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OBC v2.0 On Board Computer Replica

80S ENGINEERING OBC v2.0 On Board Computer Replica Instruction Manual

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Product Usage Instructions

 Hour and date.

 GPS speed and overspeed alarm.

 0-60 and 1/4 mile timers.

 Lap timer.

 Consumption, range, remaining fuel, and trip odometer.
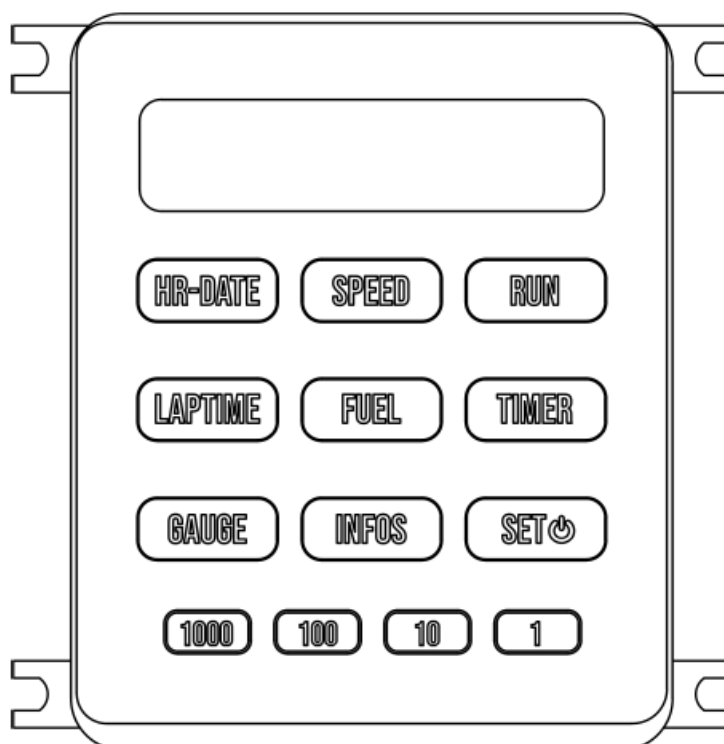
TIMER Stopwatch.

GAUGE Voltmeter, oil pressure and temperature, with overheat alarm.

INFOS Outdoor temperature, altimeter, heading, and g-sensor.

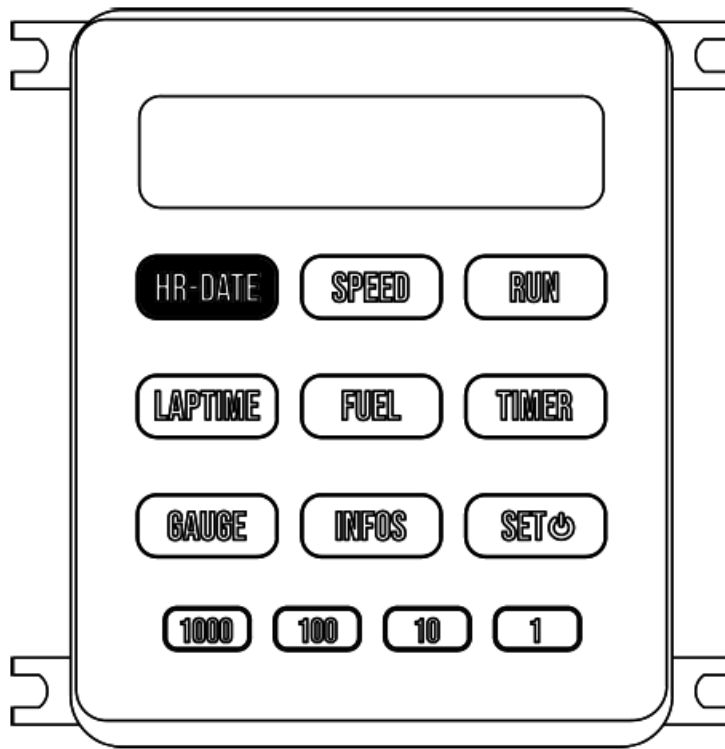**SET⏻** Setting/Resetting and on/off.

●:Only for compatible setups

HOUR/DATE:

Press the designated button **HR-DATE** to display the current time. Press again to switch to the date view.

