

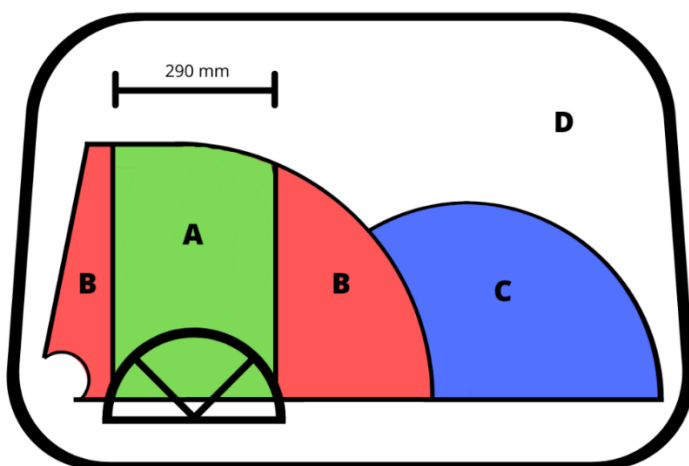
Preparing a damaged windscreen for repair

Before starting a repair, you need to examine the damaged area and get it ready for repair.

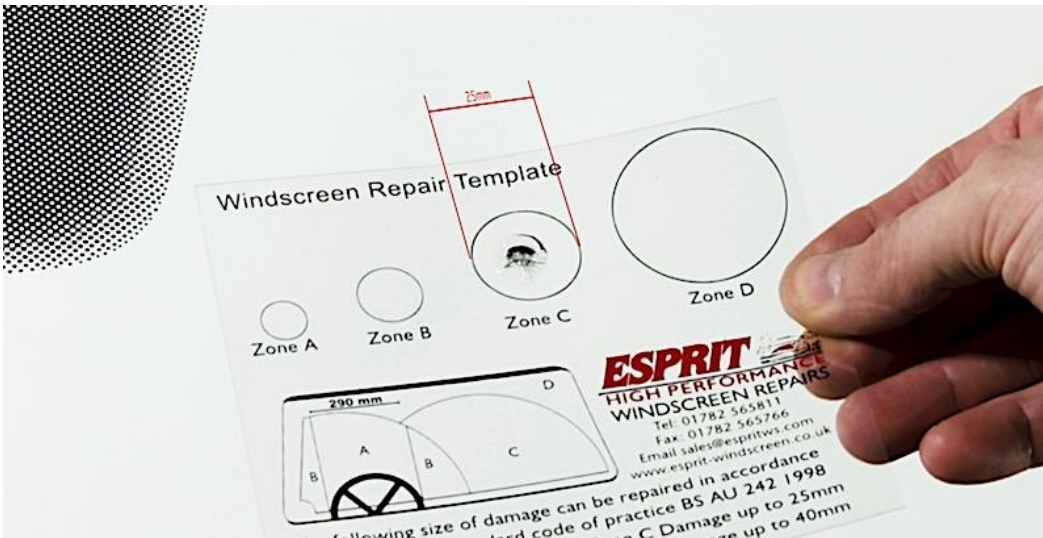
All Esprit windscreen repair kits include a mirror, which can be attached to the inside of a windscreen, and a green LED torch. These can be used to get a clear view of the break and to assess the full extent of the damage.



The Esprit system can be used on chips up to 40mm. But to comply with the British Standard, the size of the damage in certain areas is important. In the 'A-zone', which is immediately in front of the driver, only damage up to 10mm can be repaired. If the damage is in the 'C-zone' – in front of the passenger seat – then chips up to 25mm can be repaired safely.



Identify the correct zone on the windscreen where the break is located. Use the clear overlay provided within the kit to ensure that the size of the damage is within the limit for that zone.



Next, you need to identify the precise point where the stone has struck the glass. This is known as the impact crater. For a successful repair, the impact crater should be no larger than 5mm in diameter. Using the inspection tool, scratch into the impact crater. If you hear a grinding or scratchy sound, this means that the impact crater is blocked with glass debris, dirt or moisture.



These contaminants need to be removed to allow for effective ingress of the resin.

To clear the impact crater:

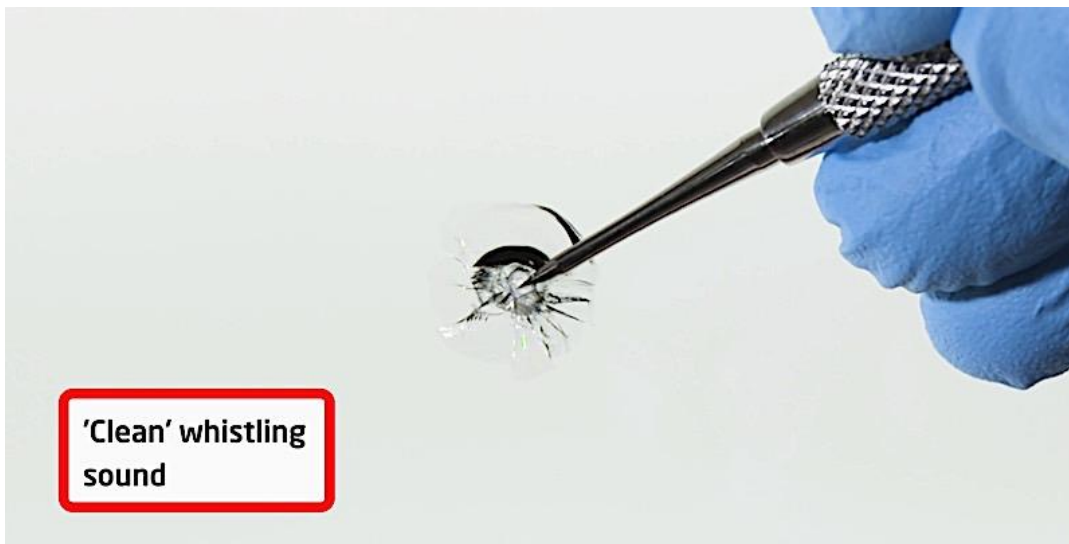


- Make sure you are wearing the protective safety glasses provided.
- Attached the small 1mm drill bit into the drill using the small button on the body of the drill to lock the drill and tighten the chuck.
- Hold the drill at a 45-degree angle and, using a gentle rotary action for a series of 3-second bursts, carefully clean out the impacted glass and dirt from the impact point.
- Ensure that the head of the drill bur does not travel deeper than 1mm beneath the glass and that the impact crater is not widened during this process.



- Do not apply excessive force or push the drill too deeply into the glass during the cleaning process, as this could damage the polyvinyl layer that lies between the inner and outer sheets of glass.

Re-check the impact crater using the inspection tool. If the impact crater is properly cleared of debris, you should hear a cleaner, whistling sound.



If you have followed these steps, then the chip area should be ready for a repair. In the next section, we will look out how to set up the bridge ready to carry out a repair.