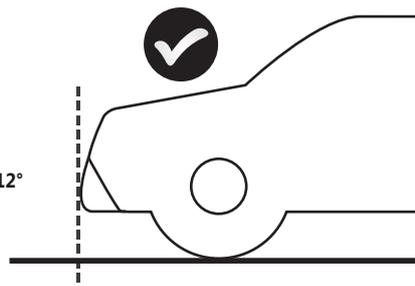
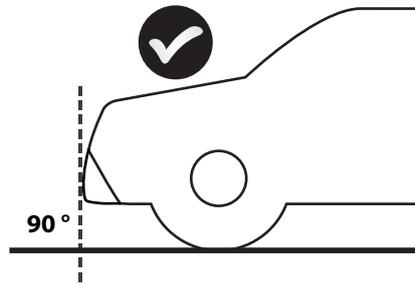
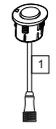


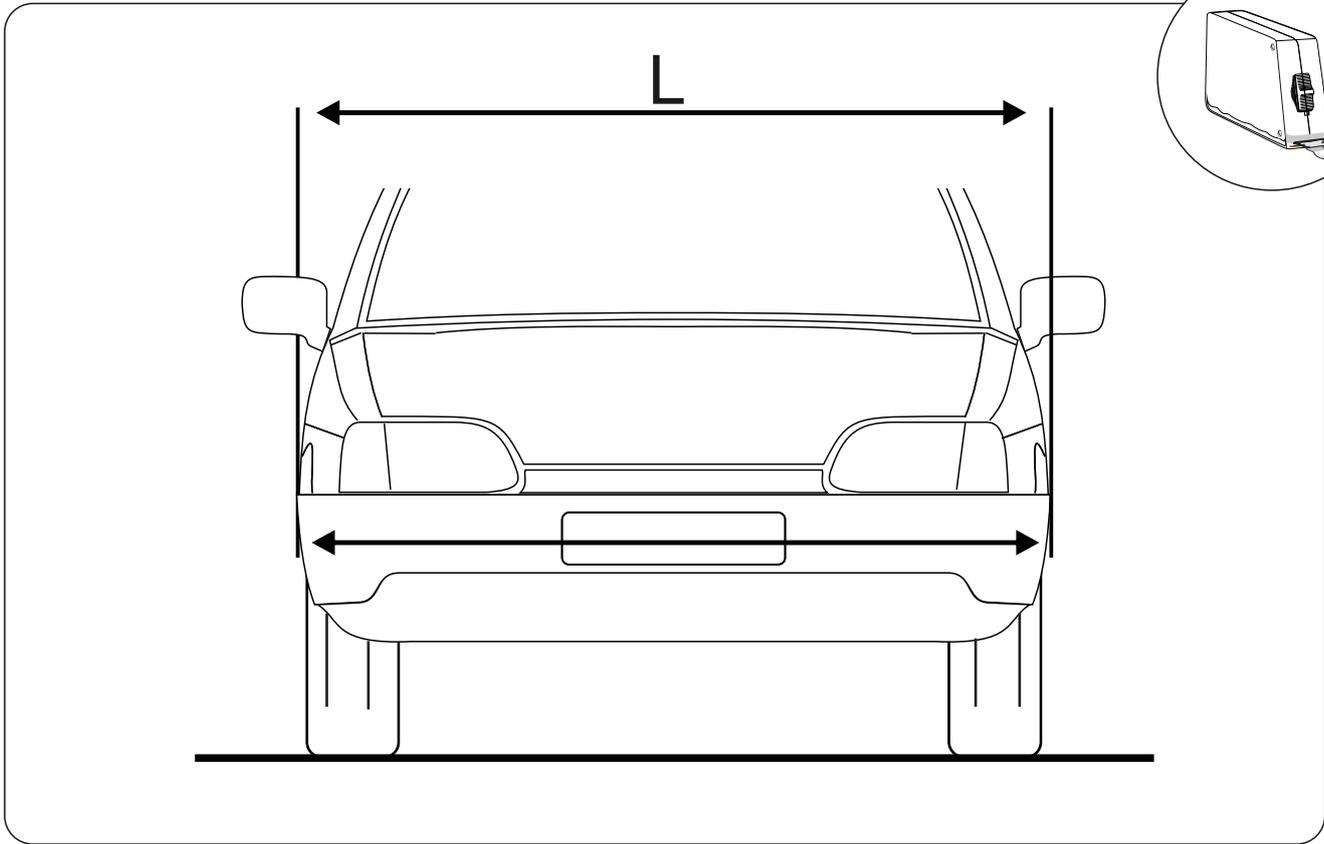
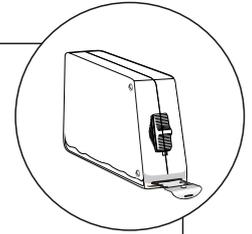
The sensors may only be mounted with pressure on the sleeve

