(M-DATE) Hour and date.

SPEED) GPS speed and overspeed alarm.

RNN) 0-60 and 1/4 mile timers.

LAPTIME) Lap timer.

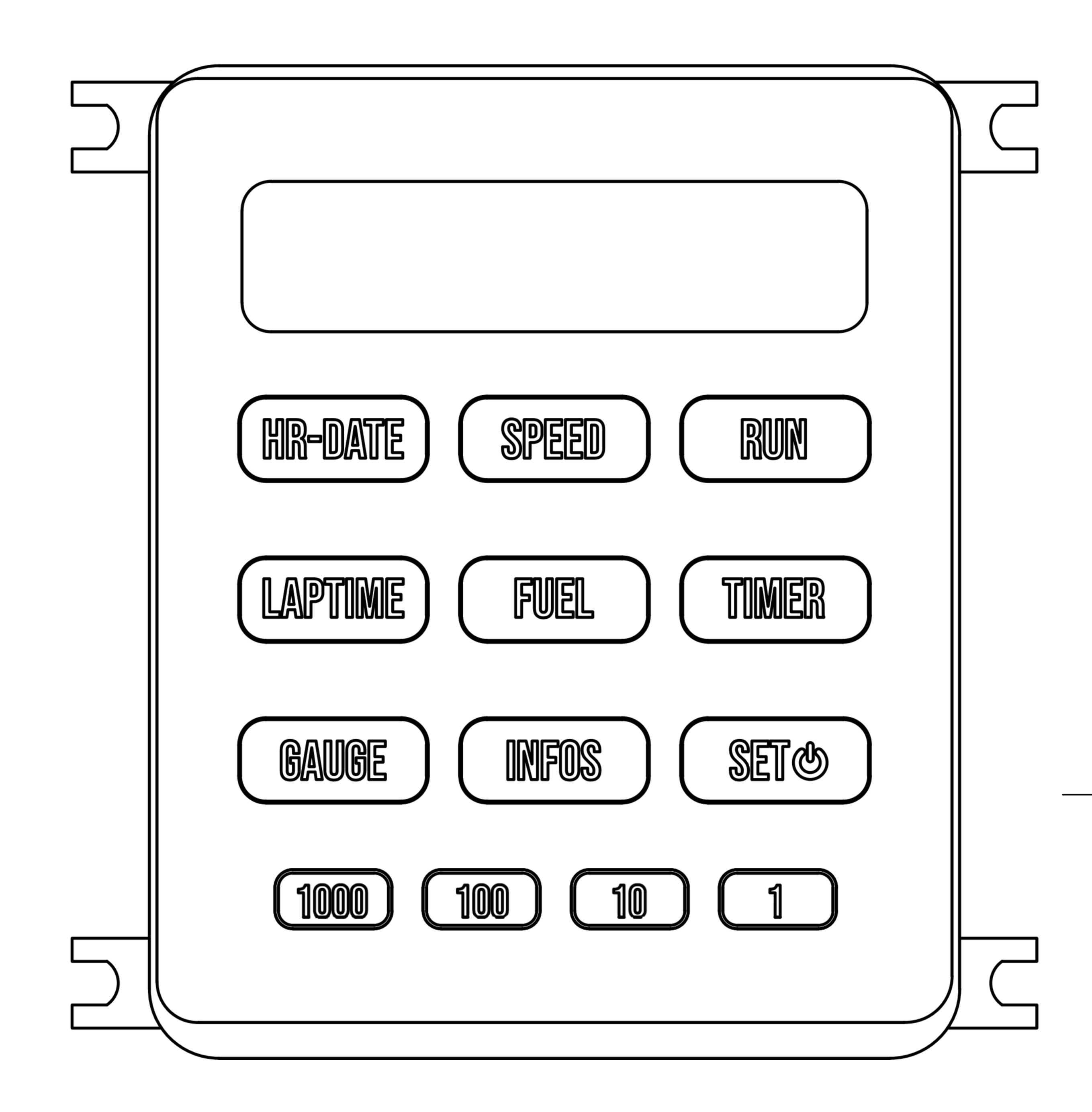
Consumption, range, remaining fuel and trip odometer.

TIMES Stopwatch.

