THE DECEPTICON WORKBENCH

Programming gives a box from the shelf its position on one boat, before it is fitted. Once the boat is chosen, you only select the position: the Decepticon workbench loads the firmware, the address and the settings that go with it, then prints the label to stick on the box.

FROM THE SHELF TO THE BOAT, ONE BOX AT A TIME

FROM THE SHELF
CAN / CAN BASIC · no job, no address

›

- **FIRMWARE** what it is
- **ADDRESS** which one it is
- **SETTINGS** essential parameters

the Decepticon workbench, in one run

›

READY TO FIT
P_180 VICTRON · with its label

ON THE WORKBENCH

Laptop — runs Decepticon, in its browser.

CAN adapter — a Kvaser USB to CAN adapter.

Label printer — a Brady i3300, on USB; labels of 50.8 × 25.4 mm.

12 V supply — a 230 V AC to 12 V DC supply: it powers the box.

One box at a time — the workbench reads one box. Finish a box, unplug it, then plug in the next.

BEFORE THE FIRST BOX

The boat — one configuration per boat model and cabin layout. Select the boat the box is for. The workbench remembers it: the boat's name stays in the top bar.

Test — before the first box, press Test in the top bar: one sample label comes out. No label? Check that the printer is switched on, loaded with labels and plugged in on USB, then press Test again.

STEP BY STEP

01 Scan — plug the box into the workbench, then switch its 12 V on. Press Scan. On the left: what the box is today. On the right: the positions it can take on this boat.

02 Choose the position — the workbench shows only the positions this box can take. Select the position the box will take. For a replacement, it is the first line of the label on the box you take out. The tap starts the run.

03 The run — a window opens over the dashboard: Programming. A dot turns green when its step starts. Leave the box plugged in and powered while it runs. When the last step is done, the window closes by itself, with no red message.

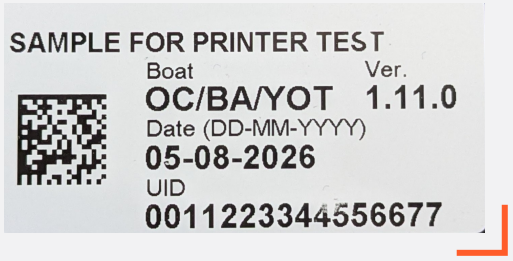
04 Check the result — after the run, the workbench scans the box again. Same box: same UID. It now has an address, the firmware of its position, and a new MUXEN Code.

05 The label — stick the label on the box: it ensures a correct installation on board.

A run takes between one and three minutes.

IDENTIFICATION

Sample of the label to stick on MUXEN products



THEN, ON THE BOAT

Once fitted on the boat, the MUXEN equipment is ready to receive its final settings, according to the commissioning options.

Switch the power off, fit the programmed gateway or replace the failed one, switch the power back on.

On the on-board screen, open Diagnostics → Devices, the CAN/CAN tab, and find it. Tap Search device: it answers Connected. Tap Deploy, then Check configuration.

UPDATES

The Decepticon workbench may need updates to:

› Prepare a new boat model or layout.