Flush Mount Type



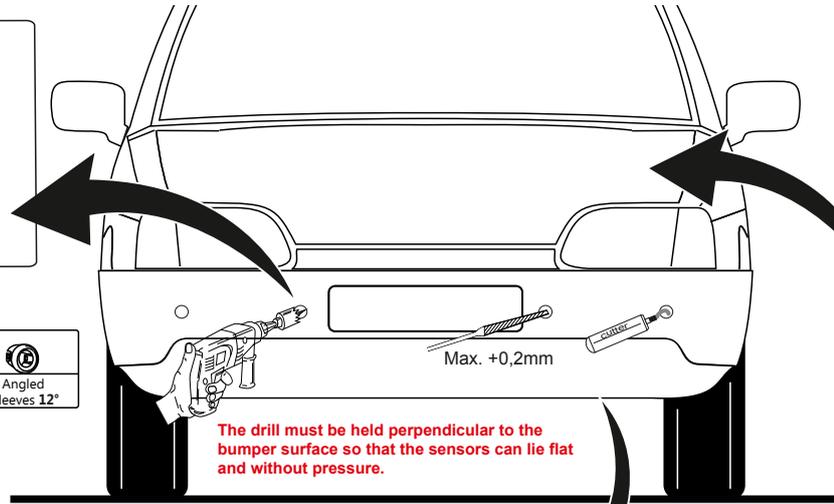
Outside Drill Type





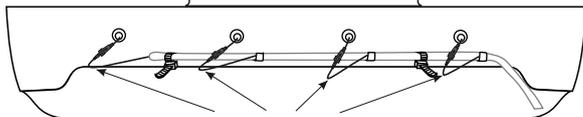
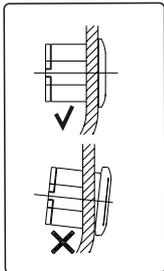


The sensors must not be mounted very tight, as this can lead to problems. Since the supplied drill bit has a very suitable diameter, the holes can easily be expanded as required.



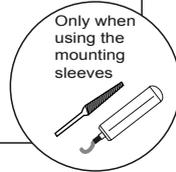
The drill must be held perpendicular to the bumper surface so that the sensors can lie flat and without pressure.

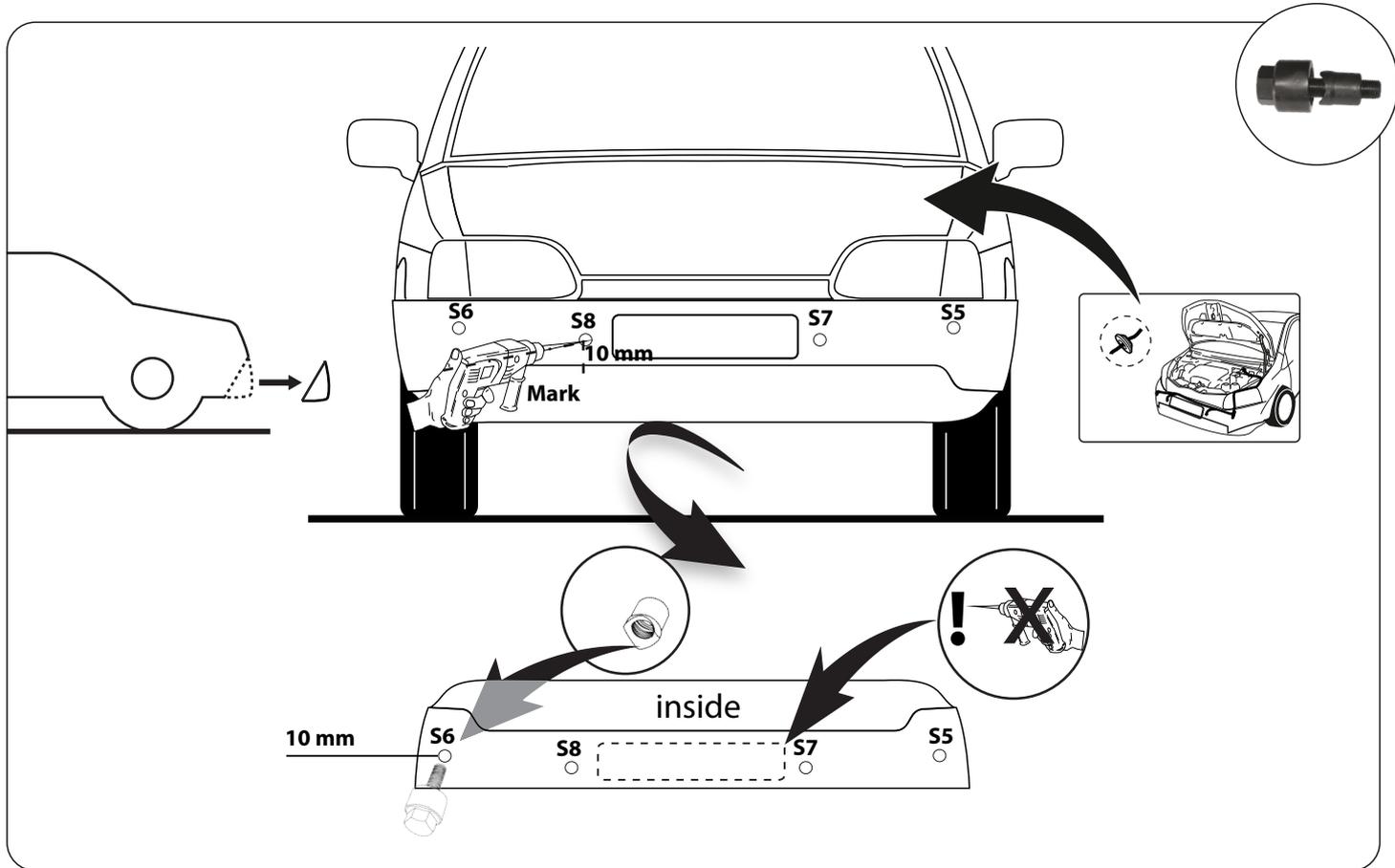
- Angled Sleeves 3°
- Angled Sleeves 6°
- Angled Sleeves 12°

