



# Parking Distance Controls

Trouble shooting guide

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## 1. Foreword.

This troubleshooting guide is dedicated to rear bumper applications, powered by a traditional (non LED) reverse light line only.

For the location of the parts described in this instruction, please refer to the relevant installation manual included into the kit and to the vehicle's technical sheet available on the Meta System's website (technical area).

All the procedures as described in this manual can be carried out without running engine.

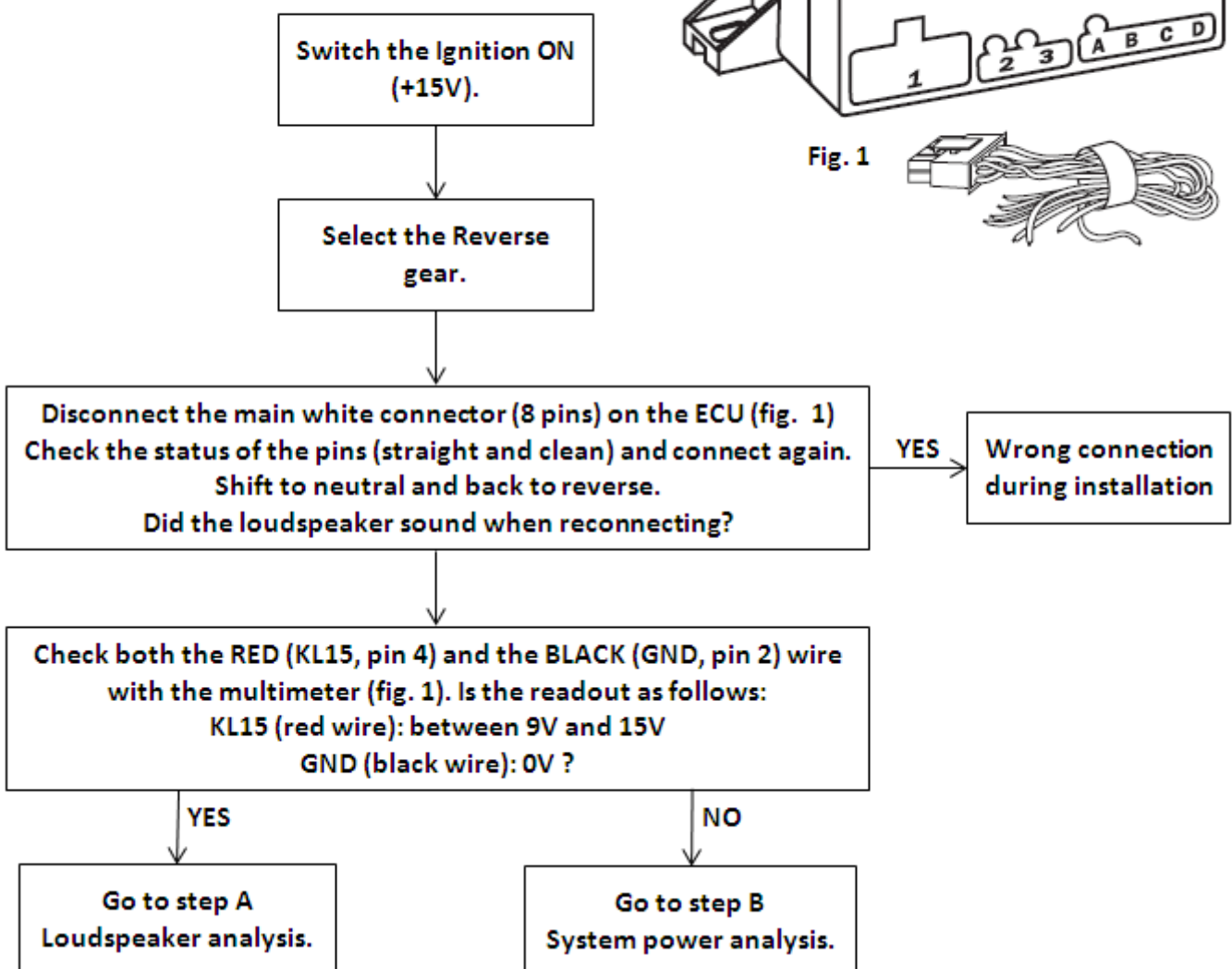
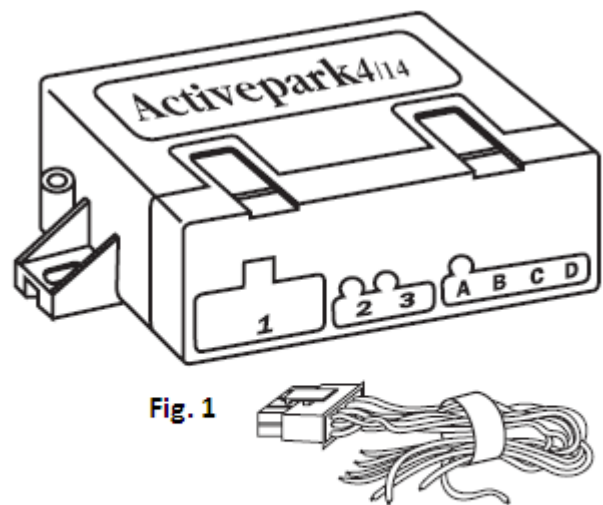
In case bumper removal is needed, always check during the removal whether the wire harness connectors are well installed on the sensors. An incorrect/incomplete installation of these connectors might result in water ingress and represents the most common cause of malfunctioning.

