



Opti-Box User Manual for Development Optimiser B

On Twin-boom Jumbo Rig - Underground Drilling
(EXTERNAL)



*External Hexagon Development Optimiser B Opti-Box User Manual (Twin-Boom Jumbo Rig - Underground Drilling)
- Hardware v1.0*

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FCC/ISED Statements of Compliance for Class A Device (Development Optimiser B Opti-Box) CAN ICES-003 (A) / NMB-003 (A)

(15.19) This device complies with Part 15 of the FCC Rules and with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:(1) This device may not cause interference; and(2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

(15.21) Warning: Any changes or modifications not expressly approved by the grantee could void the user's authority to operate this equipment.

(15.105) Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

RF Exposure Statement: This equipment complies with the FCC and ISED Canada radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and all persons during normal operation.

Cet équipement est conforme aux limites d'exposition aux rayonnements de la FCC et ISED Canada établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et toutes les personnes pendant le fonctionnement normal.

Document Revision History

Released Version	Date	By	Comments
1.0	16 October 2025	Alexis Aw, Kieran Lee, Joe Devassy	User Manual for Development Optimiser (DevOp) B Opti-Box hardware unit v1.0.

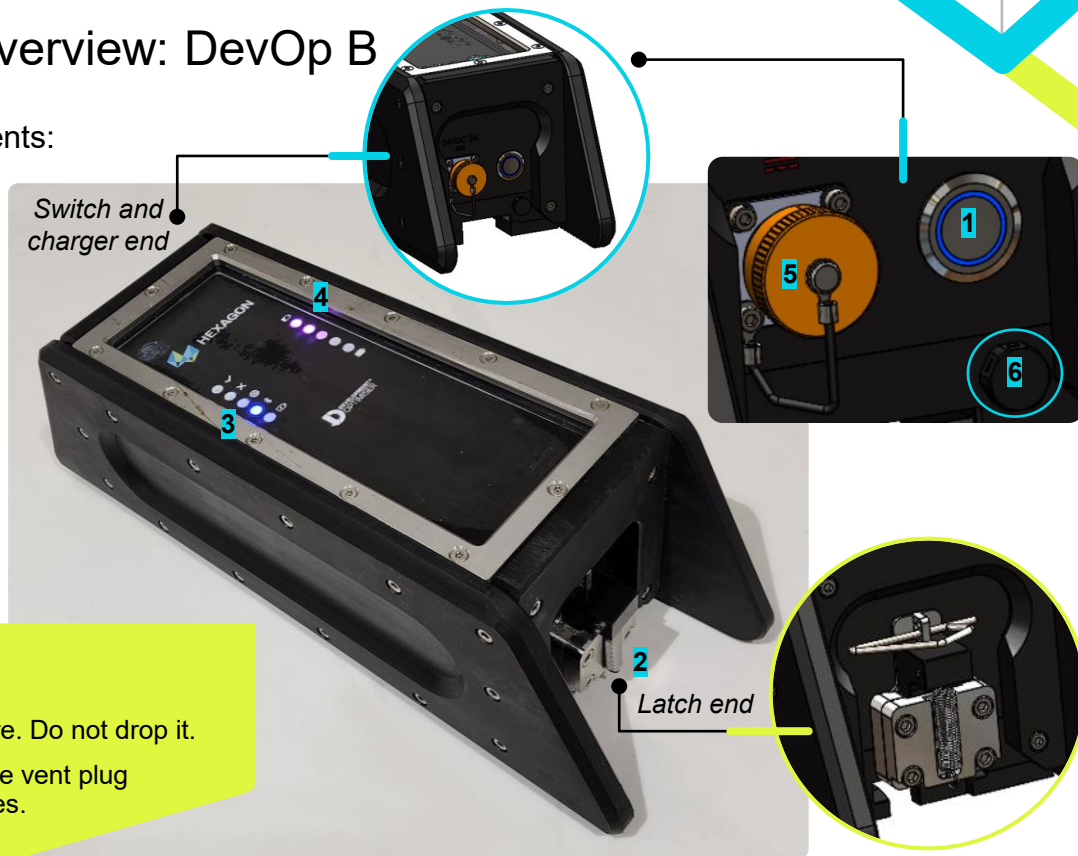
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A.1 - Product overview: DevOp B

Key Opti-Box components:

- 1** Power button
- 2** Latch
- 3** Light statuses – Operational and Battery Charging
- 4** Light statuses – Power Levels
- 5** Charge socket
- 6** Vent plug

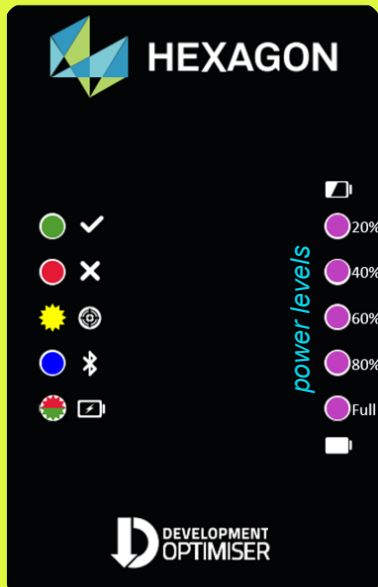


CAUTIONS

Handle the unit with care. Do not drop it.