Adjust the time and date by pressing the appropriate buttons. **SET⏻**

GPS SPEED:

Press [SPEED] to view the current GPS speed.d Press to display the current GPS speed. The overspeed alarm can be activated using [SET⏻]. Press once to set the limit speed using the numerical buttons, and press again to activate the alarm ('ON' will be displayed). Repeat the operation to deactivate the alarm. In case of an overspeed, 'LIMIT' will blink on the screen until you slow down. You can ignore the alarm by pressing
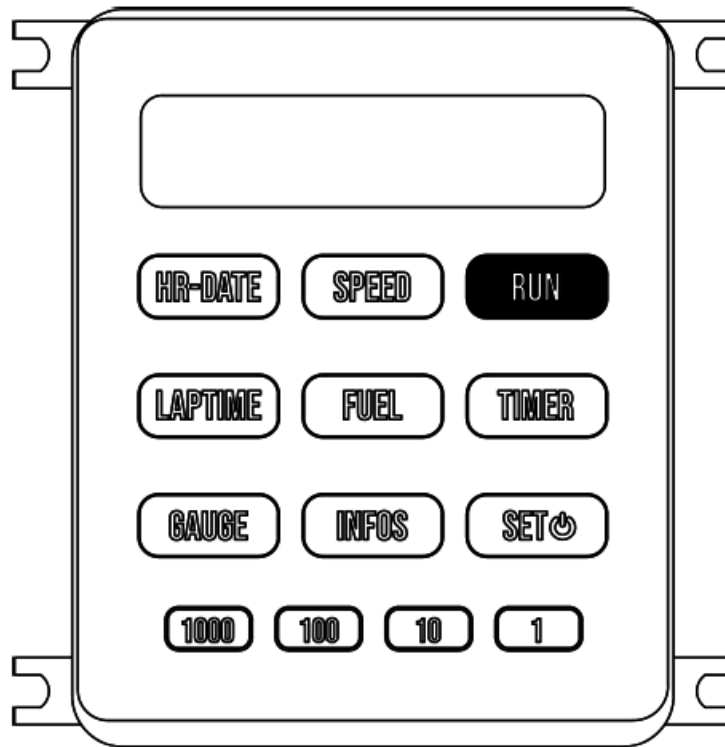
[SET⏻] .
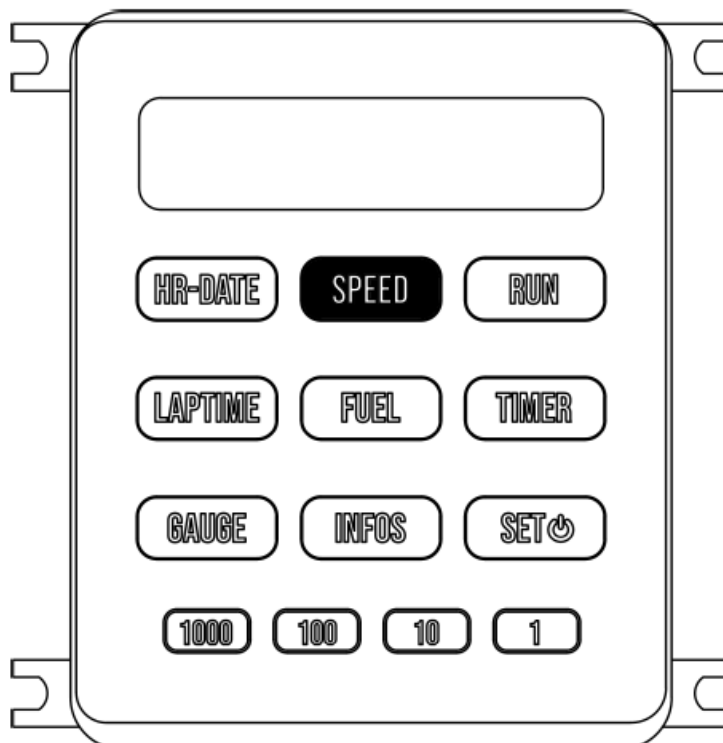
0-60 and 1/4 MILE TIMER:

Press **RUN** to display the 0-62 timer. 'READY' will be displayed once at full stop. The 0-62 timer will start right when an acceleration is detected and will stop once you reach 62mph (100km/h). Press **RUN** again to display the 1/4 mile timer, which operates the same.


