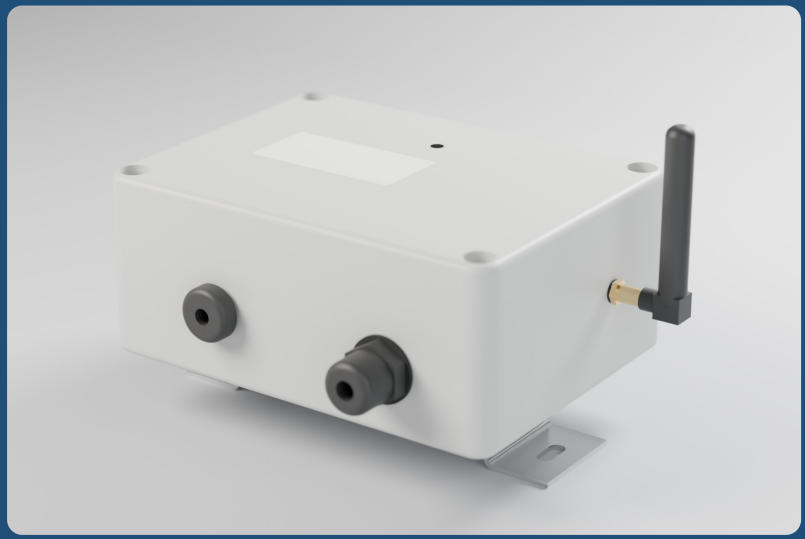
ESB-1 through Engineering OS

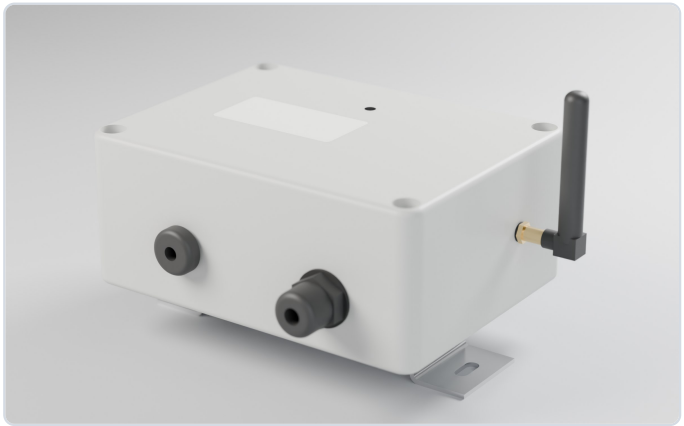
What the platform, as it is on main today, does with a complete CAD package of an IP65 sensor box



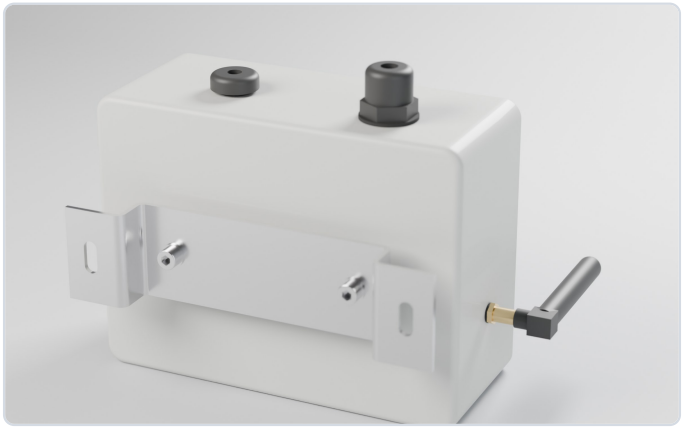
Engineering OS `c7d0cce76d73` (main, 0 modified files), Python 3.12.15
In-memory adapters, no network, no database
Demo phase 3 · 2026-11-08

ESB-1 is a fictional device made for this demonstration; it contains no customer data. Every approval shown is a DEMO decision recorded by a script, not an engineering approval by a real person. Every number on these slides is read from the run outputs in eos/out/.