Do not loosen or remove vent plug under any circumstances.

A.2 - LED light statuses



OPERATIONAL STATUSES



Steady Green = Ready

Turns ON after settling is completed.



Steady Red = Error



Flashing Yellow = Settling

Turns OFF after settling is completed.



Blue = Tablet is Connected (Bluetooth)

Steady Blue = One tablet

Flashing Blue = Multiple tablets

BATTERY CHARGING STATUSES



Steady Red = Charging

Steady Green* = Fully charged

Fast Flashing Red/Green = Battery disconnected

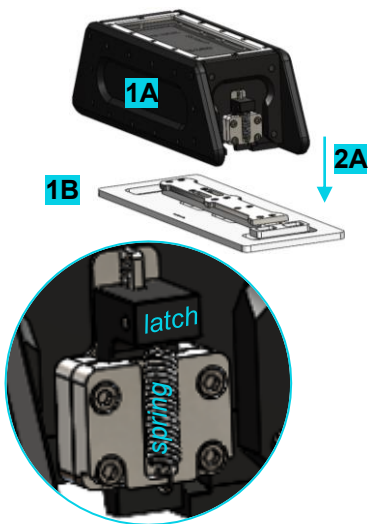
Slow Flashing Red/Green = Temperature fault, battery overvoltage, or expired 20-hour safety timer.

** If input power voltage from rig is too low, LED light may show steady green while not fully charged – check input voltage.*

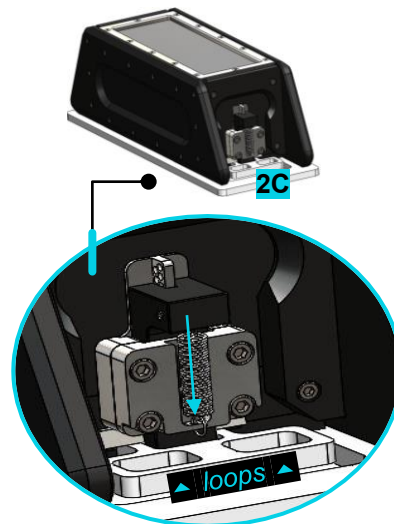
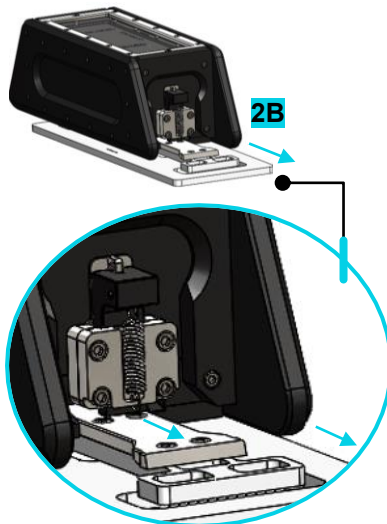
B.1 – Mount DevOp B Opti-Box to wedge plate 1 of 3

First, mount Opti-Box unit to wedge plate for stability before mounting on boom rail.

1 Position **1A** unit 5cm to 10cm away from flat side of **1B** wedge plate.



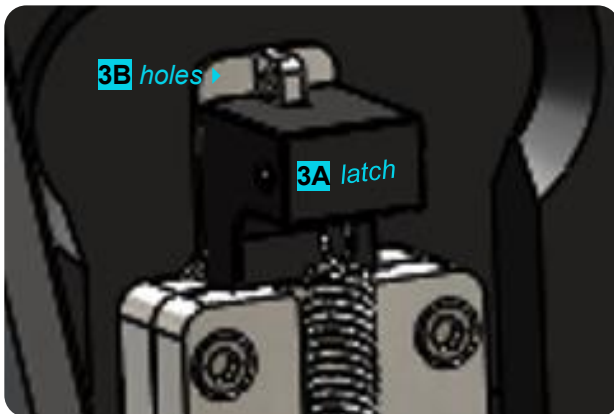
2A Push unit onto wedge plate and **2B** slide it towards flat sloped edge of plate (Position **2C** near two **loops**) until **latch** can engage (**spring** helps to pull latch down).