LAP TIMER:

Press **LAPTIME** to display the lap timer. Press **SET⏻** to set the starting line to your current position. A running timer will then get displayed, until you cross the starting line, which will display the elapsed lap time. Your fastest lap and delay with it will also get displayed on the following laps.

Press **SET⏻** to end the lap timing. Your fastest lap and total number of laps will be displayed.
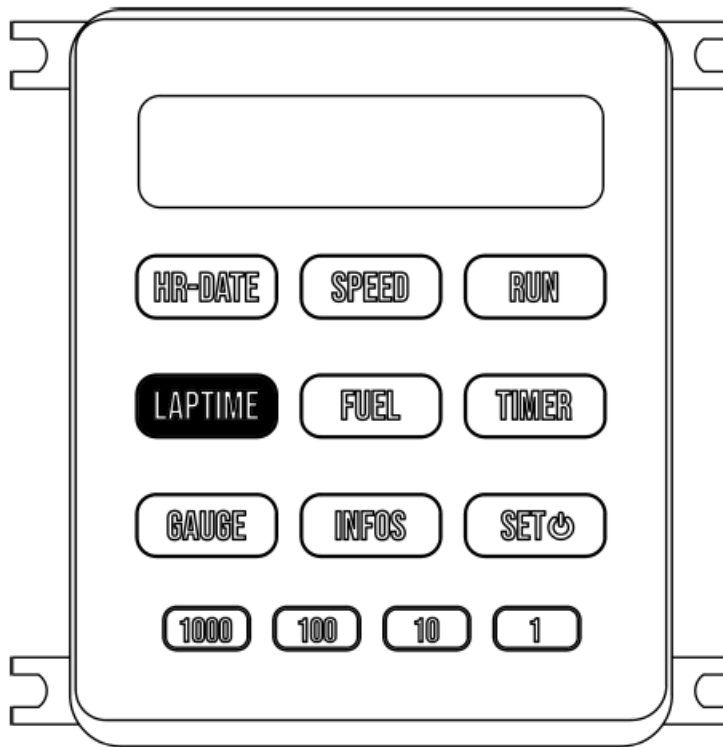
MPG, RANGE, REMAINING FUEL, AND TRIP ODOMETER:

Successively press [FUEL] to display your hourly fuel consumption, mileage, range, remaining fuel (if compatible), and trip odometer. Those values are computed from variables (injector size, engine type, etc) that need to be set up. Please refer to page 12. The tripp odometer can be/reset using [SET⏻]
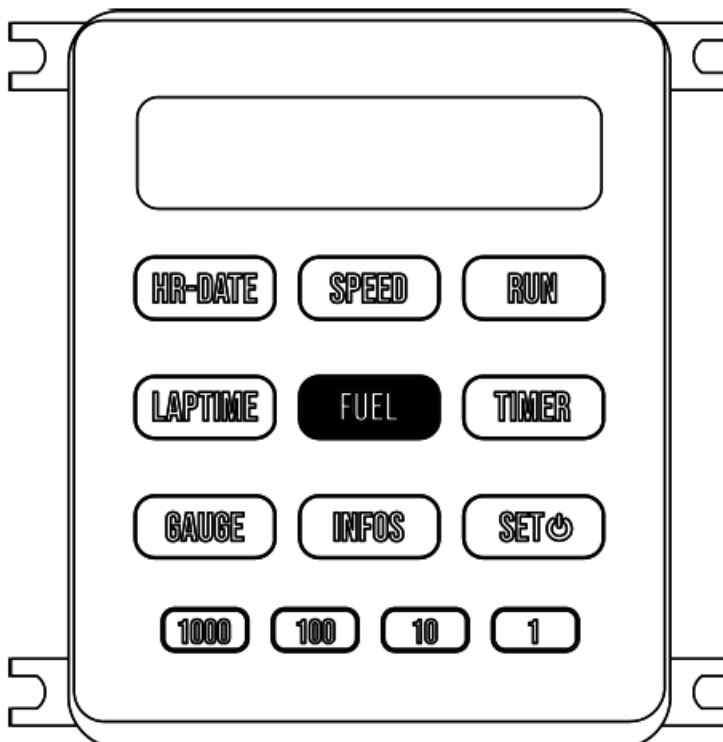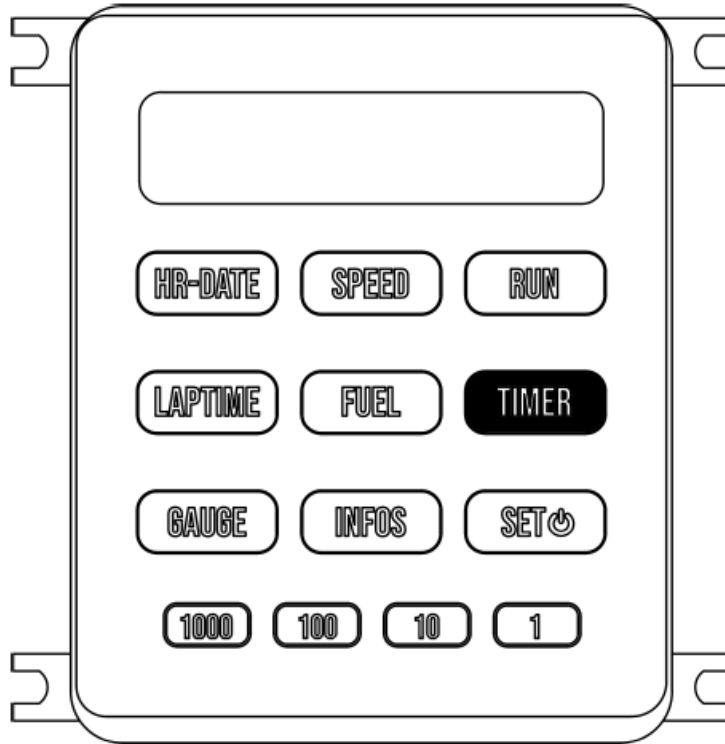