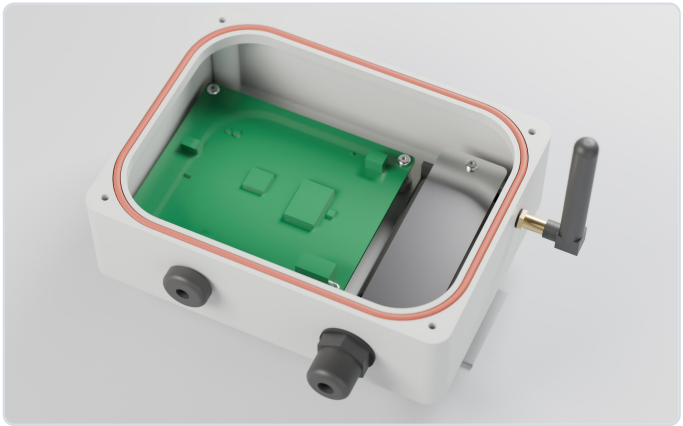
The product: ESB-1 Environmental Sensor Box



Front



Back, with the wall bracket



Lid open: PCB, battery, sensor board

ESB-1 Environmental Sensor Box

- Sealed IP65 box, about 160 x 120 x 70 mm; die-cast aluminium base and lid, silicone cord gasket
- Main PCB on 4 standoffs, T/RH/pressure sensor board behind a membrane vent, 2 x 18650 battery pack
- M16 cable gland, SMA bulkhead with stub antenna, light pipe, stainless wall bracket

29
parts-list items

47
pieces (bodies)

25
electrical lines, 2 boards

Model, drawings, BOM, renders and the assembly instruction are generated by the demo's own make.sh (FreeCAD, Blender, its own scripts); Engineering OS only reads them.

Inputs: the package as EOS received it

Six files from the demo package, identified by SHA-256

Artifact	Role	File	Bytes	SHA-256 (prefix)
cad-1	cad	ESB-10000_ESB-1_assembly.step	916,749	06d20a7b72068543
dwg-1	drawing	ESB-10000_assembly.pdf	257,672	0650d27c073f9bea
dwg-2	drawing	ESB-10001_housing_base.pdf	55,394	1a11add8ed2c3253
dwg-3	drawing	ESB-10002_lid.pdf	38,583	7aa013e6e7f953c5
dwg-4	drawing	ESB-10010_bracket.pdf	37,469	0efec95039cea538
bom-1	bom	ESB-10000_BOM.xlsx	10,678	bb6d1e3e20c5742d

Two derived copies made by the demo script

Artifact	File	Bytes	SHA-256 (prefix)
bom-2	ESB-10000_BOM-derived.xlsx	9,744	719efb23c6942db1
cad-2	ESB-10000_ESB-1_assembly-whatif-pn-ids.step	915,508	585a03396432e598

Project artifact manifest (L1)

OK 8 entries, digest 168cf47388485391

Manifest digest 168cf473884853919bd2010a

> **Why derived copies?** The source BOM workbook is refused at ingestion (slide 5). **bom-2** is the same table without the merged title rows. **cad-2** is the same STEP file with each PRODUCT id set to the body's part number, which shows what EOS does once ids equal P/N. Both are labelled as derived, and the source files are kept unchanged.

The worker run labels every attempt LOCAL_REHEARSAL: it is not a run under AI-Orchestrator.

Two paths through the code on main

Pilot worker (engineering_os.pilot.cli), six attempts

Files in, work order on stdin; the worker answers with a status, evidence files and acceptance checks. Each attempt feeds back what the previous one asked for.

Run	Input	Status	s
W1	worker source bom	FAILED	6.6
W2	worker derived bom no profile	CLARIFICATION_REQUIRED	7.0
W3	worker with profile	APPROVAL_REQUIRED	7.2
W4	worker with DEMO decision	COMPLETED	7.3
W5	whatif pn ids with profile	APPROVAL_REQUIRED	7.0
W6	whatif with DEMO decision	COMPLETED	7.1

W1 fails on the source BOM; W2 asks for a column profile; W3 and W5 stop at the human gate; W4 and W6 complete after a DEMO decision.