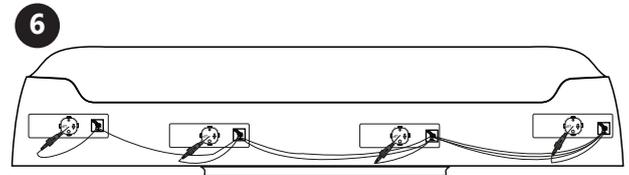
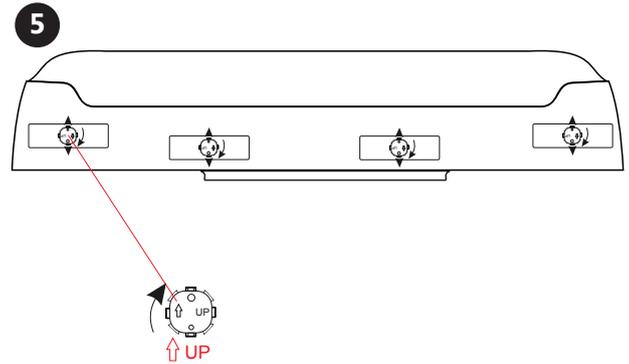
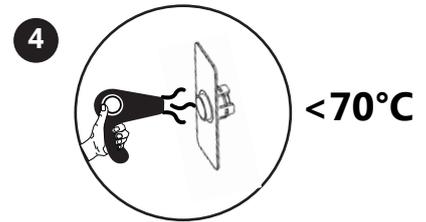
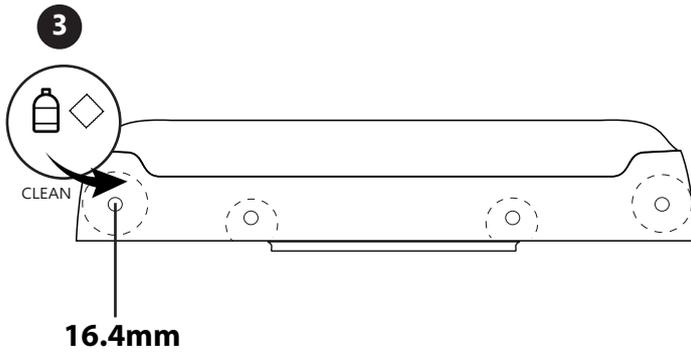
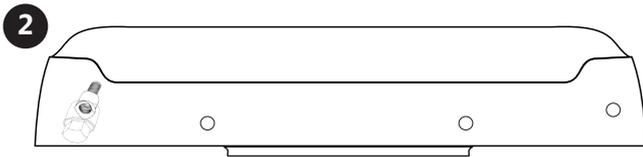
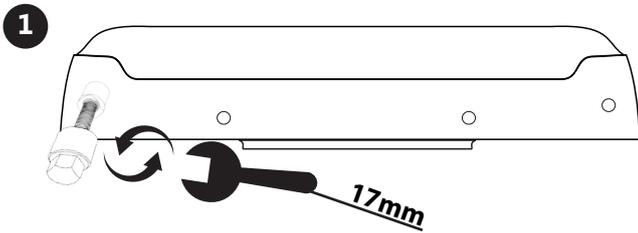


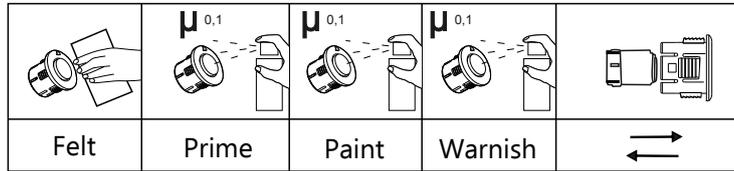
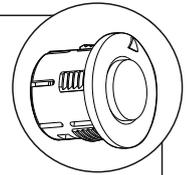
Leave sufficient sensor line clearance free to allow a later change of the sensors without disassembling the bumper (~20cm)