TIMER:

Press **TIMER** to display the stopwatch. It can be started and stopped with. Once stopped, **SET⏻**

press **TIMER** to reset. The stopwatch features a split function allowing for the timing of a second interval, which can be activated by

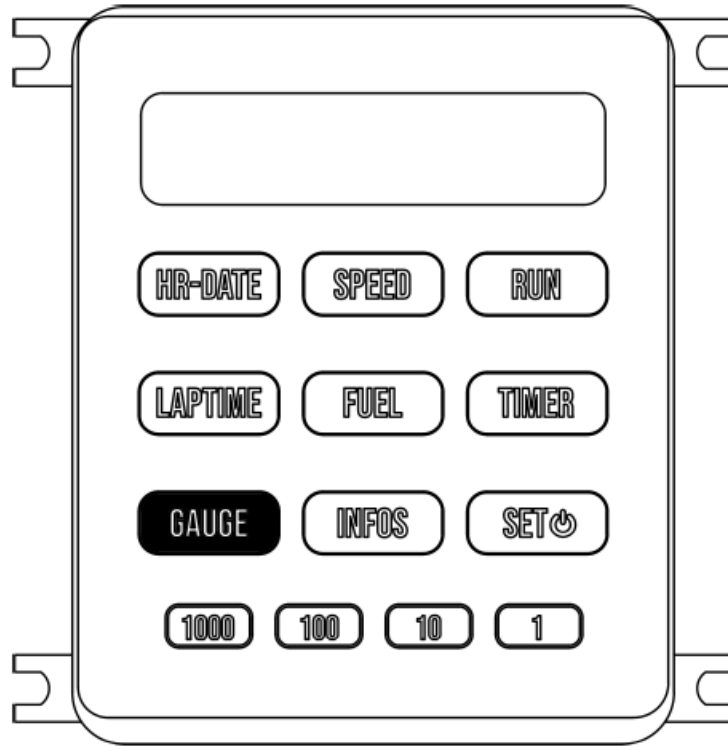Pressing **TIMER** when the stopwatch is running

GAUGES:

Successively press **GAUGE** to display the oil pressure, oil temperature (if equipped), and voltage. An

overheat alarm can be activated by pressing **SET⏻** , which will display an alert message if your

temperature exceeds a pre-selected value, which can be ignored by pressing **SET⏻**