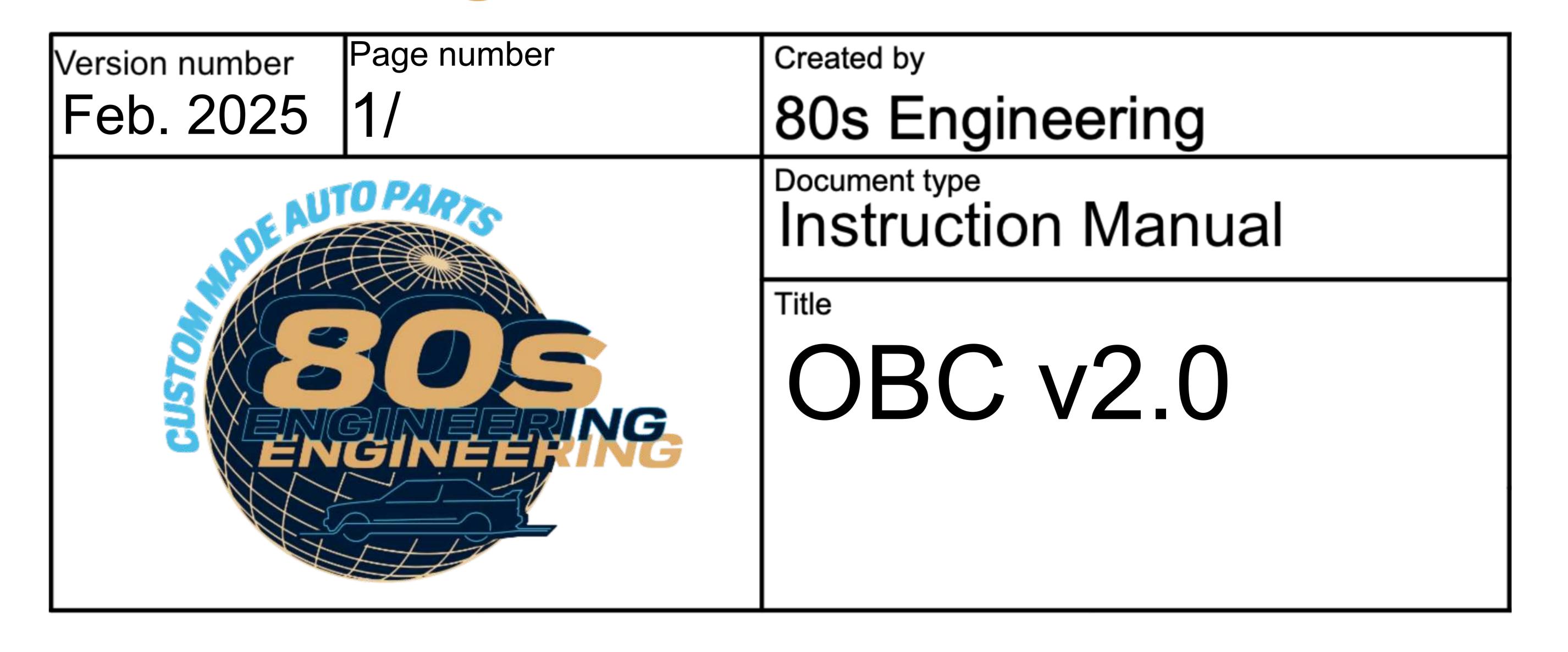
Voltmeter, oil pressure and temperature, with overheat alarm.

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

劉) Setting/Resetting and on/off.