Library path (public APIs, stage by stage)

Stage	Step	Result
L1	project manifest	OK
L2	ingest dwg-1	OK
L2	ingest dwg-2	OK
L2	ingest dwg-3	OK
L2	ingest dwg-4	OK
L2	ingest bom-1	REFUSED
L2	ingest bom-2	OK
L3	step enumeration cad-1	OK
L3	step enumeration cad-2	OK
L4	reconstruct source	OK
L5	structure projection source	OK
L6	drawing association source	OK
L7	bom import bom-1 source	REFUSED
L7	bom import bom-2 derived	OK
L8	board bom read bom-1	REFUSED
L8	board bom read bom-2	REFUSED
L9	structure gate source	OK
L10	bom draft with board source	REFUSED
L10	bom draft source	OK
L4	reconstruct whatif	OK
L5	structure projection whatif	OK
L6	drawing association whatif	OK
L9	structure gate whatif	OK
L10	bom draft with board whatif	REFUSED
L10	bom draft whatif	OK

Ingestion: what was read, and what was refused

Read

Input	Result	Detail
dwg-1	OK	2 fragments
dwg-2	OK	1 fragments
dwg-3	OK	1 fragments
dwg-4	OK	1 fragments
bom-2	OK	518 fragments
cad-1	OK	AP214: 48 product nodes, 47 occurrences, single root True

Column profile the worker proposed (W2), answered in W3


```
{"description_column": "D", "header_row": 1, "identifier_column": "C", "position_column": "B",
"quantity_column": "F", "sheet": "Mechanical BOM", "unit_column": "G"}
```


Refused, fail closed (exact messages)

Source BOM, document ingestion (L2) REFUSED

```
[SV-X-16] XLSX sheet 'xl/worksheets/sheet1.xml' cell 'A1' holds text that may not fit its own
cell (revision-15 (merged-area): R 106.91 units, W 7.00 units (R > W)); spill is never
admitted, so ingestion failed closed
```

Source BOM, pilot worker (W1) FAILED

```
unsupported_format: input bom-1 could not be read as its declared format
```

Electrical board BOM (L8, derived copy) REFUSED

```
column_contradicts_header: the quantity column and the sheet's headers disagree
```

The title is merged across the table; the fit check measures it against column A alone, or refuses any merged anchor. The board reader needs the header names "Quantity" and "Designator"; the demo sheet says "Qty" and "Ref. des.". Details on slide 12.

Structure tree, with confidence on every node

```
containment_relations: derived_from
root:
    - ent-65404543 [inferred] ESB-10001 Housing base (part)
    - ent-98c9c4ee [inferred] ESB-10003 Lid gasket, cord d3.0 (part)
    - ent-35b1d52d [inferred] ESB-10002 Lid (part)
    - ent-c6ff44a2 [inferred] ESB-10004 Light pipe d4.9 (part)
    - ent-375ac39e [inferred] ESB-10020 Rating label 60 x 30 (part)
    - ent-acc9ddff [inferred] ISO 7089-4-200HV-A4 Plain washer 4 #1 (part)
    - ent-e982e912 [inferred] ISO 4762 M4x16-A4-70 Socket head cap screw M4 x 16 #1 (part)
    - ent-5ba583b1 [inferred] ISO 7089-4-200HV-A4 Plain washer 4 #2 (part)
    - ent-5a53fd97 [inferred] ISO 4762 M4x16-A4-70 Socket head cap screw M4 x 16 #2 (part)
    - ent-91d3aa8b [inferred] ISO 7089-4-200HV-A4 Plain washer 4 #3 (part)
    - ent-9ca3bf47 [inferred] ISO 4762 M4x16-A4-70 Socket head cap screw M4 x 16 #3 (part)
    - ent-2ca7e079 [inferred] ISO 7089-4-200HV-A4 Plain washer 4 #4 (part)
    - ent-cdad180d [inferred] ISO 4762 M4x16-A4-70 Socket head cap screw M4 x 16 #4 (part)
    - ent-0f091756 [inferred] ESB-20001 Standoff M3 x 10 hex 5.5, male-female #1 (part)
    - ent-3e511bd6 [inferred] ESB-20001 Standoff M3 x 10 hex 5.5, male-female #2 (part)
    - ent-f61962da [inferred] ESB-20001 Standoff M3 x 10 hex 5.5, male-female #3 (part)
    - ent-2665e264 [inferred] ESB-20001 Standoff M3 x 10 hex 5.5, male-female #4 (part)
    - ent-cdc91f5b [inferred] ESB-30001 Main PCB assembly (part)
    - ent-69f331a9 [inferred] ISO 7380-1 M3x6-A2-70 Button head screw M3 x 6 #1 (part)
    - ent-5071b84f [inferred] ISO 7380-1 M3x6-A2-70 Button head screw M3 x 6 #2 (part)
    - ent-ff958d92 [inferred] ISO 7380-1 M3x6-A2-70 Button head screw M3 x 6 #3 (part)
    - ent-414fbe56 [inferred] ISO 7380-1 M3x6-A2-70 Button head screw M3 x 6 #4 (part)
    - ent-d63b8bc5 [inferred] ESB-20002 Standoff M3 x 6 hex 5.5, male-female #1 (part)
    - ent-e98d1539 [inferred] ESB-20002 Standoff M3 x 6 hex 5.5, male-female #2 (part)
    ... 23 more parts
unresolved:
  - doc:0650d27c073f [inferred] aiorch-input:dwg-1 (document)
  - doc:1a11add8ed2c [inferred] aiorch-input:dwg-2 (document)
  - doc:7aa013e6e7f9 [inferred] aiorch-input:dwg-3 (document)
  - doc:0efec95039ce [inferred] aiorch-input:dwg-4 (document)
```