INFORMATION. Successively press to display outdoor temperature (if equipped), accelerometer, current heading, and altimeter.
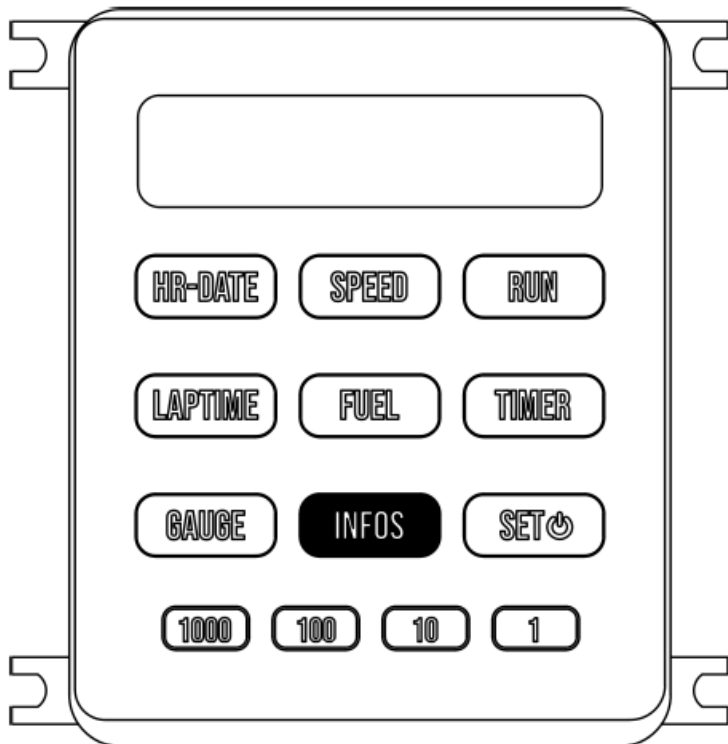
SET/RESET:

Press and hold to power on/off the onboard computer. The OBC will automatically power off if left inactive for an extended period
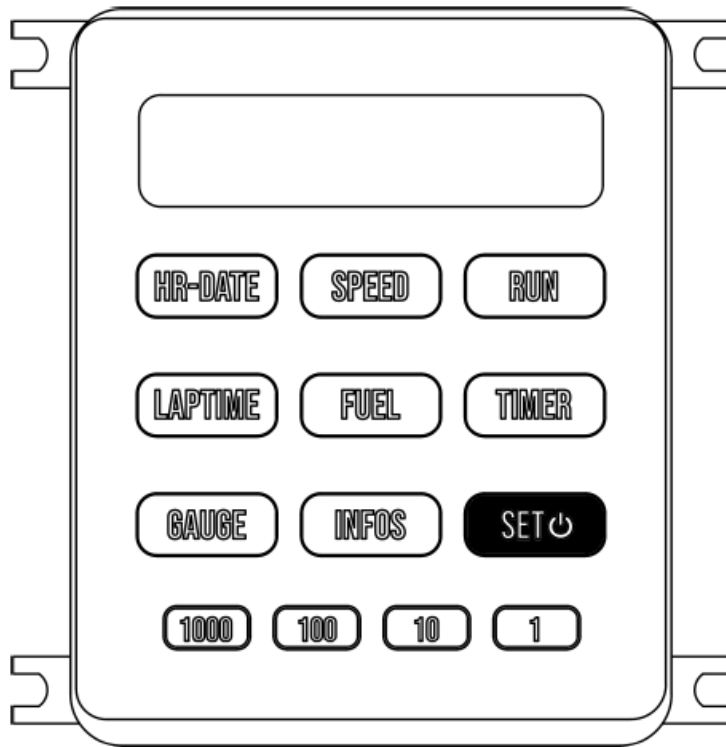
Digits

As mentioned earlier, some functions may take numerical values. These values can be entered using the dig

buttons. Example: Pre ss + + + to enter 112. You can also enter negative numbers by pressing and holding the corresponding buttons.

