



28mm Body Bumper Camera Fitting Notes



The bumper reversing camera is popular for customers who want a discreet camera. These notes are designed to help assist with this unique type of camera.

The camera is designed to sit in a 28mm hole with the body hidden from view. We supply the correct sized hole saw in the box, which will fit an electric drill in order to make this hole.

Find a good mounting location for the camera

This camera can be installed anywhere that has space behind for the camera to fit, plus allow access for securing and wiring. Due to the limited adjustment of this type of camera, we would usually recommend the camera is fitted lower down, most of the time this is fitted in to a bumper. Although we have seen it in van doors.

- Check to ensure that this location won't mean the camera points upwards towards the sky (as this would reduce the quality of image that you would obtain).
- Check that there is enough space behind that location for the camera and cable to fit (approx. 5cm/2 inches) and that you have access to tighten up the securing ring and access the cabling. Ensure "ventilation space" around the camera to avoid the camera overheating during operation.
- Some of our bumper cameras have a small in-line voltage dropper built in to the cabling (see image to the right). This part isn't waterproof and must be kept away from areas it will get wet. If this is an issue, please contact us as we may have a version that doesn't require this.



Check the camera works with your screen

We test all of our stock before we send it out to customers so the camera should work perfectly. If you are using a display from elsewhere, it is always worth giving a quick check of the camera before install to ensure that everything is compatible. It's also nice to have the camera and screen working together so that fine tune adjustments can be made easily with the camera rotation before tightening.

Drill the hole

After you have checked the location for the required access/space for behind for the camera it is time to drill the hole. This is the most nerve wracking part, but will go smoothly if the area is clear behind.

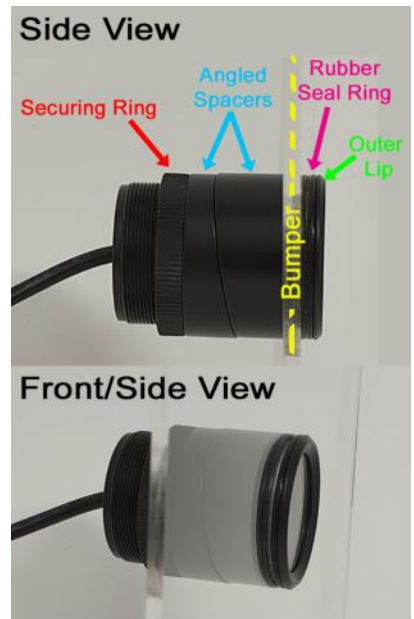
The camera comes with a 28mm hole saw that is designed to fit an electric drill. Once this is on the drill, double check the location is correct, then drill carefully until the hole saw has cut the complete 28mm diameter hole from

the bumper/surface.

Fixing the camera

You will notice that the camera has an outer lip at the front of the camera, followed by a rubber seal ring, then two angled spacer rings, and finally a main securing ring (see image to the right).

The angled spacers (below photo) are used when you need to adjust the angle of view down slightly e.g. in cases where the surface looks up slightly. If you require their use, place the thinner one on the outside of the bumper and put the other side on the inside of the



Camera mounted in perspex



bumper. If you don't require their use to adjust angle, you should still use them together on the inside of the bumper to act as a spacer to make tightening up easier.

Before tightening up the camera you will have to check that the camera is

rotated correctly and not upside down or on the side. If you look at the front of the camera you will notice it has numerous IR LED's that are clear in colour. You will also notice that there is one circular part that may be blue or green in colour. This is a light sensor to control the IR LED night vision. This is always mounted at the bottom of the camera. This means you should ensure this is sat at the "6 o'clock" position if looking from the front. You may make fine adjustments by viewing the image on the screen.

When you are confident that the camera is in the correct position it is time to fix it in place. Hand screw (no tools) the securing ring on to the threaded camera body until it locks the camera firmly in the rotation/location selected. Please avoid adjusting the cameras rotation when the camera is tightened up - this is because the front bezel of the camera may become unscrewed, which would allow moisture to enter the camera.



Maintenance of camera

Avoid jet washing the camera, IP68 cameras can't withstand the thousands of PSI pressure found on jet washes.

Give the camera a wipe with a moist microfibre cloth to keep clean, if you feel the camera has picked up oily grime from the road or finger prints whilst fitting, then use glass cleaning wipes, before using your microfibre cloth to wipe.