## 2. No activation of the system when the reverse gear is selected.

When the system is operating normally, a confirmation beep is generated by the ECU when the reverse gear is engaged. In case this beep is not heard and/or the system does not detect objects, refer to the following procedure to define the problem.

Notice: this activation signal is related to the ECU only and doesn't refer to the completion of a system check phase. Therefore, it is emitted even if all sensors are disconnected.

Check all connections: make sure to have respected the mounting sequence (from A to D) of the sensors onto the bumper and into the ECU (see fitting instructions at page 2.) and to have properly plugged all connectors.



## A. Loudspeaker Analysis

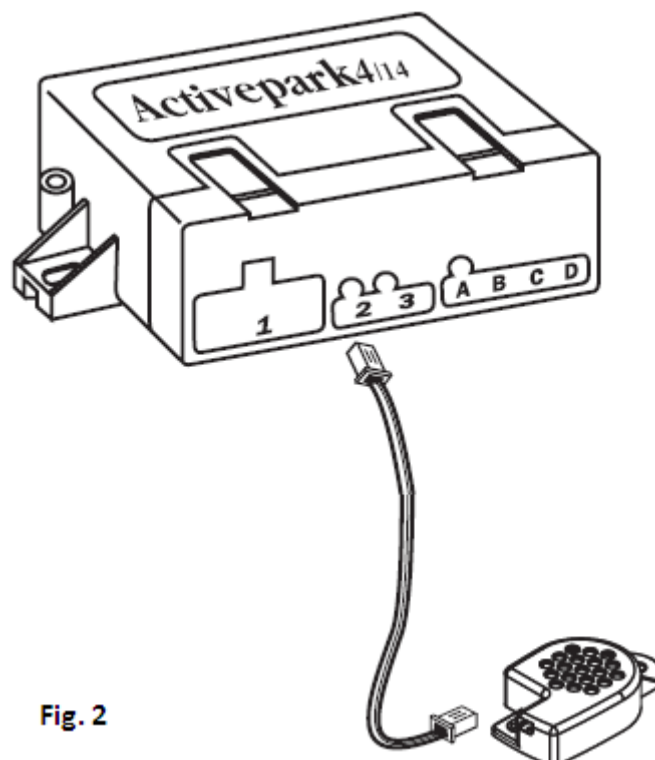
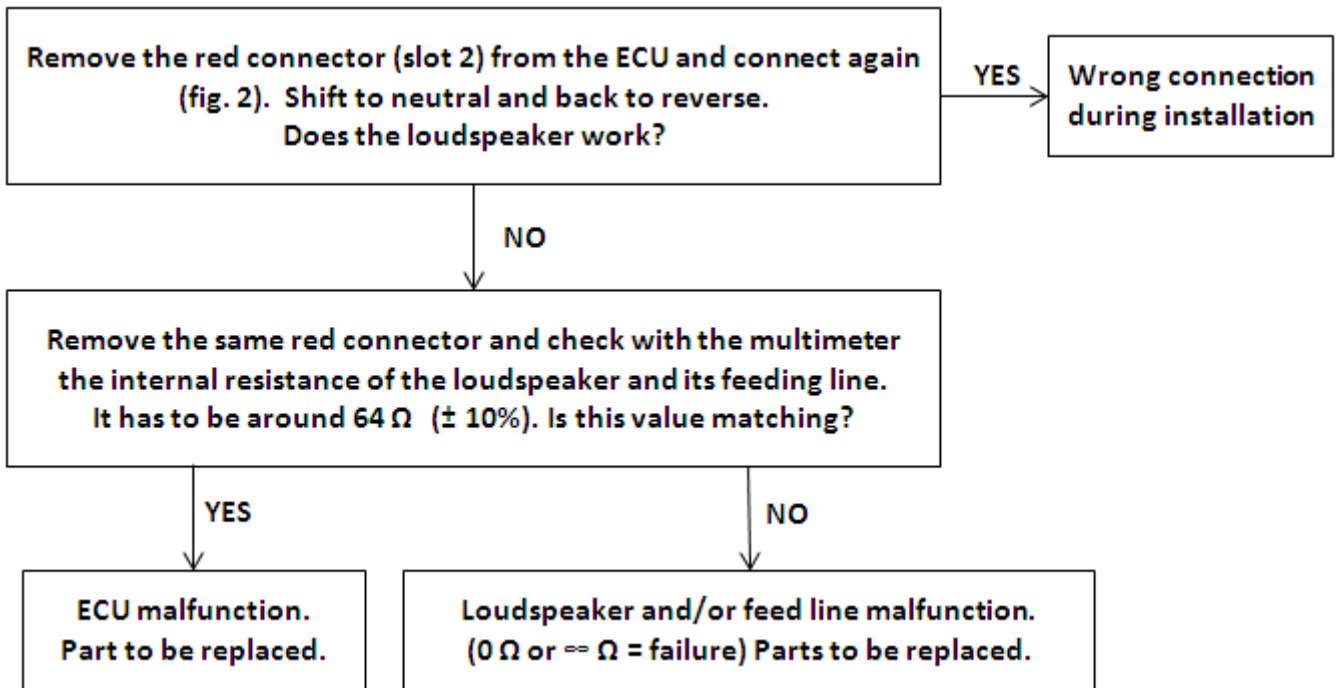
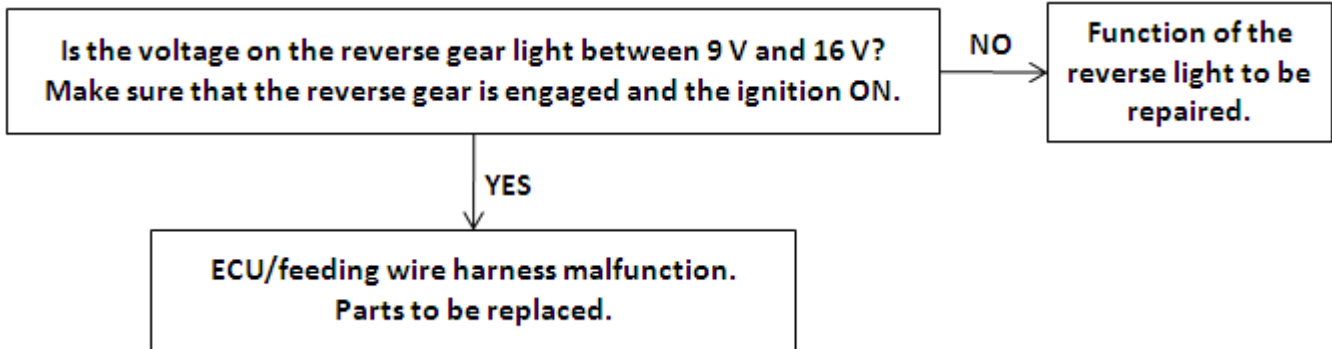


