BETA TEST REPORT

BetaSuite Demo · Acme Spring Field Test

TESTER	Tester01
MACHINE MODEL	RoboMower R2 Pro
REPORT WEEK	15/06/2026 – 20/06/2026 (3 entries)
GENERATED	20/06/2026

At a Glance

SESSIONS	RUNTIME	MARKERS	FEEDBACK
1	1h 38m	3	3

Sessions with findings: 1 of 1

Entries by category: Suggestion 1 · Hardware 2

Tester's reflections

Overall rating: 4 / 5

Most satisfied with

Mower cut quality was excellent.

Least satisfied with

Battery run time on slope poor

AI period summary

Theme & tone

- The system demonstrated reliable perimeter completion but showed hardware-related performance gaps.

Positives

- Perimeter learn completed within target time.
- Docking succeeded on first attempt.

Key issues

- Bumper-stall loop triggered repeatedly at narrow corners.
- Battery run time deteriorated on slopes exceeding 20°.

Recommendations

- Address repeated bumper-stall triggers at narrow terrain.
- Investigate battery degradation patterns on steep inclines.

Generated by BetaSuite Assist.

Sessions

First yard map & dock cycle

2026-06-19 · 1h 38m

3 / 5 | Got stuck | Partly cloudy · 19°C

"Bumper-stall loop at the rose-bed corner — needed manual intervention before the path planner gave up."

• Perimeter learn finished in 11 min — within target.
• Stalled at the rose-bed corner — bumper triggered twice in 8 s before reversing.
• Docked first try on return — charge contacts aligned, no nudging needed.
• Repeated bumper stalls at narrow corners — Expected: After the mower enters the rose-bed corner (~40 cm gap between the boundary wire and a raised garden edge), the path planner should widen the arc rather than retry the same line. — Actual: Three to four bumper-and-reverse cycles before the planner gives up and re-routes.
• Battery drops 12 % below target on slopes ≥ 20° — Across two passes on the back-yard slope (~22°), the pack discharged from 78 % to 41 % — about 12 % more than the spec sheet predicts for the same distance on flat ground.
• Suggestion: Add an estimated finish-time chip to the companion app — Surfacing a live "ETA to finish" on the companion-app home screen would make it easier for owners to plan around the mowing window — particularly useful when the mower has reduced cutting speed for wet grass.

Markers (3)

21:25:01 (+12m)
Perimeter learn finished in 11 min — within target.

22:06:01 (+53m)
Stalled at the rose-bed corner — bumper triggered twice in 8 s before reversing.

22:41:01 (+1h 28m)
Docked first try on return — charge contacts aligned, no nudging needed.

Detailed Entries

1. Add an estimated finish-time chip to the companion app

Suggestion · 2026-06-19

Description
Surfacing a live "ETA to finish" on the companion-app home screen would make it easier for owners to plan around the mowing window — particularly useful when the mower has reduced cutting speed for wet grass.

Device: RoboMower R2 Pro · OS: firmware 3.2.1 · App: demo · #companion-app · #ux

2. Battery drops 12 % below target on slopes ≥ 20°

Hardware · 2026-06-19

Description
Across two passes on the back-yard slope (~22°), the pack discharged from 78 % to 41 % — about 12 % more than the spec sheet predicts for the same distance on flat ground. Wheel current spiked to 4.1 A on the up-slope segments. No thermal warnings, but the unit returned to the dock sooner than expected.

Device: RoboMower R2 Pro · OS: firmware 3.2.1 · App: demo · #battery · #slope · #wheel-current · #firmware-v3.2

3. Repeated bumper stalls at narrow corners

Hardware · 2026-06-19

Description
When the mower enters the rose-bed corner (~40 cm gap between the boundary wire and a raised garden edge), the front bumper triggers, the unit reverses ~10 cm, then attempts the same line again and re-triggers. Cycle repeats 3–4 times before the path-planning falls back to a wider arc.

Steps to reproduce
1. Map a yard with a corner narrower than 50 cm between the boundary wire and a fixed obstacle.
2. Start an auto-mow.
3. Wait for the mower to reach that corner.
4. Observe the bumper-stall loop on the live camera feed.

Expected
After the first bumper trigger, the path planner should widen the arc rather than retry the same line.

Actual
Three to four bumper-and-reverse cycles before the planner gives up and re-routes.

Device: RoboMower R2 Pro · OS: firmware 3.2.1 · App: demo · #obstacle · #path-planning · #firmware-v3.2

Appendix — Report Images

Condition

Front

Side

Under

Additional