Projection (L5, W6 evidence)

52
nodes, all "inferred"

4
unresolved (the drawings)

Reason	Nodes
no_containment_link	5
unverified_entity	52
unverified_containment_link	47

Envelope state	Nodes
candidate	52

> No node is "confirmed": a STEP file proves what the model says, not what is true. Confirmation needs a human decision.
> Repeated parts appear once per body (#1, #2 ...) because the FreeCAD export writes one PRODUCT per body.

BOM rows and drawings matched to the model

BOM rows to model entities

Source STEP: PRODUCT ids are CAD labels ("ESB-10001 Housing base").

Status	Quantity	Rows
unmatched	not_comparable	30

AC-2 FAIL: 30 BOM row(s) not resolved to exactly one entity

What-if STEP: PRODUCT id = part number.

Status	Quantity	Rows
matched	not_comparable	1
matched	agrees	21
ambiguous	not_comparable	8

AC-2 FAIL: 8 BOM row(s) not resolved to exactly one entity. The 8 are the parts used more than once: each body is its own PRODUCT, so one row maps to several entities and EOS will not pick one.

Drawings to parts (exact title-block identifier only)

Source STEP

Drawing	Identifier	State	Entity
dwg-2	ESB-10001	unresolved	
dwg-3	ESB-10002	unresolved	
dwg-4	ESB-10010	unresolved	
dwg-1	(not read)	title_block_malformed	

What-if STEP

Drawing	Identifier	State	Entity
dwg-2	ESB-10001	matched_by_identifier	cad:585a03396432:ESB-10001#211
dwg-3	ESB-10002	matched_by_identifier	cad:585a03396432:ESB-10002#3391
dwg-4	ESB-10010	matched_by_identifier	cad:585a03396432:ESB-10010#18721
dwg-1	(not read)	title_block_malformed	

> The assembly drawing has a parts list whose "P/N" column header is read as a title-block field, so it is refused as malformed rather than guessed.