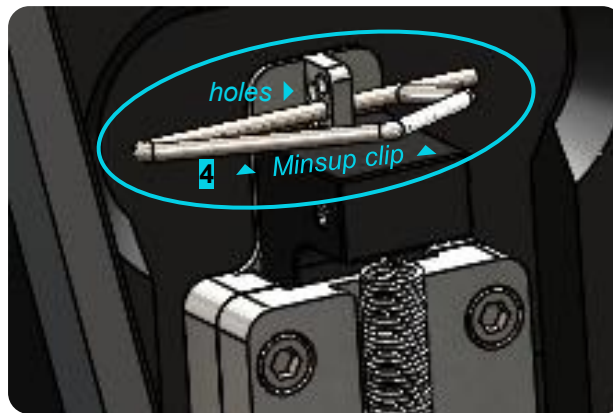
B.2 – Affix Minsup clip 2 of 3

Opti-Box unit securely to wedge plate with Minsup clip through latch.

3 Ensure **3A** latch has engaged enough so Minsup clip can pass through at least **3B** one hole above latch.



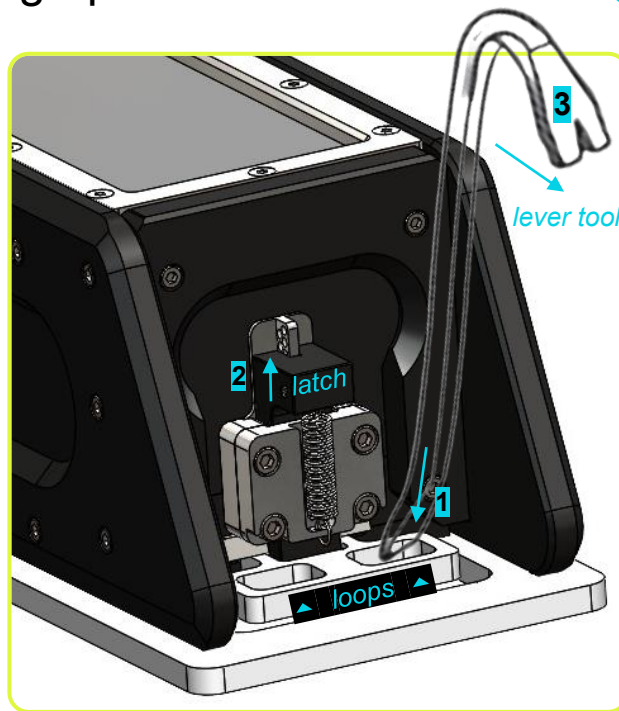
4 Place Minsup clip on lowest available hole to keep Opti-Box securely latched.



B.3 – Remove Opti-Box from wedge plate 3 of 3

PRE-REQUISITE – Obtain sturdy straight metal tool (e.g., crowbar or tyre lever) to use as lever.

- 1** Insert tool into a **loop** on weld plate.
- 2** With one hand, lift **latch**.
- 3** With other hand, gently apply pressure with **lever tool** to loosen Opti-Box from wedge plate.
- 4** Once Opti-Box is loose, use both hands to remove unit completely from wedge plate.



Development Optimiser B Opti-Box User Manual (External) | Restricted use by authorised mine personnel only.

C – Operate DevOp B Opti-Box

See Page 7 for what light statuses means.

Switch on

- 1 Push power button **on** to illuminate blue light ring.
- 2 (L-R) LED lights self-check in Opti-Box window (all lights cycle through several colours) then turn off. Finally, current statuses are displayed.

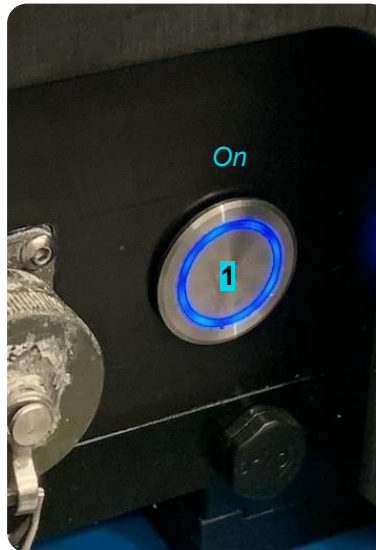


Switch off

- 3 Push button to turn light **off**.