Settings

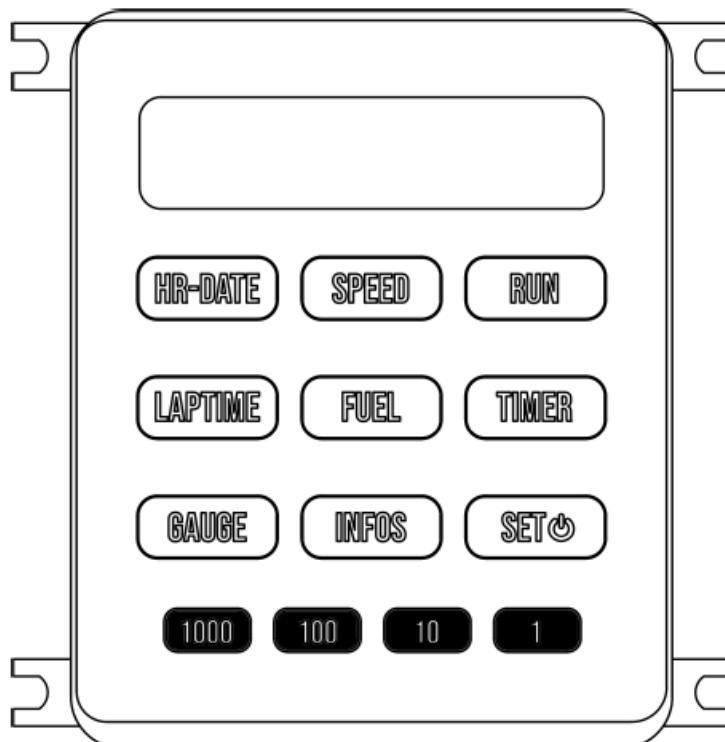Settings can be accessed by simultaneously pressing [1000] and . [10] Each setting is associated with a corresponding number, as described in the following table:

SET number	Setting	Description
0	Language	Switch between German, French and English
1	Clock format	Switch between 24h and AM/PM format
2	Unit	Switch between metric and imperial system
3	Software update	See following page
4	Brightness	Set display brightness in range 0 to 15
5	Sensors	Enables oil temp/pressure gauges (requires adequat sensors)
6	Outdoor temp.	Enables outdoor temperature gauge (requires adequat sensor)
7	Wiring	Switch between Clock/OBC6/OBC13 wiring
8	Auto power-off	Adjust auto power-off delay (between 1 to 24 hours)
9	G-sensor error	Correct potential X-Y error. To be adjusted on flat surface
10	Logging	Enables logging for software debugging.
11	Injector-cc	Set injector size.
12	Cylinder number	Set cylinder number.
13	Injector calibration	Adjustable factor for fuel consumption calibration.
14	Tank size	Select between 55L and 60L depending on your tank volume.

Wifi UPDATES.

- New software updates will frequently be released to fix potential bugs and add features.
- To install them, please navigate to the setting "SET 3".
- For one minute, the OBC will try to connect to a known Wi-Fi hotspot to download the latest version of the software.
- If no known WiFi hotspot is available, or if none has ever been registered, the device will become an access point, waiting for you to connect to it.
- Using either your phone or your computer, please look up the "E30 OBC" WiFI hotspot.
- Once connected to it, you will get redirected to obc-80s.engineering.
- There, please type in an available WiFi hotspot SSID and password.
- Once registered, the OBC will use those WiFi credentials to attempt to connect to the internet, where it will download the latest software. (from **https://github.com/80sEngineering/OBC)**

Setup

You are connected to the OBC wifi setup page, where you can connect the device to internet, for it to download software updates.

Please type in your hotspot's SSID and password:

WiFi

The password will be case sensitive, so be sure to enter it correctly.

SSID: [Other... ⊟] This is a required field.
Password: [WiFi Password] This is a required field.
[Save Settings]

More information

- SIGNAL'implies that the GPS module is searching for a satellite signal. It will be displayed if the car is underground or if the
- OBC has not been used in some time. It should disappear in about 30 seconds with good visibility of the sky.
- Electrical characteristics:
  - Supply voltage: 7-25V
  - Maximum operating consumption: ~180mA
  - Current consumption when off: <0.3mA (essentially nothing)

Any iissues:
Please reach me at contact @80s.engineering or on Instagram @80s.engineering for a faster answer.
Thanks for your support and bonne route!

FAQs

Q: How do I set up the variables for fuel-related information?
A: Please refer to page 12 of the manual for instructions on setting up variables such as injector size and engine type.

Q: How can I ignore an alarm triggered by overheat?
A: You can ignore the overheat alarm by pressing the designated button, as mentioned in the manual.

Q: What happens if I leave the OBC inactive for a long time?
A: The OBC will automatically power off if left inactive for an extended period to conserve energy.

Documents / Resources

	80S ENGINEERING OBC v2.0 On Board Computer Replica [pdf] Instruction Manual OBC v2.0, OBC v2.0 On Board Computer Replica, On Board Computer Replica, Computer Replica

References

- ○ **GitHub - 80sEngineering/OBC**

- **User Manual**

- **User Manual**