EOS BOM draft compared with the demo's own BOM

BOM table draft (L10), first 12 of 47 lines

Banner: "As modelled, including every alternative in the model. Not a product quantity." · table state draft

#	Description (from the CAD label)	Qty	P/N state	Notes
1	ESB-10001 Housing base	1	candidate	PN-01, ID-06
2	ESB-10002 Lid	1	candidate	PN-01, ID-06
3	ESB-10003 Lid gasket, cord d3.0	1	candidate	PN-01, ID-06
4	ESB-10004 Light pipe d4.9	1	candidate	PN-01, ID-06
5	ESB-10005 Battery bracket plate	1	candidate	PN-01, ID-06
6	ESB-10010 Wall bracket	1	candidate	PN-01, ID-06
7	ESB-10020 Rating label 60 x 30	1	candidate	PN-01, ID-06
8	ESB-20001 Standoff M3 x 10 hex 5.5, male-female #1	1	candidate	PN-01, ID-06
9	ESB-20001 Standoff M3 x 10 hex 5.5, male-female #2	1	candidate	PN-01, ID-06
10	ESB-20001 Standoff M3 x 10 hex 5.5, male-female #3	1	candidate	PN-01, ID-06
11	ESB-20001 Standoff M3 x 10 hex 5.5, male-female #4	1	candidate	PN-01, ID-06
12	ESB-20002 Standoff M3 x 6 hex 5.5, male-female #1	1	candidate	PN-01, ID-06

PN-01: "The only part-number candidate is a CAD label, which is not a part number." ID-06: "No shape signature was evaluated, so this line was grouped with no other." Exported to eos/out/library/ESB-10000_EOS-BOM-draft-source.xlsx.

Differences (demo script comparison)

Measure	EOS	Demo BOM
Imported BOM rows (L7), quantities equal	30	30
STEP products per P/N vs BOM quantity		0 differences
Draft lines vs parts-list items	47	29
Pieces	47	47
Quantity differences after label mapping		0
Electrical sections	0	2

Items split over several draft lines

P/N	Demo qty	EOS lines
ESB-20001	4	4
ESB-20002	2	2
ISO 4762 M4x16-A4-70	4	4
ISO 4762 M5x10-A4-70	2	2
ISO 7089-4-200HV-A4	4	4
ISO 7089-5-200HV-A4	2	2
ISO 7380-1 M3x6-A2-70	6	6
ISO 7380-1 M3x8-A2-70	2	2

The human structure gate (DEMO decision)

W3 APPROVAL_REQUIRED
The worker stops and asks for a decision bound to the digest of the structure tree it produced.

Decision recorded
A DEMO approver, clearly labelled, approves exactly that digest.

W4 COMPLETED
The worker re-runs, verifies the decision against the same evidence, and finishes.

L9 ledger
approved by demo-approver-not-a-real-person, promotion current: True; the approved structure is promoted into the canonical graph (in memory).

The decision the worker received


```
{
 "gate": "structure_gate",
 "decision": "APPROVED",
 "decision_id": "demo-decision-esb-1-001",
 "approver_id": "demo-approver-not-a-real-person",
 "approver_role": "demo_approver",
 "at": "2026-11-08T06:08:26Z",
 "evidence_digest": "30dcf40f1e2cdb1572cde5079305c0a644924eeb4ca82718798a480365b00994",
 "rationale": "DEMO DECISION. Recorded by the demo script for a fictional device; it is not an
engineering approval by any real person."
}
```


Refused while preparing it: approver_role "demo-approver" (must be a slug, "demo_approver" accepted) and a decision time in the future ("decided_in_future"). Both refusals are correct behaviour.

Acceptance checks after the decision (W4)

Check	Result	Detail
AC-1	PASS	every input was ingested and bridged; no omission other than an undeclared revision
AC-2	FAIL	30 BOM row(s) not resolved to exactly one entity
AC-3	PASS	structure approved by the recorded decision; 0 node(s) accepted as ambiguous, 0 of them disputed (parent not settled)
AC-4	PASS	report built (an execution status, not engineering acceptance)
AC-5	NOT_EVALUATED	manual check: not evaluated by the worker

COMPLETED is an execution status. AC-4 says so itself: "an execution status, not engineering acceptance". AC-2 still fails, and the report says why.