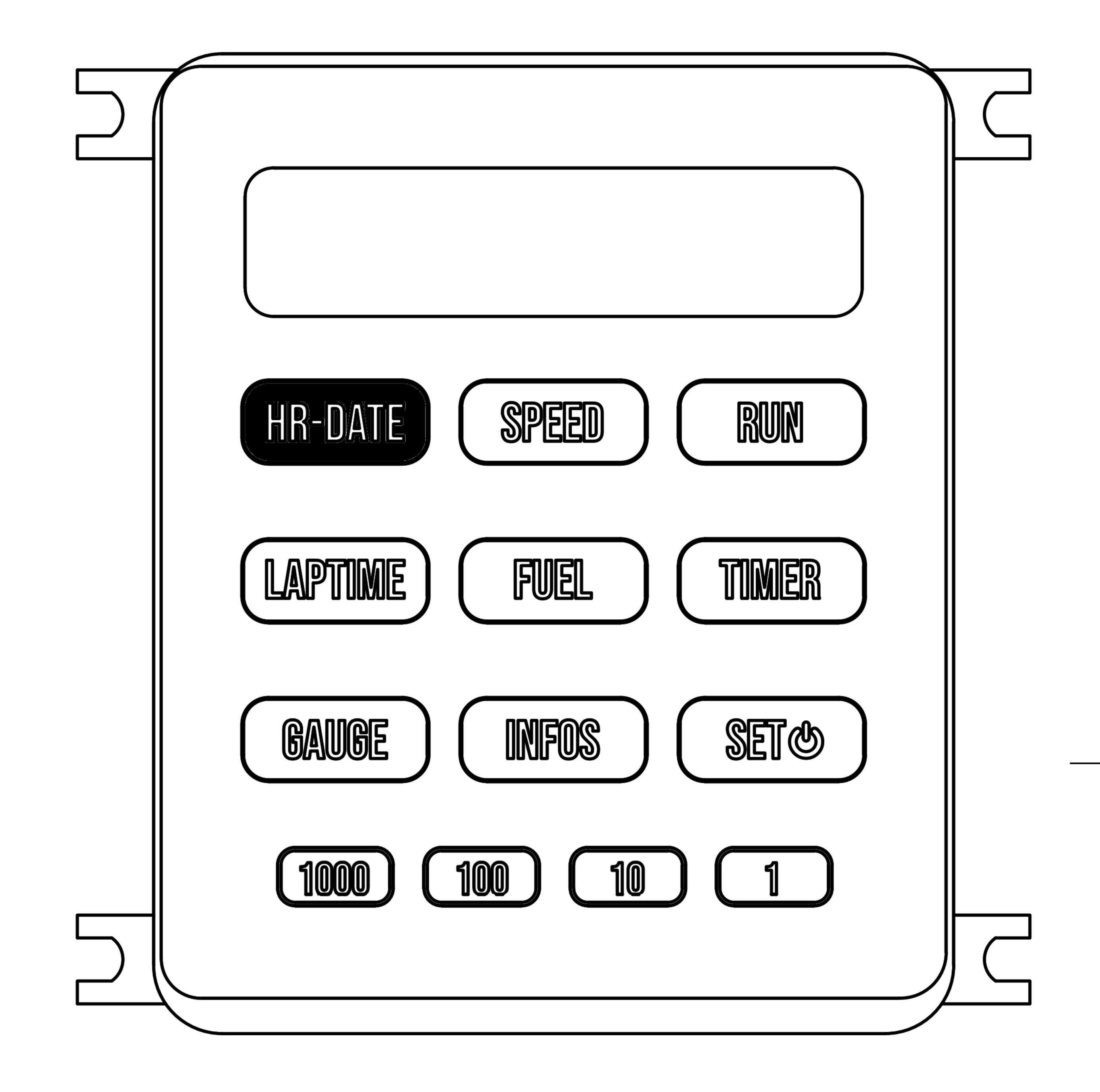


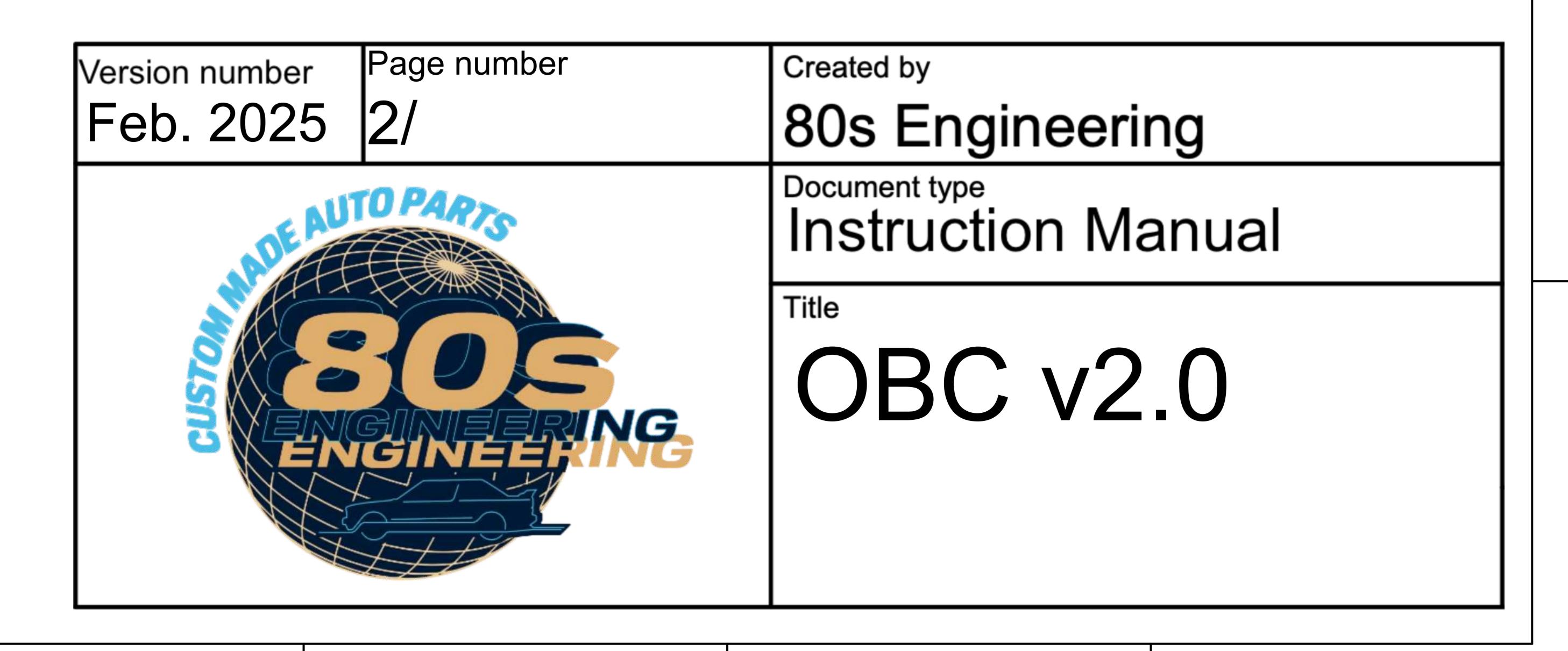
:Only for compatible setups



HOUR/DATE

Press (R-MT) to display the current time. Press again to display the date. Both time and date can be adjusted by pressing (STO).