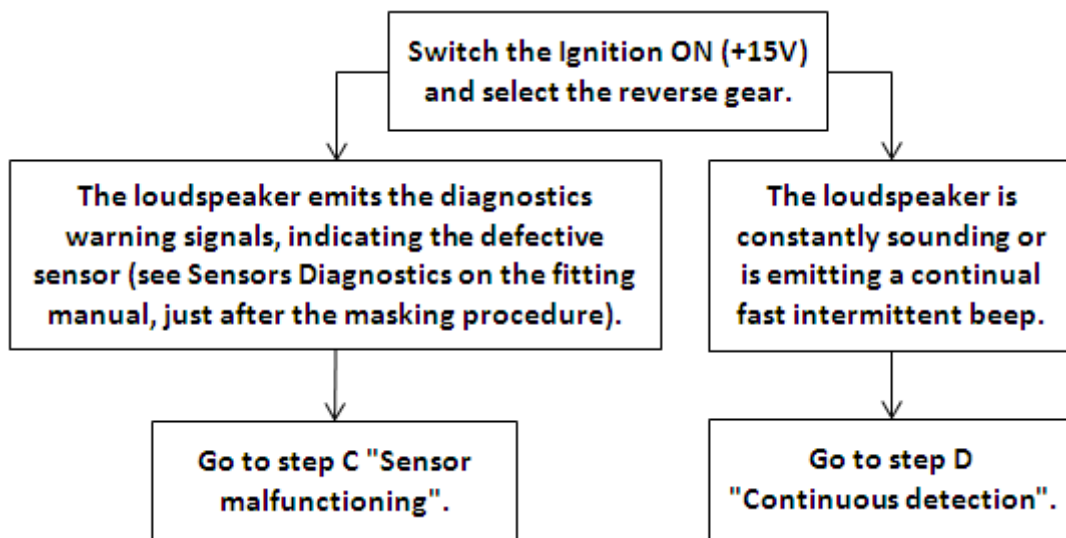
Fig. 2

## B. System Power Analysis

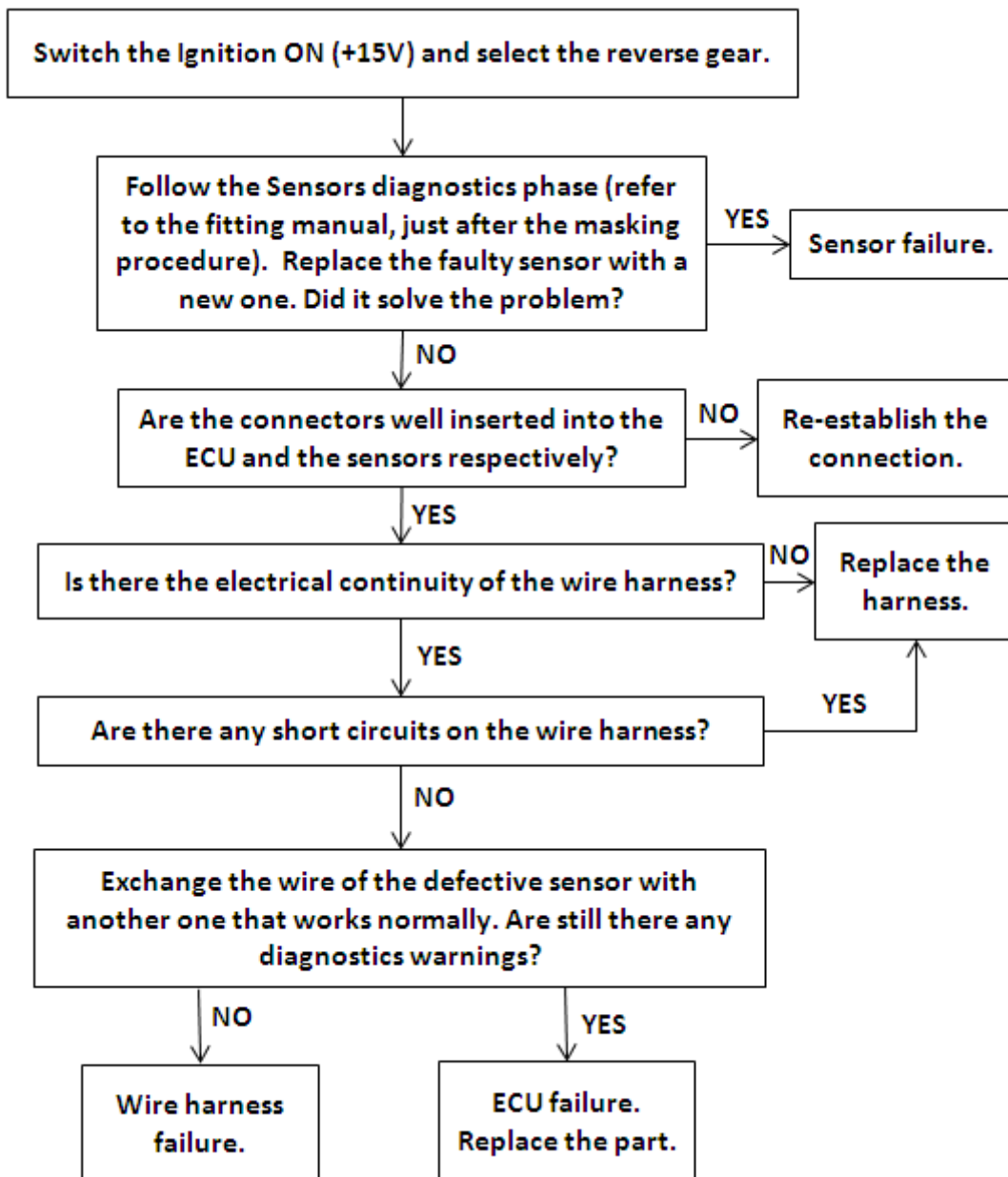


### 3. The loudspeaker does not stop sounding.

Meta System's Parking Distance Controls integrate a Sensors Diagnostics automatic function, allowing to detect any failures on each sensor and inform the driver accordingly. In case a malfunction occurs on one sensor, all others keep working and protecting the bumper.