Status envelopes: every output says what it is

Envelope of the root node (W6 structure tree)


```
{
 "basis": null,
 "producer": {
  "id": "eos.pilot.structure_projection",
  "method": "deterministic",
  "version": "definition-occurrence-1",
  "version_source": "component"
 },
 "provenance": "resolved",
 "sources": [
  {
   "artifact_id": "cad-2",
   "declared_revision": "A",
   "extractor": {
    "backend": "step-clear-text",
    "id": "eos.step_reader",
    "version": "1.2.0",
    "version_source": "component"
   },
   "locator": "part:#5",
   "revision_state": "declared",
   "sha256": "585a03396432e598b929892559d635e8fb911296829789def2f5a0d9684fc681"
  }
 ],
 "unknown_reason": null,
 "verification_state": "candidate"
}
```

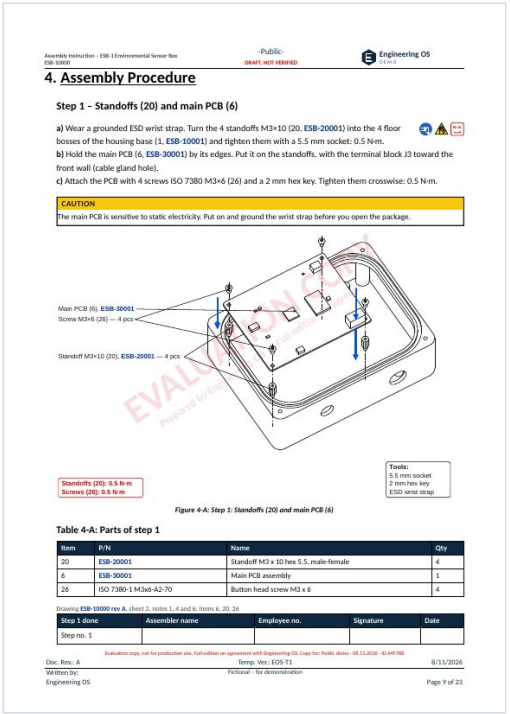

verification_state across the W6 evidence

Evidence	candidate	inconclusive	not_evaluated	confirmed
bom	30	0	0	0
bom_matches	69	8	0	0
findings	0	0	12	0
reconstruction	99	1	3	0
report_json	22	9	15	0
structure_tree	52	0	0	0
total	**272**	**18**	**30**	**0**

> Each output names its producer and method (deterministic or heuristic), its source files by SHA-256 and locator, and a verification state. A pilot output is never "confirmed" (ADR-0035): a recorded human decision is what changes the status of a structure, and it is a separate record (kind "decision").

W6 status COMPLETED; 10 evidence files, each bound to its SHA-256.

Assembly instruction, English and Hebrew (23 pages each)



4. Assembly Procedure

Step 1 – Standoffs (20) and main PCB (6)

a) Wear a grounded ESD wrist strap. Turn the 4 standoffs M3×10 (20, ESB-20001) into the 4 floor bosses of the housing base (1, ESB-10001) and tighten them with a 5.5 mm socket: 0.5 N·m.
b) Hold the main PCB (6, ESB-30001) by its edges. Put it on the standoffs, with the terminal block J3 toward the front wall (cable gland hole).
c) Attach the PCB with 4 screws ISO 7380 M3×6 (26) and a 2 mm hex key. Tighten them crosswise: 0.5 N·m.

CAUTION
The main PCB is sensitive to static electricity. Put on and ground the wrist strap before you open the package.

Main PCB (6), ESB-30001
Screw M3×6 (26) — 4 pcs
Standoff M3×10 (20), ESB-20001 — 4 pcs

Standoffs (20): 0.5 N·m
Screws (26): 0.5 N·m

Tools:
5.5 mm socket
2 mm hex key
ESD wrist strap

Figure 4-A: Step 1: Standoffs (20) and main PCB (6)

Table 4-A: Parts of step 1

Item	P/N	Name	Qty
20	ESB-20001	Standoff M3 x 10 hex 5.5, male-female	4
6	ESB-30001	Main PCB assembly	1
26	ISO 7380-1 M3x6-A2-70	Button head screw M3 x 6	4