For many vehicles it is advisable to remove the bumper

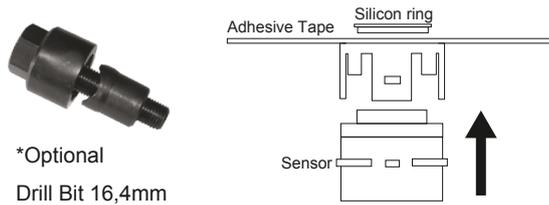




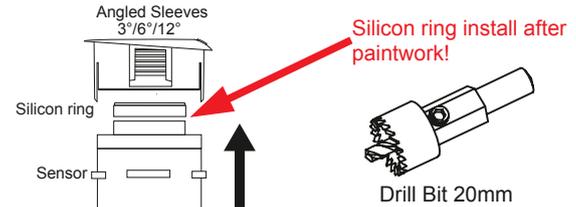




Flush Mount

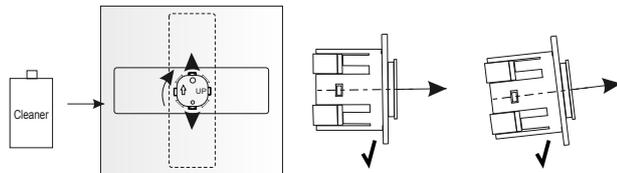


Outside Drill

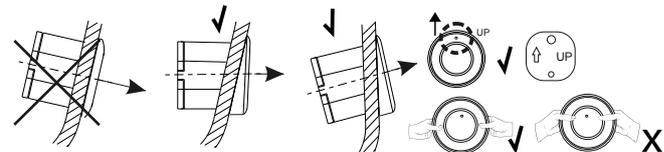


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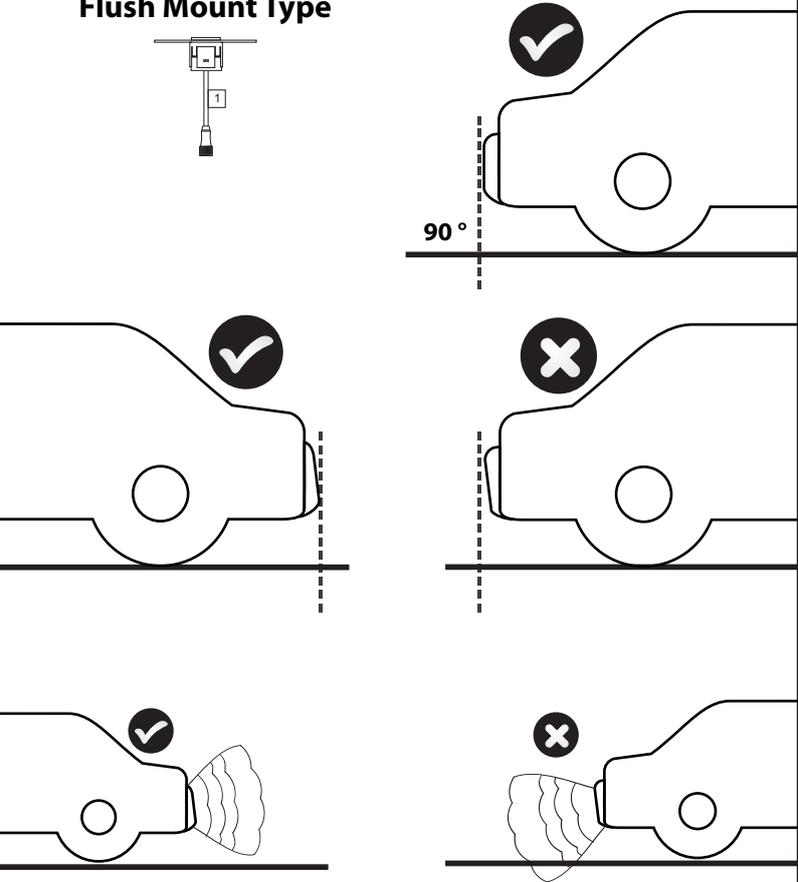
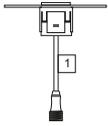


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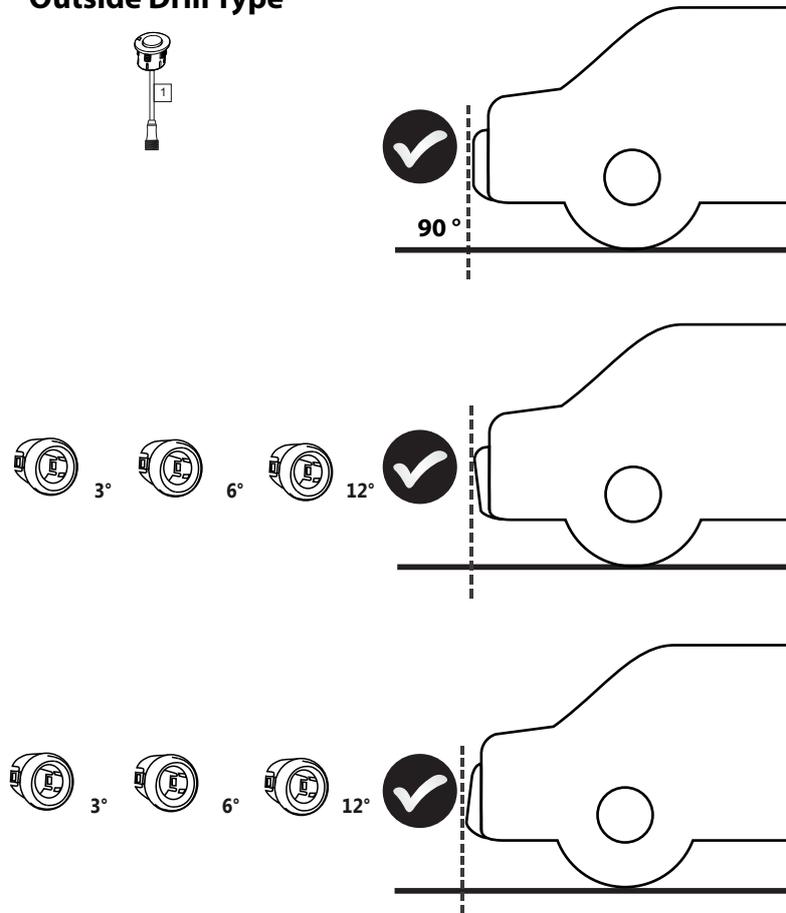
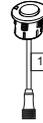


