

Setting comparison record

Name _____ Date _____ Run # _____

Change one value at a time. Write your prediction before you change it, then write what you actually saw.

Baseline: Book_C01_Robot v1.6.3 · RoboCo API 0.3.1

Appendix I · Table C01-I01-A

Item	Record
Robot file	☐ Book-CORE-01-CONTROLS (Robot 1) ☐ Book-CORE-01-SCRIPT_PART (Robot 2)
Script/Library version	☐ v1.6.3 Other: _____
Controls Mapping checked	☐ Checked Note: _____
Start position & heading	
Screen at start	☐ Folded ☐ Open
Parameter tested	☐ RPM ☐ ACCEL ☐ BRAKE F ☐ BRAKE T ☐ Added item STAGGER/RETURN _____
Key used	2 / 3 / 4 / 0
Current level	LV ____ / 10
Baseline value	
Value before	
Value after	
Prediction	
What you observed	
Failure or odd behavior	
One thing to change next	
Baseline back after Reset All (0, or fold with 1)	☐ Yes ☐ No

Motor baseline record

Appendix I · Table C01-I01-B

Run	RPM	ACCEL	BRAKE F	BRAKE T	TORQUE (fixed)	Note
Robot file values						SETUP Motor (robot file) · Motor (fixed)
Values the script applied						SETUP Motor (script) · only when different

Copy the numbers from the Console SETUP lines of that run. TORQUE is a fixed value the script never changes.

Mission check form

Name _____ Date _____ Run # _____

For each step, write the time you set next to the motion you actually saw. If a step fails, stop at that row and pick one cause.

Baseline: Book_C01_Robot v1.6.3 · RoboCo API 0.3.1

Appendix I · Table C01-I01-C

Step	Action/State	Set time (s)	Observed	Done/Failed	Note
1					
2					
3					
4					
5					
6					
GUIDE	Screen guide				
RETURN	Return				

Use rows 4–6 if the route has more than three steps.

Guide message	
Gap between start and return positions	

Whole-mission check

Check	Result
1. Recorded the start position?	☐ Yes ☐ No
2. Did the route run without breaks?	☐ Yes ☐ No
3. Did the screen open at the guide point?	☐ Yes ☐ No
4. Was the guide message visible?	☐ Yes ☐ No
5. Did the screen fold after guiding?	☐ Yes ☐ No
6. Did RETURN run?	☐ Yes ☐ No
7. Recorded the gap between start and return?	☐ Yes ☐ No
8. Picked the single biggest cause of failure?	☐ Yes ☐ No
9. Changed only one condition?	☐ Yes ☐ No
10. Recorded the re-run result?	☐ Yes ☐ No

Challenge mission record

Name _____ Date _____ Run # _____

For challenges 1–3 on the web companion page. No solution code is provided; the concepts are in the chapters indicated.

Baseline: Book_C01_Robot v1.6.3 · RoboCo API 0.3.1

Web only · not in the book's appendix

Challenge 1 · Guide to a different place

CH22 · CH23

Step	Action	Time (s)	Observed
1			
2			
3			
4			
5			
6			

Rule: at least four steps, at least one pause · Actions: forward · backward · turn_left · turn_right · rotate_left · rotate_right · pause

Challenge 2 · Back to the same spot three times

CH24 · CH25

The one value changed	Before:	After:

Run	Before · return-position gap	After · return-position gap
1		
2		
3		
Average		

Also look at how much the three gaps vary.

Challenge 3 · A guide message readable at a glance

CH21

Text Screen draft — 9 cells × 4 lines. One character per cell.

Why this wording

☐ Checked with a real screen capture