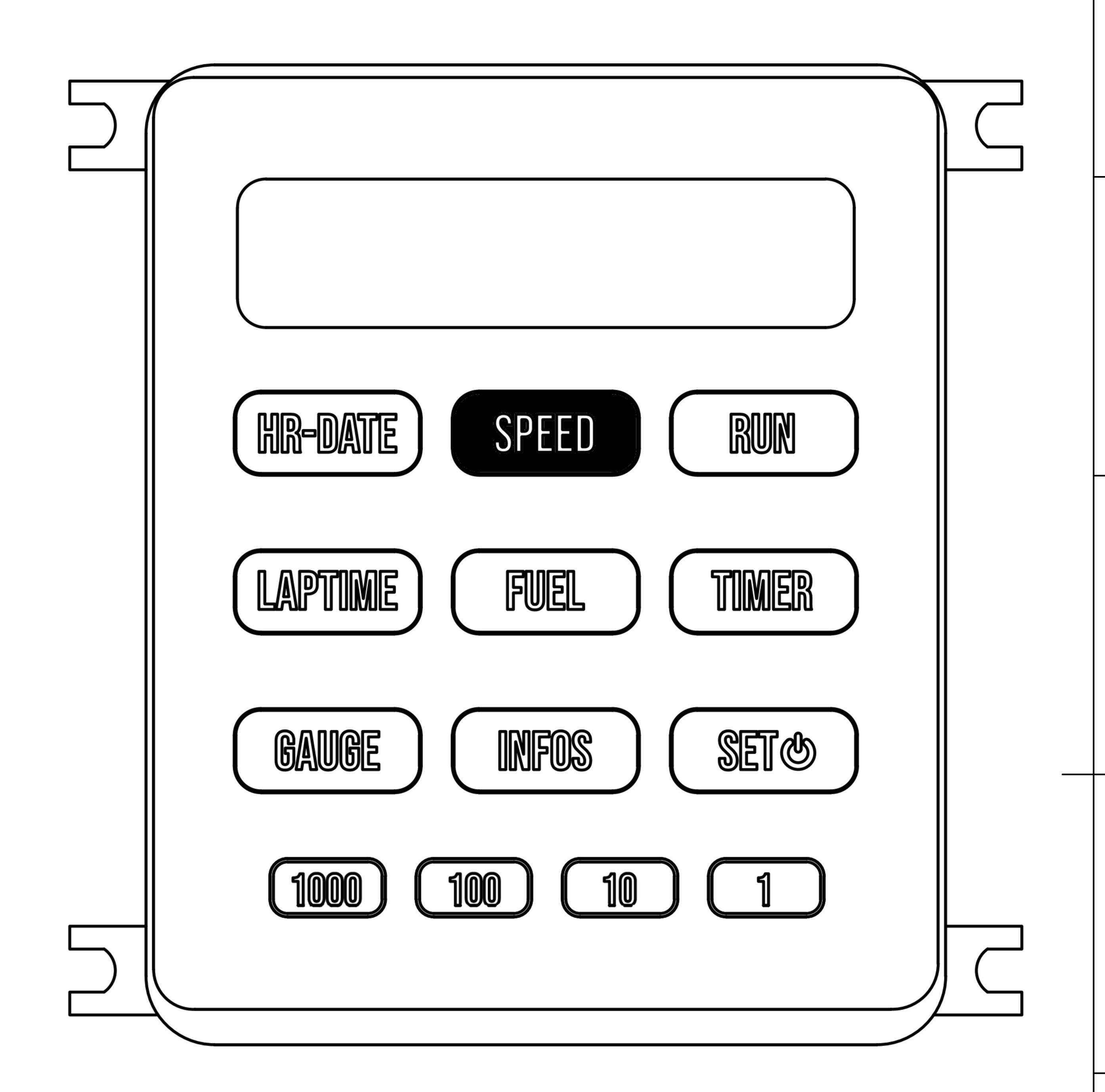


GPS SPEED

Press (SPEED) to display the current GPS speed. The overspeed alarm can be activated using (SEED).

Press once to set the limit speed using the numerical buttons, and press again to activate