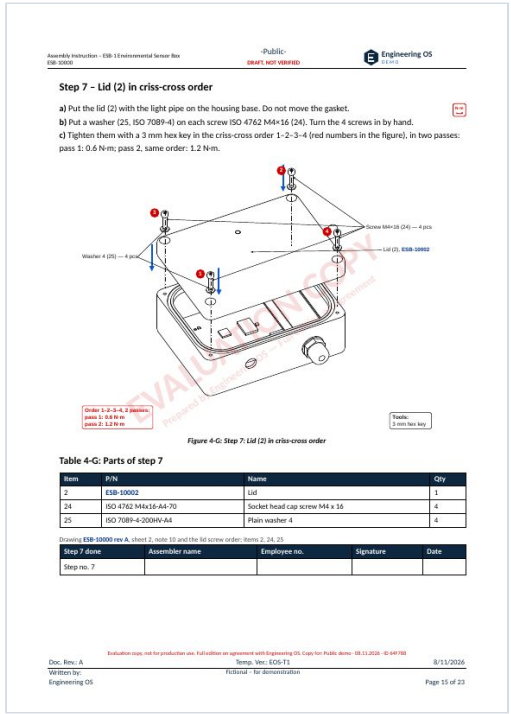
Drawing ESB-10000 rev A, sheet 2, notes 1, 4 and 6; items 6, 20, 26

Step 1 done	Assembler name	Employee no.	Signature	Date
Step no. 1				

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Doc. Rev.: A · Temp. Ver.: EOS-T1 · 8/11/2026
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EN, page 9: step 1



Step 7 – Lid (2) in criss-cross order

a) Put the lid (2) with the light pipe on the housing base. Do not move the gasket.
b) Put a washer (25, ISO 7089-4) on each screw ISO 4762 M4×16 (24). Turn the 4 screws in by hand.
c) Tighten them with a 3 mm hex key in the criss-cross order 1–2–3–4 (red numbers in the figure), in two passes: pass 1: 0.6 N·m; pass 2, same order: 1.2 N·m.

Washer 4 (25) — 4 pcs
Screw M4×16 (24) — 4 pcs
Lid (2), ESB-10002
Order 1–2–3–4, 2 passes:
pass 1: 0.6 N·m
pass 2: 1.2 N·m
Tools:
3 mm hex key

Figure 4-G: Step 7: Lid (2) in criss-cross order

Table 4-G: Parts of step 7

Item	P/N	Name	Qty
2	ESB-10002	Lid	1
24	ISO 4762 M4x16-A4-70	Socket head cap screw M4 x 16	4
25	ISO 7089-4-200HV-A4	Plain washer 4	4

Drawing ESB-10000 rev A, sheet 2, note 10 and the lid screw order; items 2, 24, 25

Step 7 done	Assembler name	Employee no.	Signature	Date
Step no. 7				

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EN, page 15: step 7, criss-cross order



הוראת הרכבה
קופסת חיישנים סביבתיים ESB-1
ESB-10000 rev A

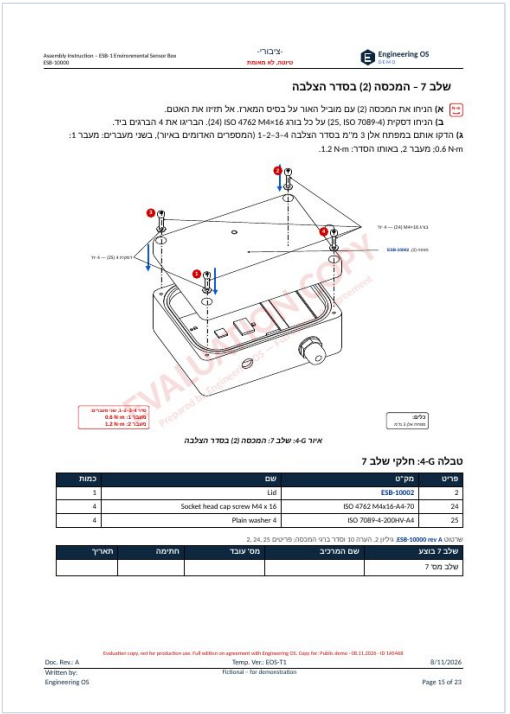
טיוטה, לא מאושרת

זכויות יוצרים © Engineering OS
מסמך הדגמה של המוקד בדיגיטל. לא לשימוש ביצור.