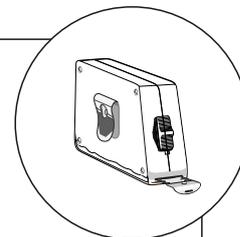
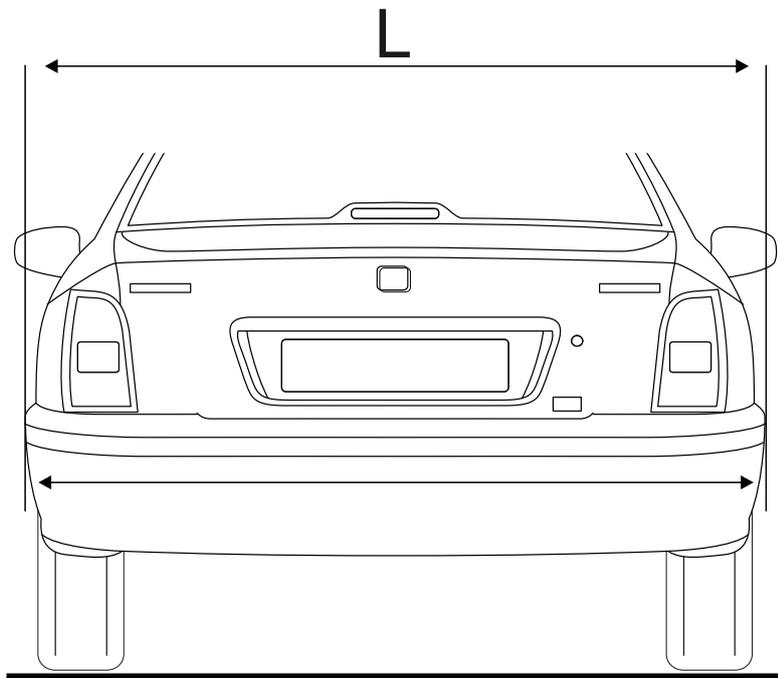
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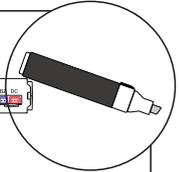
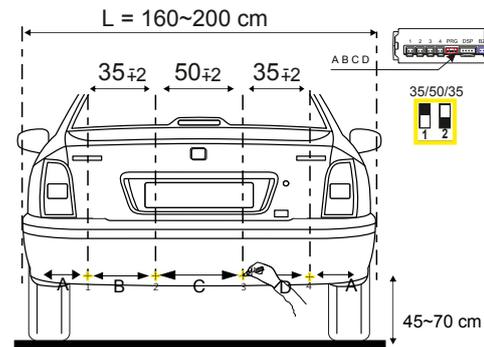
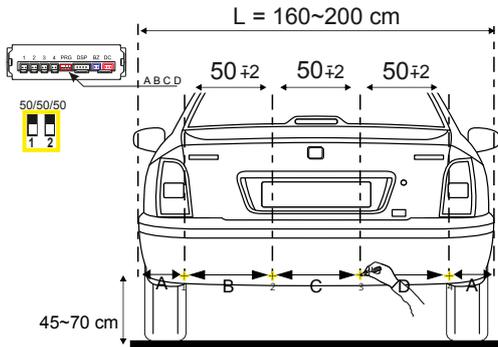
Flush Mount Type



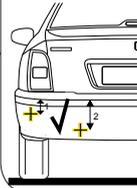
Outside Drill Type



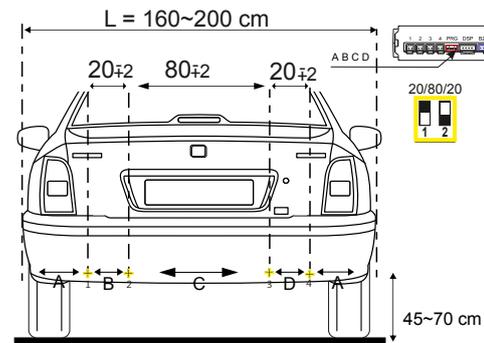
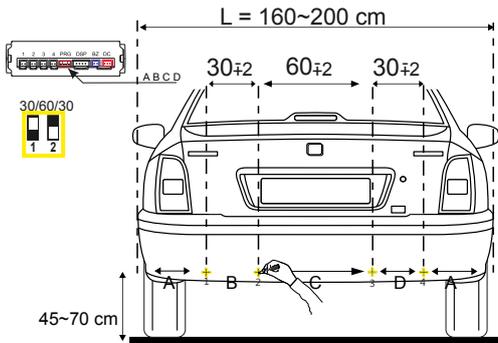




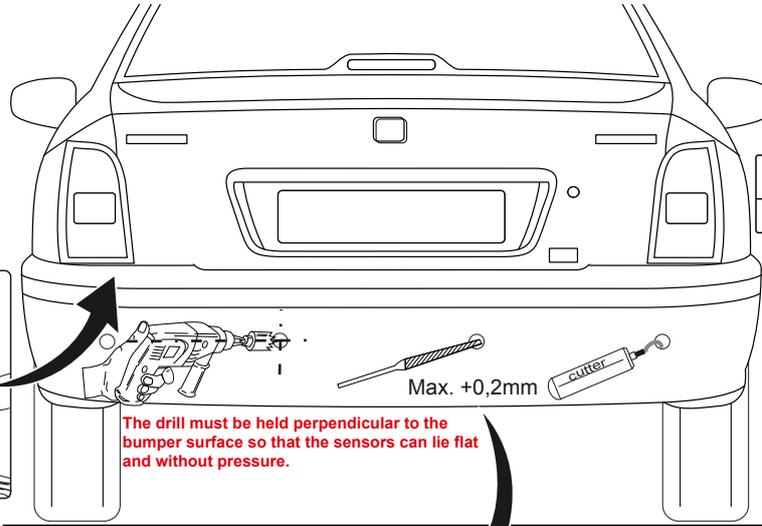
The sensors can be installed at different heights



Different distance adjustment can be programming through pc with our special pc software.



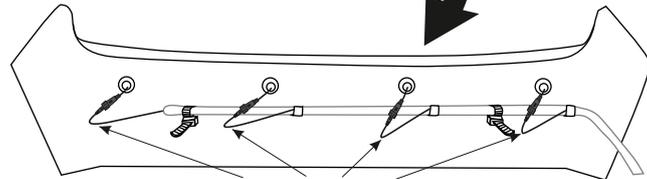
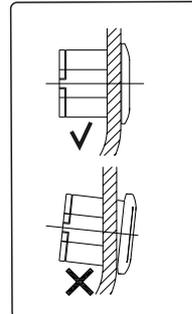
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Max. +0,2mm

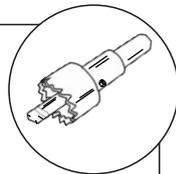
The drill must be held perpendicular to the bumper surface so that the sensors can lie flat and without pressure.