the alarm ('ON' will get displayed). Repeat the operation to deactivate the alarm.

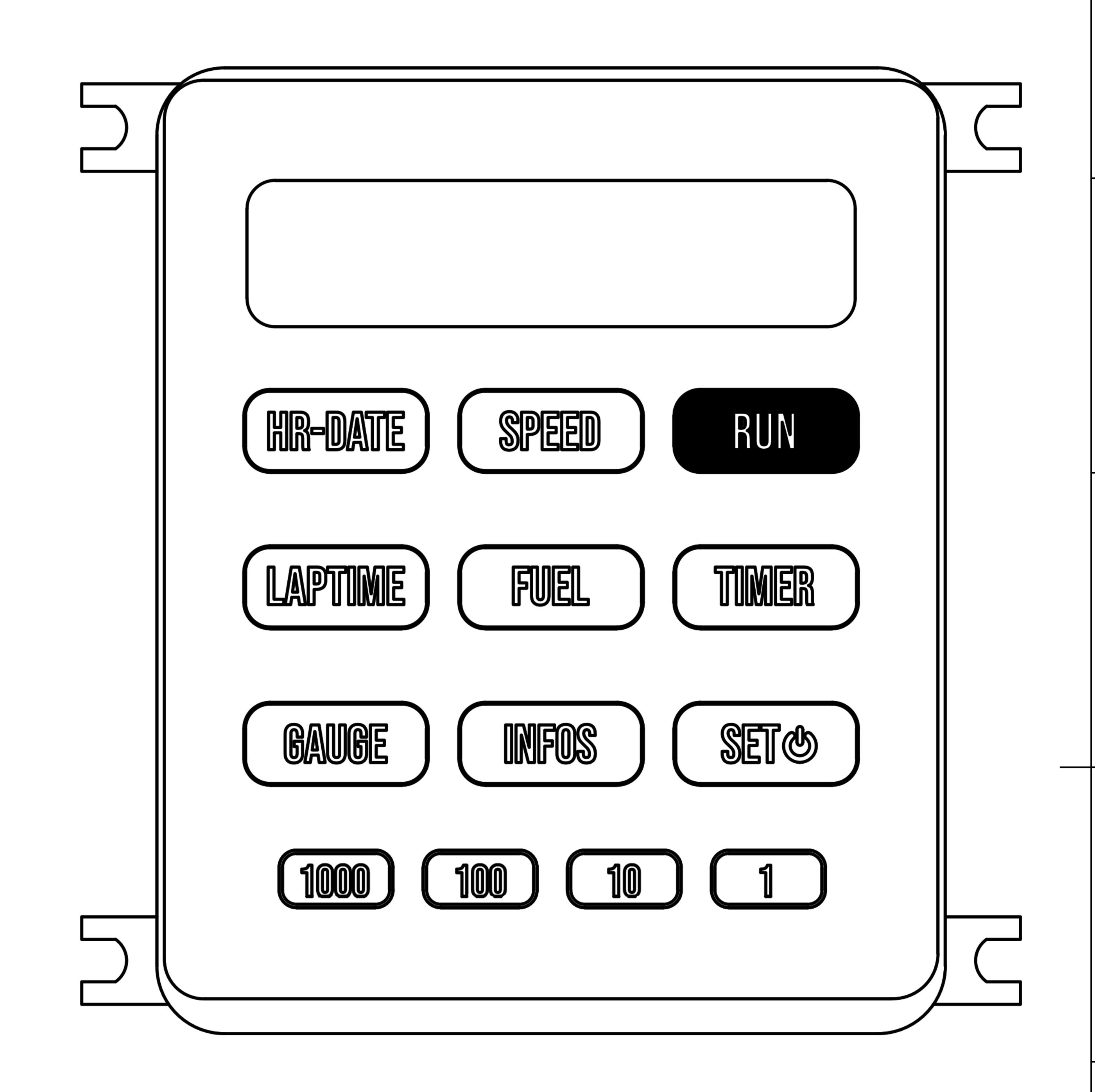
In case of an overspeed, 'LIMIT' will blink on the screen until you slow down. You can ignore the alarm by pressing (STO).