## C. Sensor malfunctioning.



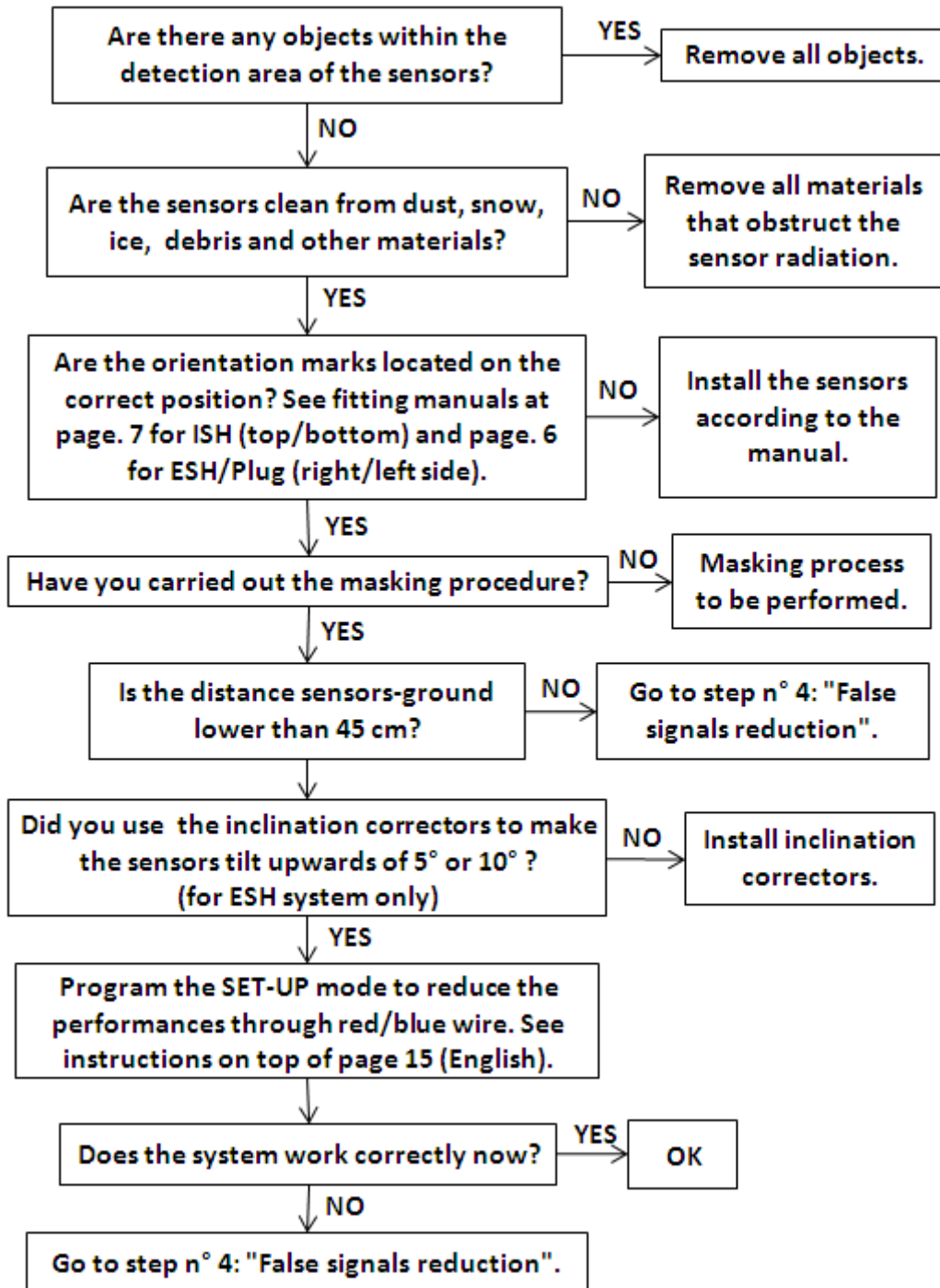
### One or more sensors do not operate correctly: unexpected sounding or no sound at all.

There might be a painting problem. In fact, the layer of paint must not exceed 90 microns in thickness, to let the ultrasound waves flow without obstructions. Moreover, the sensors must be painted separately from their holders, in order not to create any rigid connection between the parts, which would transmit vibrations from the vehicle to the sensors themselves. Use the cardboard template, part of the kit, to paint the sensors.

Lastly, make sure the assembly sensor-holder adheres to what specified into the fitting manual. See also the paragraphs concerning the continuous detection and the false signals reduction (page 9 and 10).