Angled Sleeves 3°	Angled Sleeves 6°	Angled Sleeves 12°

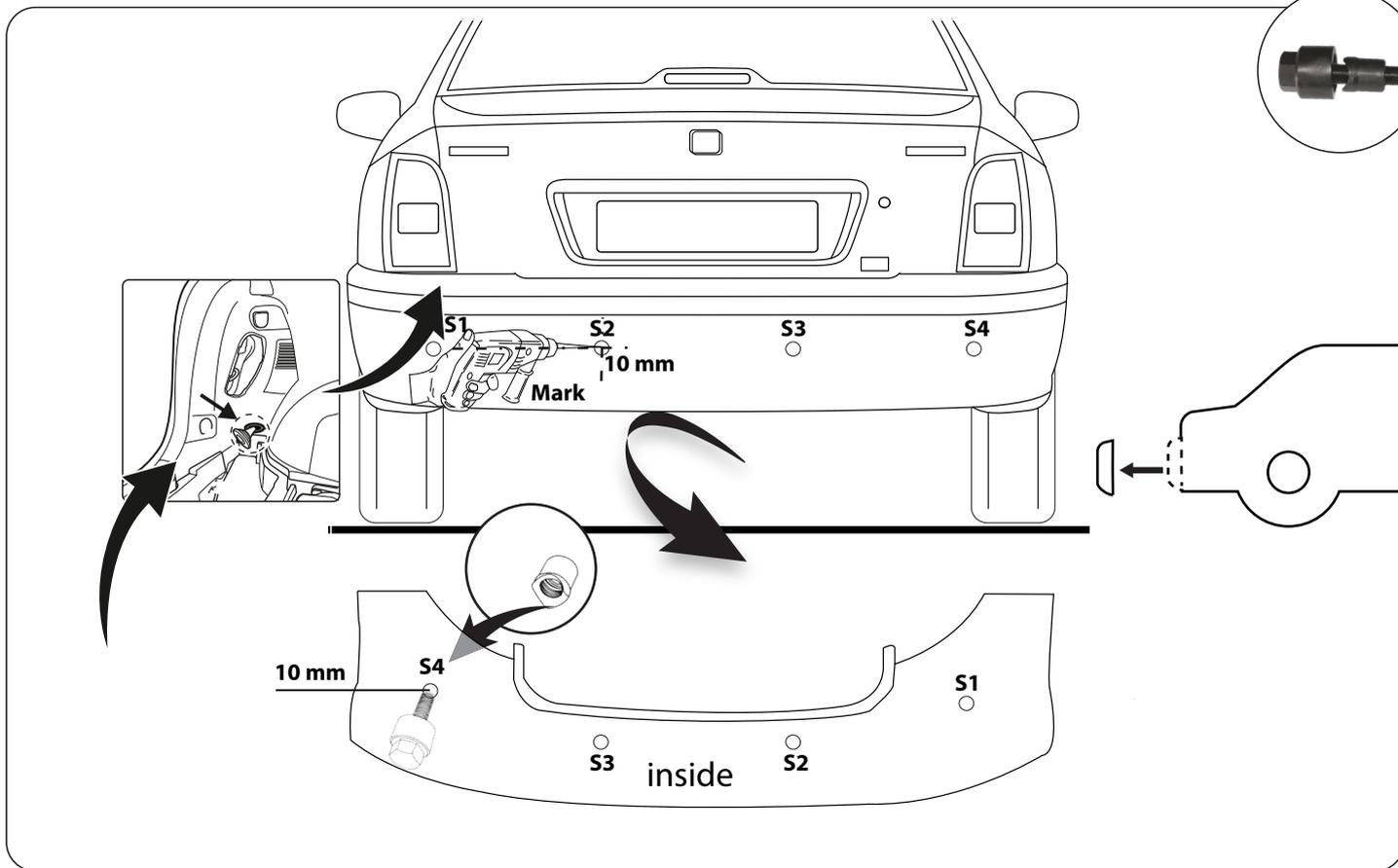


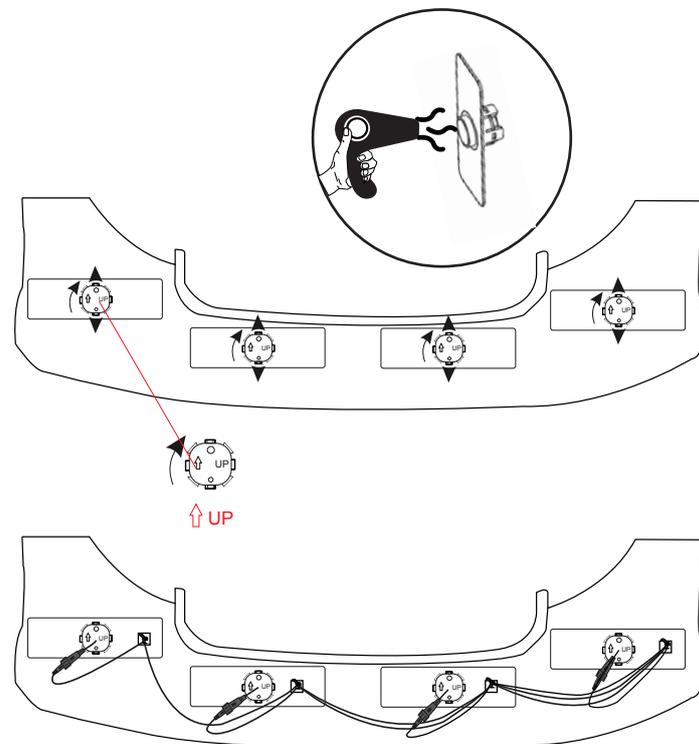
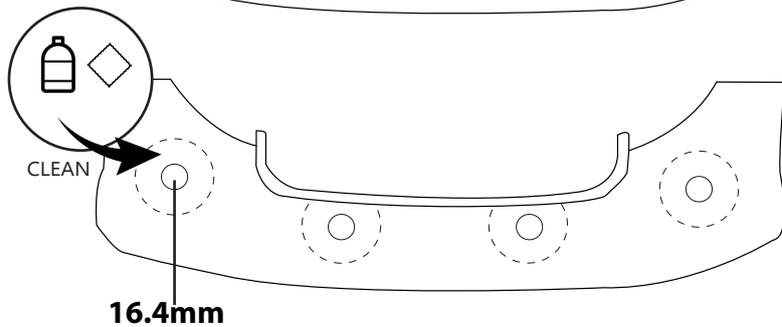
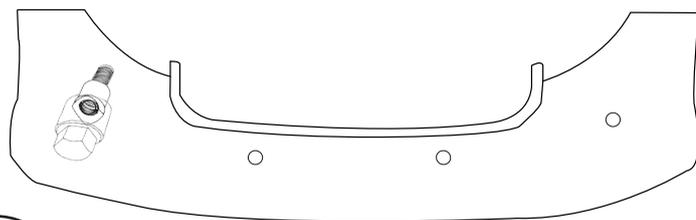
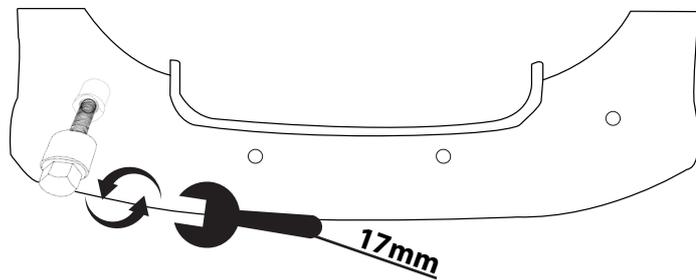
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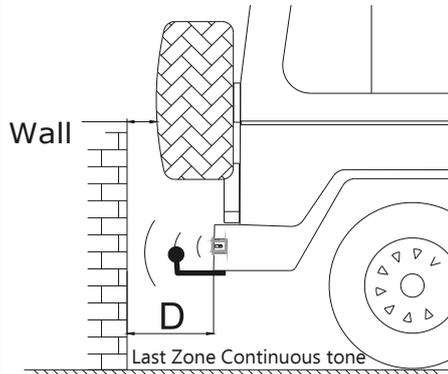
Only when using the mounting sleeves



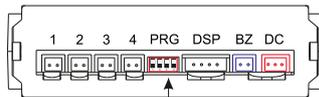


REAR

Distance for