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HE, page 1: cover



שלב 7 – המכסה (2) בסדר הצלבה

א) הניחו את המכסה (2) עם מוביל האור על בסיס המארז. אל תזיזו את האטם.
ב) הניחו דסקית (25, ISO 7089-4) על כל ברג M4×16 (24). הבריגו את 4 הברגים ביד.
ג) הדקו אותם במפתח אלן 3 מ"מ בסדר הצלבה 1–2–3–4 (המספרים האדומים באיור), בשני מעברים: מעבר 1: 0.6 N·m; מעבר 2, באותו הסדר: 1.2 N·m.

איור G-4: שלב 7: המכסה (2) בסדר הצלבה

טבלה G-4: חלקי שלב 7

פריט	מק"ט	שם	כמות
2	ESB-10002	Lid	1
24	ISO 4762 M4x16-A4-70	Socket head cap screw M4 x 16	4
25	ISO 7089-4-200HV-A4	Plain washer 4	4

שרטוט ESB-10000 rev A, גיליון 2, הערות 10 ופרטי ברגי המכסה: פריטים 2, 24, 25

שלב 7 בוצע	שם המרכיב	מס' עובד	חתימה	תאריך
שלב מס' 7				

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Doc. Rev.: A · Temp. Ver.: EOS-T1 · 8/11/2026
Written by: Engineering OS · Fictional – for demonstration

HE, page 15: step 7

Produced by the demo package's own document pipeline (make.sh), outside Engineering OS. On main the Assembly Route Card is "not started" and the CAD view kernel for illustrated work instructions is DOCUMENTED_ONLY. Shown here as the target output that the approved structure and BOM would feed.

What is not implemented yet, and what this run found

From the README "Current capabilities" (main)

- Assembly Route Card: **not started**; work-instruction view kernel: **DOCUMENTED_ONLY**
- Process plans: **PARTIAL**, candidates only, no reviewed route card or renderer
- BOM pictures, label encoding, shape grouping, drawing checks: **DOCUMENTED_ONLY** (ADR-0038)
- DXF, Gerber, IPC-2581 and native CAD formats: **not started**
- Effective-formatting checks: **PARTIAL** (ADR-0019 Proposed)
- CAD and CAE backends: **SCAFFOLDED**, no live run verified
- Workspace file upload and graph navigation: **not started**
- Evidence spine, revision identity, baselines: **DOCUMENTED_ONLY**

Found by this run (reported, not fixed)

- **Merged BOM titles are refused.** Registered debt L10-FM-GEN-D1 (P2), reproduced. The code also refuses any merged anchor that holds text under SV-X-01, while ADR-0019 SV-X-16 admits text that fits the summed merged width. Reproduction: eos/repro_merged_title_refusal.py.
- An assembly drawing with a "P/N" parts-list column is refused as a malformed title block.
- The board BOM reader needs the exact headers "Quantity" and "Designator".
- CAD exports with one PRODUCT per body give one draft line per body and ambiguous BOM rows; grouping by shape is not implemented.
- The approved-structure service has no production composition outside tests; the demo wired it with its own in-memory adapters.

Reproduce

Commands (from the demo root, Python 3.12)

```
python -B eos/run_pilot.py --eos-root /data/repos/Engineering-OS
python -B eos/compare_bom.py
PYTHONPATH=/data/repos/Engineering-OS/src python -B eos/repro_merged_title_refusal.py
WEASYPRINT=/path/to/weasyprint python -B eos/make_presentation.py --pdf
```

Outputs

- eos/out/summary.json: every stage with its status or exact refusal
- eos/out/run.log: the run log
- eos/out/worker/: six worker attempts (order, result, evidence files)
- eos/out/library/: library-path JSON and the two BOM draft workbooks
- eos/out/comparison.json: EOS against the demo BOM

Ground rules of the run

- Engineering OS main `c7d0cce76d730ed6d645d2b0bb8c8e95f5a5b172`, used read only
- In-memory adapters only: no PostgreSQL, no network, no AI-Orchestrator dispatch
- Every worker attempt labelled LOCAL_REHEARSAL
- Every approval is a DEMO decision by "demo-approver-not-a-real-person"
- A refusal is recorded as a result; no output was edited or invented