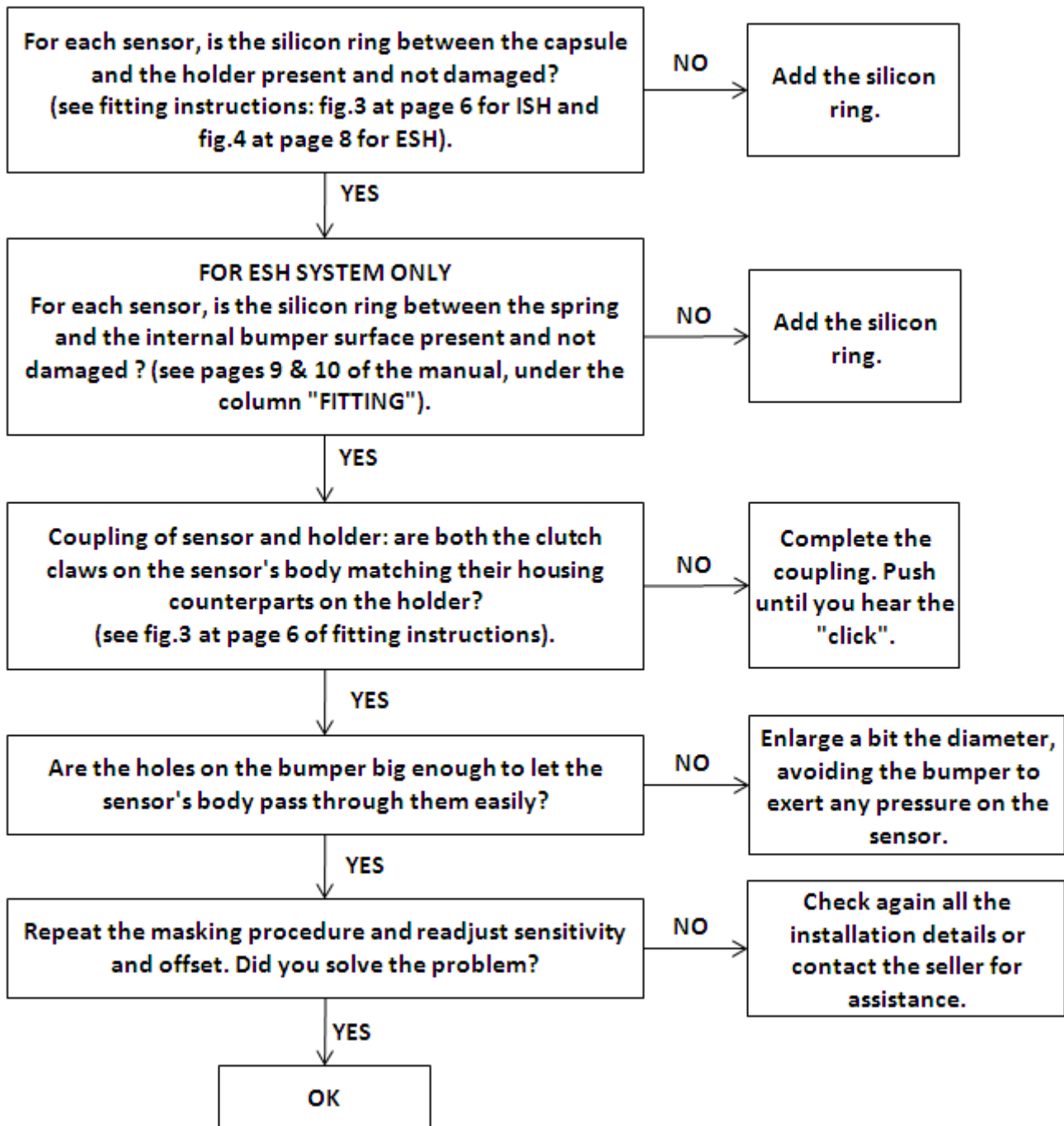


## D. Continuous detection.



## 4. False signals reduction.

This chapter gives you some additional hints that could help you out, in case you still find false signals or the performances of the system are not as expected.



## 5. Meta System's contact lines.

Website: [www.metasystem.it](http://www.metasystem.it)

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