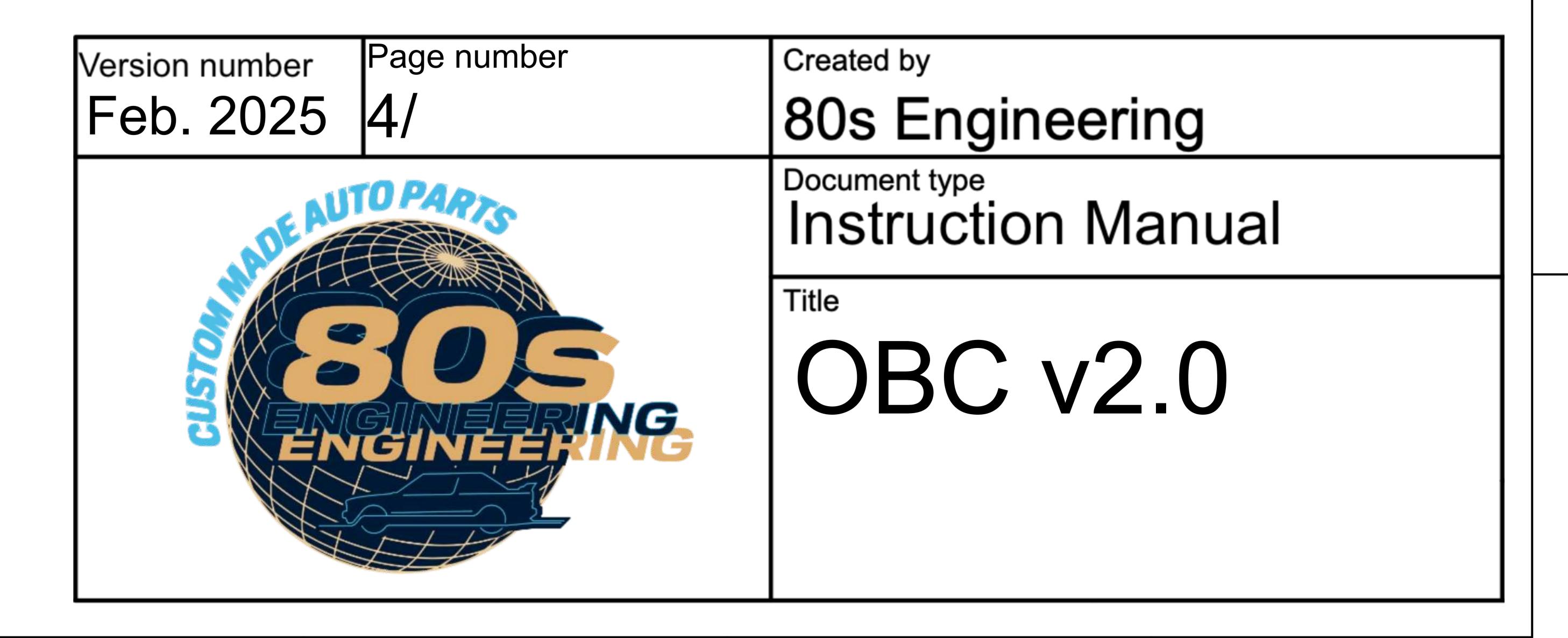


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ACCELEROMETER BASED 0-60 AND 1/4 MILE TIMER

Press (RM) to display the 0-62 timer. 'READY' will get 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 (RM) again to display the 1/4 mile timer, which operates the same.

