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## Installation Guidelines

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### General

This manual provides guidelines for installing OUTLOCKS' locking units based on Knock Code Technology.

### Good vibration conduction

The Installation should allow good and clean acoustic conduction.

1. An optimal installation is achieved when the locking unit is installed directly on the knocking surface
2. If a bracket is needed, prefer one piece unit over multiple parts that need to be assembled.
3. Verify a stable Installation.
4. The locking unit & brackets should be firmly attached to the knocking surface.
5. If the bracket is to be welded, verify a long welding strip rather than small welding points.
6. If screws are used, prefer bolts and nuts.
7. If needed, create a direct acoustic conductor aside from the installation brackets.

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## Noisy or Vibrating environment

High vibration or noise levels may lead to high battery consumption, therefore in case of an extremely noisy or vibrating environments, an OUTLOCKS solution including external power supply or external battery pack should be taken into consideration.

In a suspected noisy environment, to determine the level of effective noise on the installation, you may use built in tools in the locking unit:

### Battery consumption followup

1. Download an audit from the locking unit every 4-5 weeks.
2. Check battery state after each download.  
Take into consideration the usage frequency of the locking unit according to the events in the audit trail during that month.
3. You may consult OUTLOCKS support for analyzing the received data.

## Avoid pressure in locking mechanism

1. In strike based locking units, verify that there is no pull-out pressure on the strike while the door is locked.
2. In Blocking devices, verify that there is no pressure on the blocking rod while the door is locked.

## Knock Point Sticker

Every Locking unit has a Knock point sticker included in the installation kit. This sticker may be used to mark the best knock point for unlocking.

To determine the best knock point, follow the guidelines below after the installation is complete:

1. Prefer a KnockKey that has regular code or fixed code privileges for testing the knock's reception  
Program the code in "Quick Code release", to verify that the correct code is always sent during the test.
2. The Knock point should be within 20 cm (8 inches) radius from the locking unit's receptor (Versatile lock or Control unit).
3. The knock point should not reveal the exact location of the locking unit.
4. While testing the reception, verify that the locking unit is at minimum sensitivity by banging on the door few times
5. A good knock point is where the locking unit responded to the knock code and unlocked for 5 times.  
Make sure you wait until the locking unit is relocked before testing again.
6. Stick the sticker on the Knock Point.
7. At the end of the process, delete the code from KnockKey's Quick Code