CAUTION

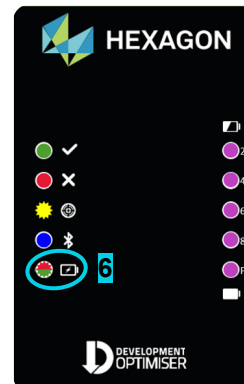
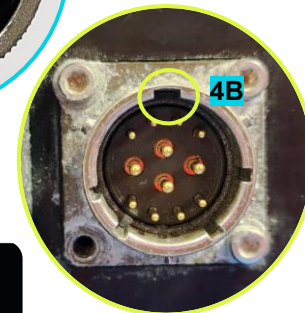
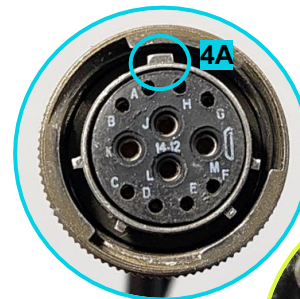
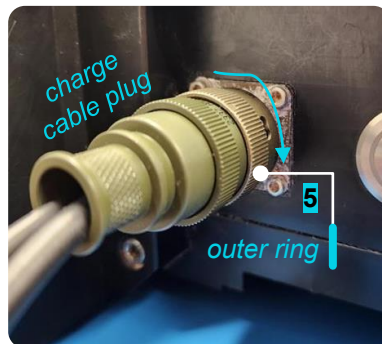
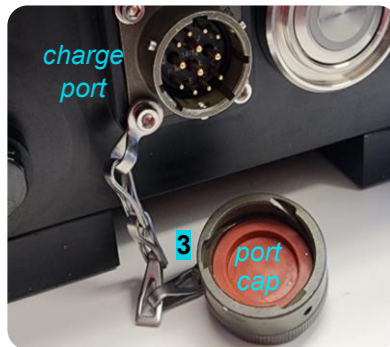
If power button light ring blinks twice when pressed, Opti-Box battery may be flat. Charge unit.



D – Charge DevOp B Opti-Box 1 of 2

Charge Opti-Box unit

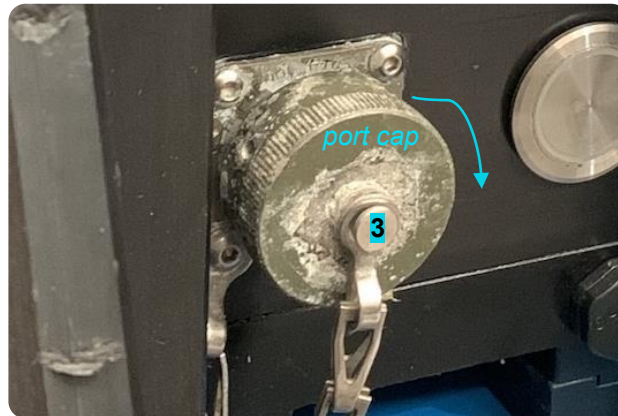
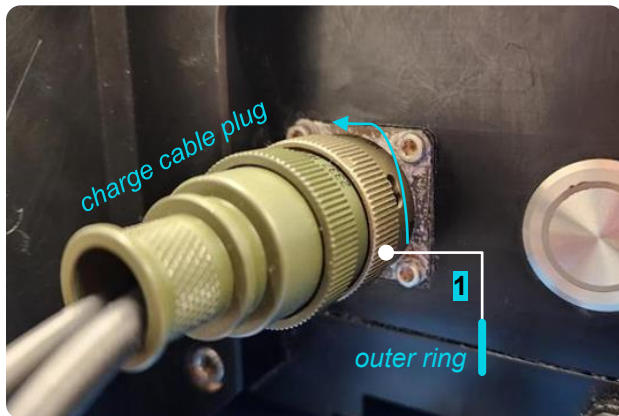
- 1 Turn unit off.
- 2 Place Opti-Box on wedge plate at charging station.
- 3 From charger end of unit, remove MILSPEC protective charge port cap from charge port by twisting counter-clockwise.
- 4 Line up **4A** wide lug of charge cable with **4B** wide keyway slot of Opti-Box charge port, and plug it in.
- 5 Push and twist charge cable plug's outer ring (closest to connection point) clockwise until it clicks into place.
- 6 Check Opti-Box window that   red charge light is on (more details on Page 7).



D – Charge DevOp B Opti-Box 2 of 2

Remove Opti-Box unit from Charger

- 1** Twist **charge cable plug's outer ring** **counter-clockwise** until plug detaches from unit.
- 2** To protect charge port, plug charge cable into retaining port.
- 3** On Opti-Box, push and twist charge **port cap** **clockwise** until it clicks into place.
- 4** Opti-Box can now be safely removed from wedge plate at charging station.



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