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boot repair for arch



To repair the bootloader for Arch Linux, you typically use a live Arch ISO to `chroot` into your installed system and reinstall/reconfigure the bootloader (GRUB or systemd-boot). There is also a community-maintained `boot-repair` package available in the AUR (Arch User Repository) which provides a graphical tool for MBR and boot record recovery, but the standard method is command-line based. [↗](#)

Standard Arch Linux Boot Repair Guide (GRUB/UEFI) [↗](#)

The most common method involves booting from the Arch Linux installation media, mounting your partitions, and using `arch-chroot` to fix the bootloader configuration. [↗](#)

Prerequisites

- An **Arch Linux live USB** drive or installation medium. You can download the latest ISO from the [Arch Linux website](#).
- A working internet connection via Ethernet, or a way to connect to Wi-Fi from the live environment. [↗](#)

Steps

1. **Boot from the Arch Live USB** and access the command prompt.
2. **Identify your partitions** using `lsblk` or `fdisk -l`. You need to locate your root partition (e.g., `/dev/sda2` or `/dev/nvme0n1p2`) and your EFI system partition (e.g., `/dev/sda1` or `/dev/nvme0n1p1`).

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(replace `sdxy` with your root partition identifier)

4. **Mount your EFI system partition** to the correct location. Check your `/mnt/etc/fstab` file to confirm where it was originally mounted (usually `/boot` or `/boot/efi`):

bash

```
mount /dev/sdXz /mnt/boot # If it mounts to /boot
# OR
mount /dev/sdXz /mnt/boot/efi # If it mounts to /boot/efi
```

Use code with caution.



(Replace `sdXz` with your EFI partition identifier)

5. **Change root into your installed system** using `arch-chroot` :

bash

```
arch-chroot /mnt
```

Use code with caution.



You are now operating as if you natively booted into your broken system.

6. **Reinstall your bootloader.** The specific commands depend on whether you use GRUB or systemd-boot.

1. **For GRUB (UEFI):**

bash



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bash

```
bootctl install # Or bootctl update if already installed
```

Use code with caution.



You may also need to manually verify or recreate configuration files in `/boot/loader/entries/`.

7. **Exit the chroot environment** and unmount the partitions:

bash

```
exit  
umount -R /mnt
```

Use code with caution.



8. **Reboot** your computer without the live USB to test the repair. [↗](#)

This process should restore access to your operating system. [↗](#)

I can provide more specific instructions if you let me know **which bootloader you use (GRUB or systemd-boot) and if you have a dual-boot setup with another OS like Windows.**





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