For vehicles with a spare wheel mounted on the tailgate or with trailer coupling, the warning zone for the last zone (duration) can be extended from 30 to 50 cm.



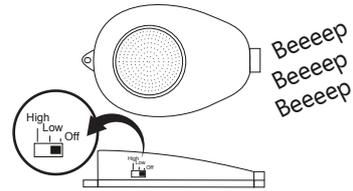
30 cm



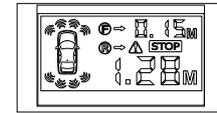
50 cm



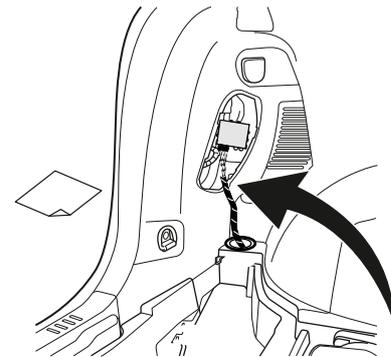
Volume



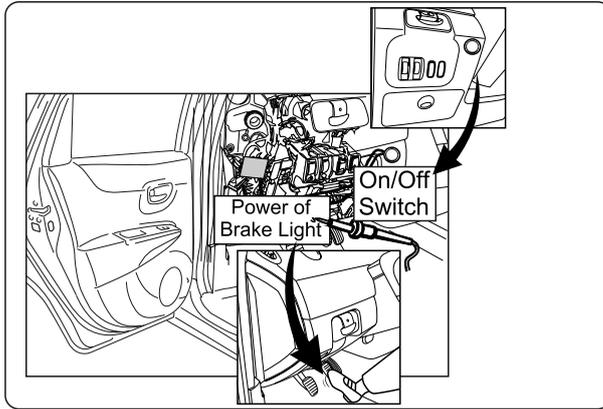
Set the volume with the slide switch to a good audible level



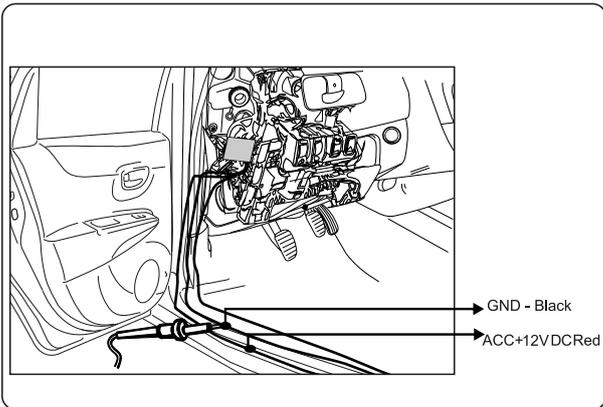
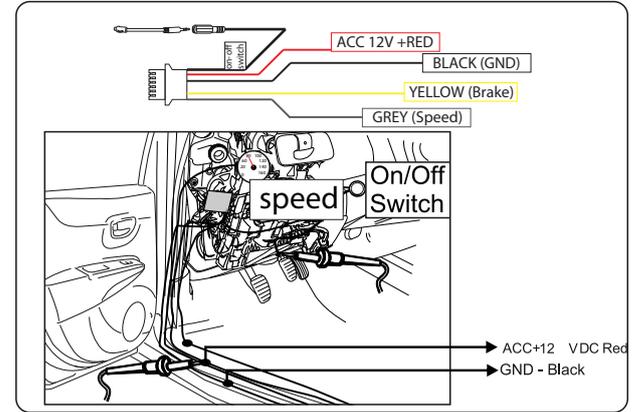
Fasten the control unit