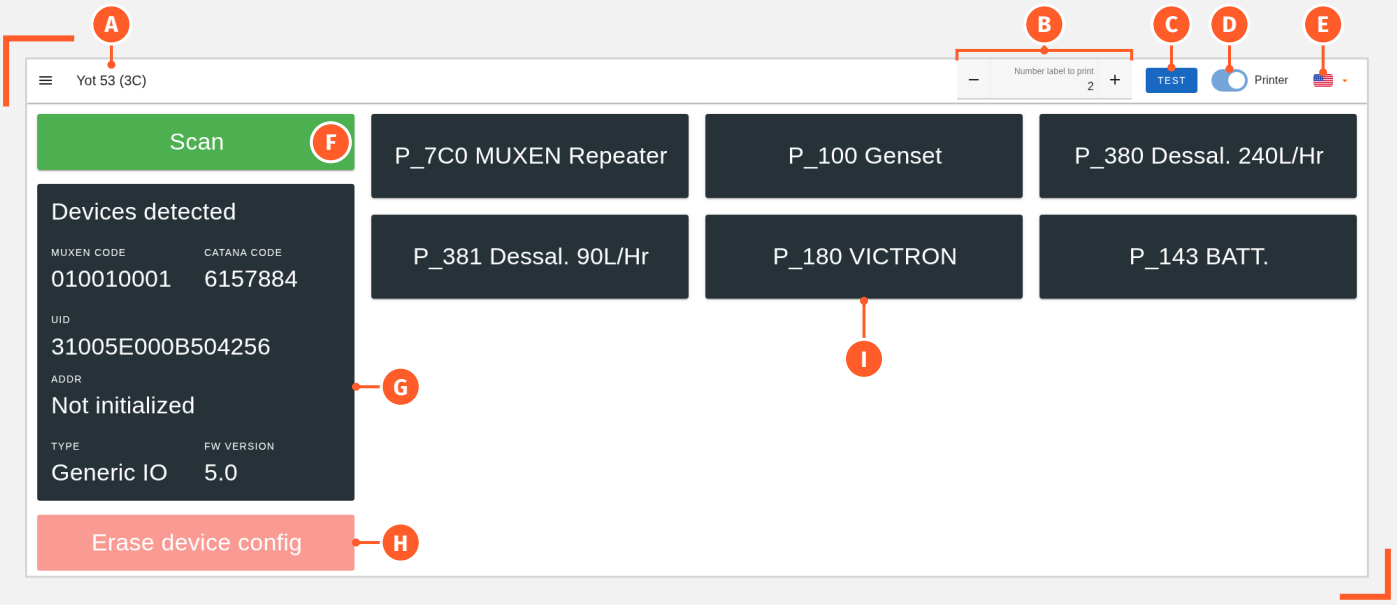
› Program up-to-date firmware into the devices.

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THE DASHBOARD, PART BY PART

A generic gateway scanned. On the left: the box. On the right: the positions it can take.

DECEPTICON, THE DASHBOARD · YOT 53 (3C)



- **A** **The boat** — the workbench remembers it: its name stays in the top bar. To change boat, tap the menu icon, top left.
- **B** **Number label to print** — labels printed per run: 1 to 5.
- **C** **Test** — prints a sample label.
- **D** **Printer** — off: a run programs the box and prints no label.
- **E** **The flag** — the language: French, English, Portuguese.
- **F** **Scan** — reads the box that is plugged in.
- **G** **Devices detected** — what the box is today. MUXEN Code: here 010010001, a generic CAN/CAN. CATANA Code: the yard's part number. UID: the unique number of the box. Addr: Not initialized, no position yet. Type: the kind of device it answers as. FW Version: its current firmware.
- **H** **Erase device config** — the red button erases the settings and the address of the box: it reads Not initialized again. Its firmware stays. Use it when you tapped the wrong position, when a box comes back from a boat and returns to the shelf, or when a security check failed.
- **I** **The positions** — only the positions that fit the box currently connected. A box with no position on this boat reads No compatible choice.

NO DEVICES DETECTED

After Scan. Check in this order:

01 The box has no power — power off for 10 s, then switch the 12 V DC supply on, then Scan.

02 The CAN cable is loose — reseat it at both ends, then Scan.

03 Two boxes are plugged in — leave one, then Scan.

A powered gateway blinks its LED once a second. No blink: check the power.

NO COMPATIBLE CHOICE

The wrong boat is selected — check the boat's name in the top bar, and the reference of the products delivered by logistics.

This boat does not take that box — put it aside.

THE MESSAGES, AND WHAT TO DO

Device scan failed — no dot is green: the workbench did not find the box again. Nothing was written. Cable and 12 V, tap Close, then Scan, and tap the position again.

Device changed — not the box you scanned: Scan again.

Firmware update failed — keep it powered, Scan, program again. A firmware update that fails does not break the box: it keeps the firmware it had.

Security check failed — what the workbench read back from the box is not what it wrote. No label is printed. Press Erase device config, then program the box again. If it fails a second time, return the box to MUXEN.

Programming failed, at Printing — the printer: press Test.

Bench software too old — Decepticon update: ask the boat R&D team.

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