

# Park Nozzle

**Feature Name:** Park Nozzle

**Feature Name in Annotation:** NOZZLE\_PARK\_FEATURE

## Source of Information

Releaselog, pull requests, commits, G-code document, ifdefs with feature annotation name

## Strategy Used:

Feature is identified from the latest release log first. The release log also provides the pull request and commits linked to the feature (see the links and tables below), Ifdefs are also used for speeding up feature location.

**Feature Release Version:** 1.1.0 – RC7

**Time took to Identify and Locate the feature:** 0.5 hour

**Time took to Understand the Implementation:** 0.8 hour

## Feature Description:

When enabled allows the user to define a special XYZ position, inside the machine's topology, to park the nozzle when idle or when receiving the G27 command.

Video Demo: <https://www.youtube.com/watch?v=y336l3zDKNE>

The "P" parameter controls what is the action applied to the Z axis:

P0: (Default) If current Z-pos is lower than Z-park then the nozzle will be raised to reach Z-park height.

P1: No matter the current Z-pos, the nozzle will be raised/lowered to reach Z-park height.

P2: The nozzle height will be raised by Z-park amount but never going over the machine's limit of Z\_MAX\_POS.

## Feature Information and Statistics:

PR No.	Merged Time	PR	Commits	Files	Line Added	Line deleted
#4299	17 Jul 2016	Implements park nozzle feature	2	25	683	85

## Ratios of sources (%)

RL	PR	CM	Ifdef	DK	CC	SC	GD
50	20	10	10	0	0	0	10

**RL:** Release Log; **PR:** Pull Request; **CM:** Commit, **Ifdef:** Ifdef Expression; **DK:** Domain

Knowledge; **CC**: Code Comment; **SC**: Source Code; **GD**: G-Code Documentation.

**Pull Request Links:**

<https://github.com/MarlinFirmware/Marlin/pull/4299/files>

**Feature Characteristics:**

Feature Name	LoFC	SD	TD	Completely Wrapped by ifdef
Park Nozzle	43	4	0	No

**Feature's relevant historical data**

Request(issue) proposed

Time: 6 Jul 2016, by: thopiekar

Issue: Feedback on BQ Hephestos2 - <https://github.com/MarlinFirmware/Marlin/issues/4221>

**Related Pull Request:**

#4325: Latest RCBugFix Homing weirdness -

<https://github.com/MarlinFirmware/Marlin/issues/4325>