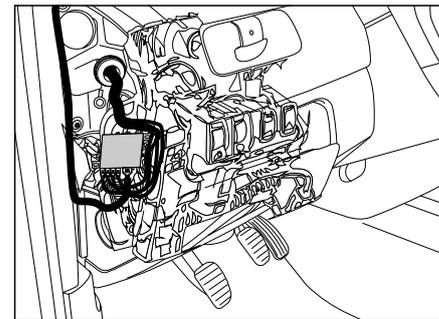
Option1 (FRONT)

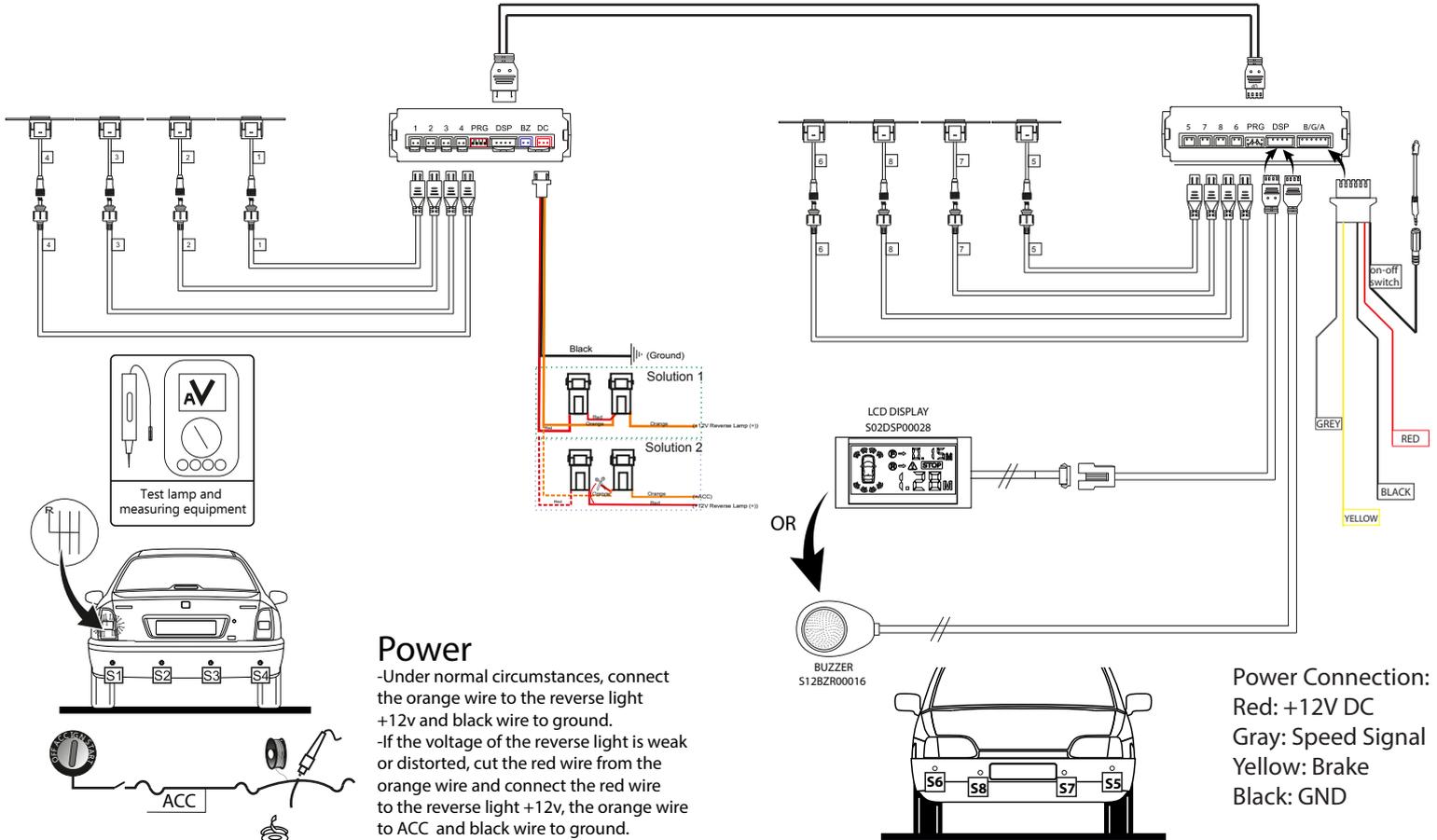


Option2 (FRONT)



Fasten the control unit





Power

-Under normal circumstances, connect the orange wire to the reverse light +12v and black wire to ground.
 -If the voltage of the reverse light is weak or distorted, cut the red wire from the orange wire and connect the red wire to the reverse light +12v, the orange wire to ACC and black wire to ground.

Power Connection:
 Red: +12V DC
 Gray: Speed Signal
 Yellow: Brake
 Black: GND