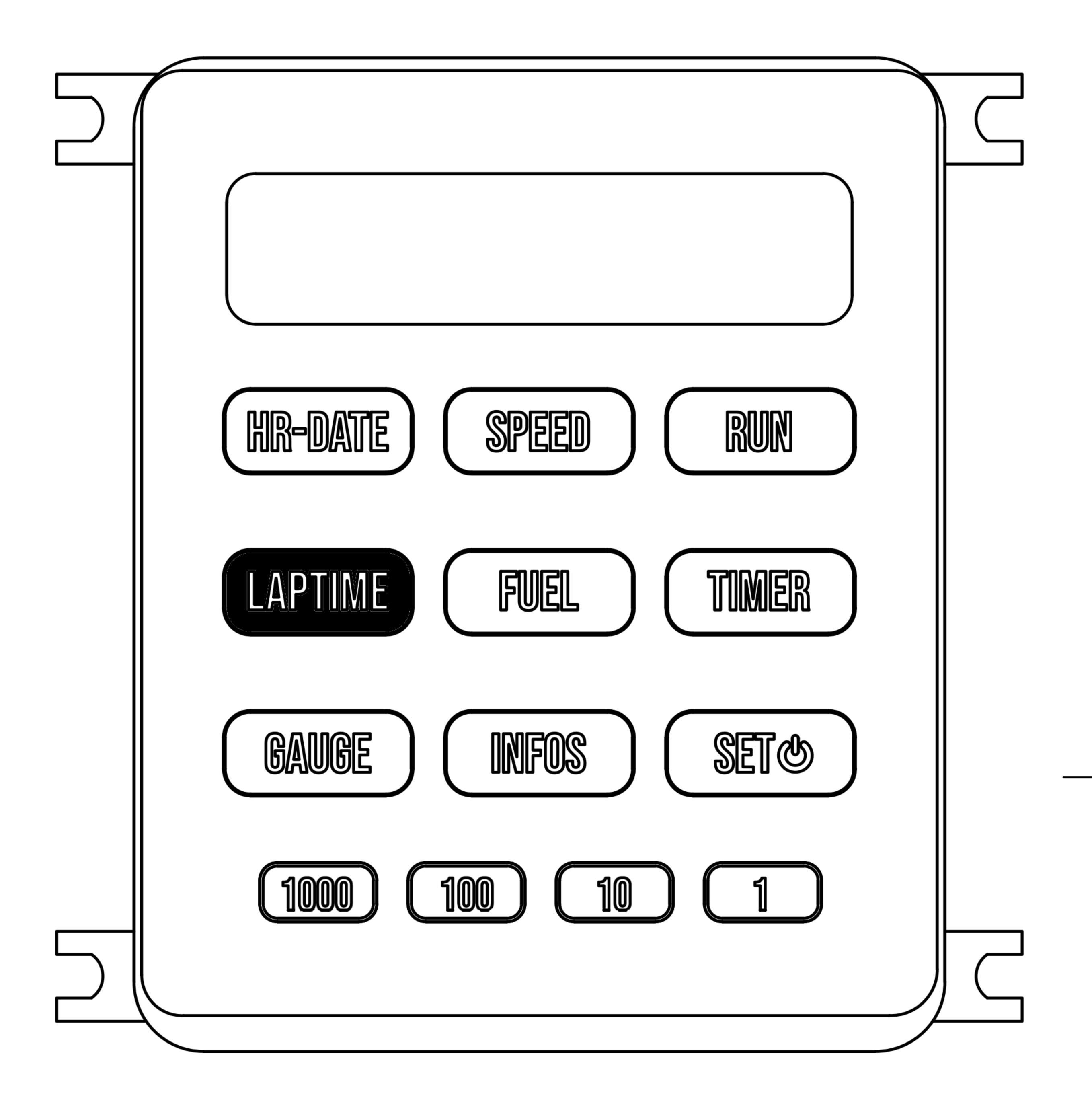


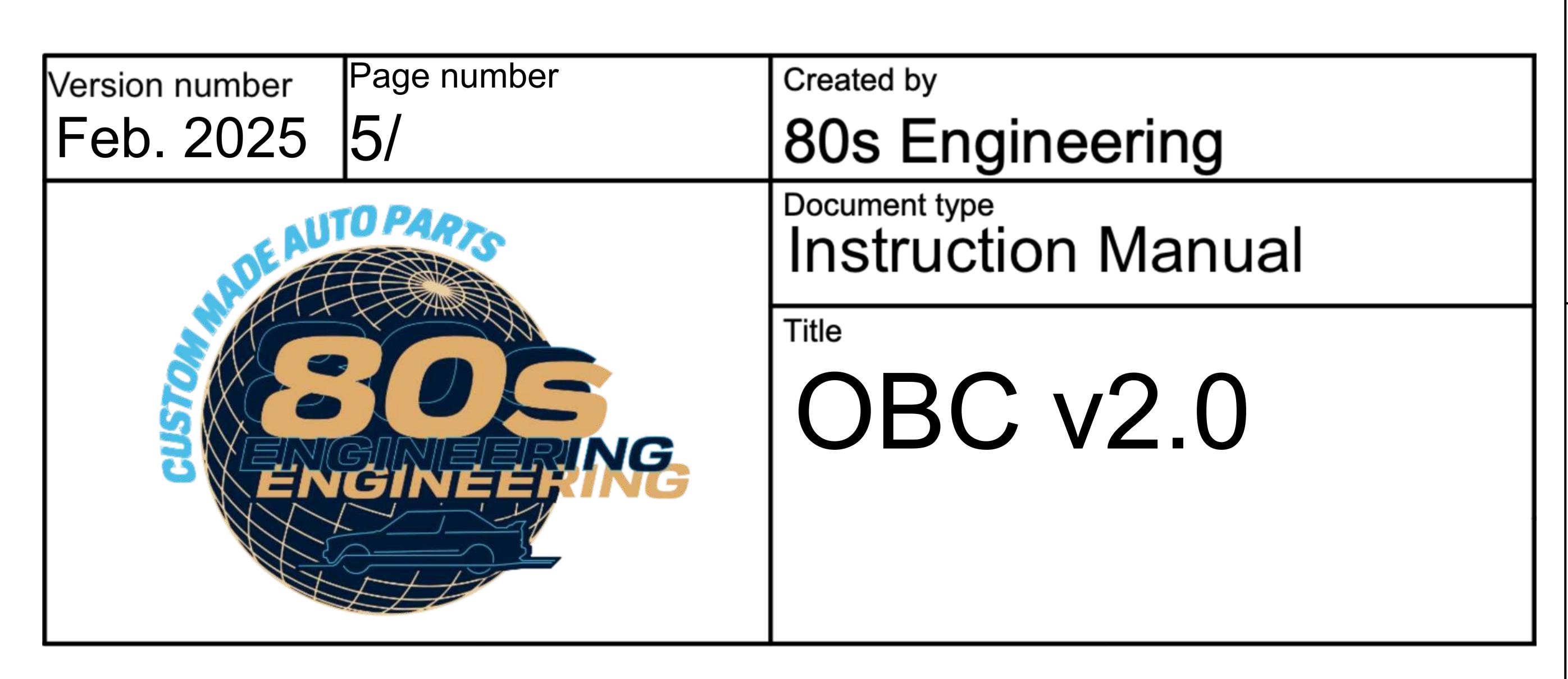


LAP TIMER

Press (LATIME) to display the lap timer. Press (Site) 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 to end the lap timing.
Your fastest lap and total number
of laps will get displayed,



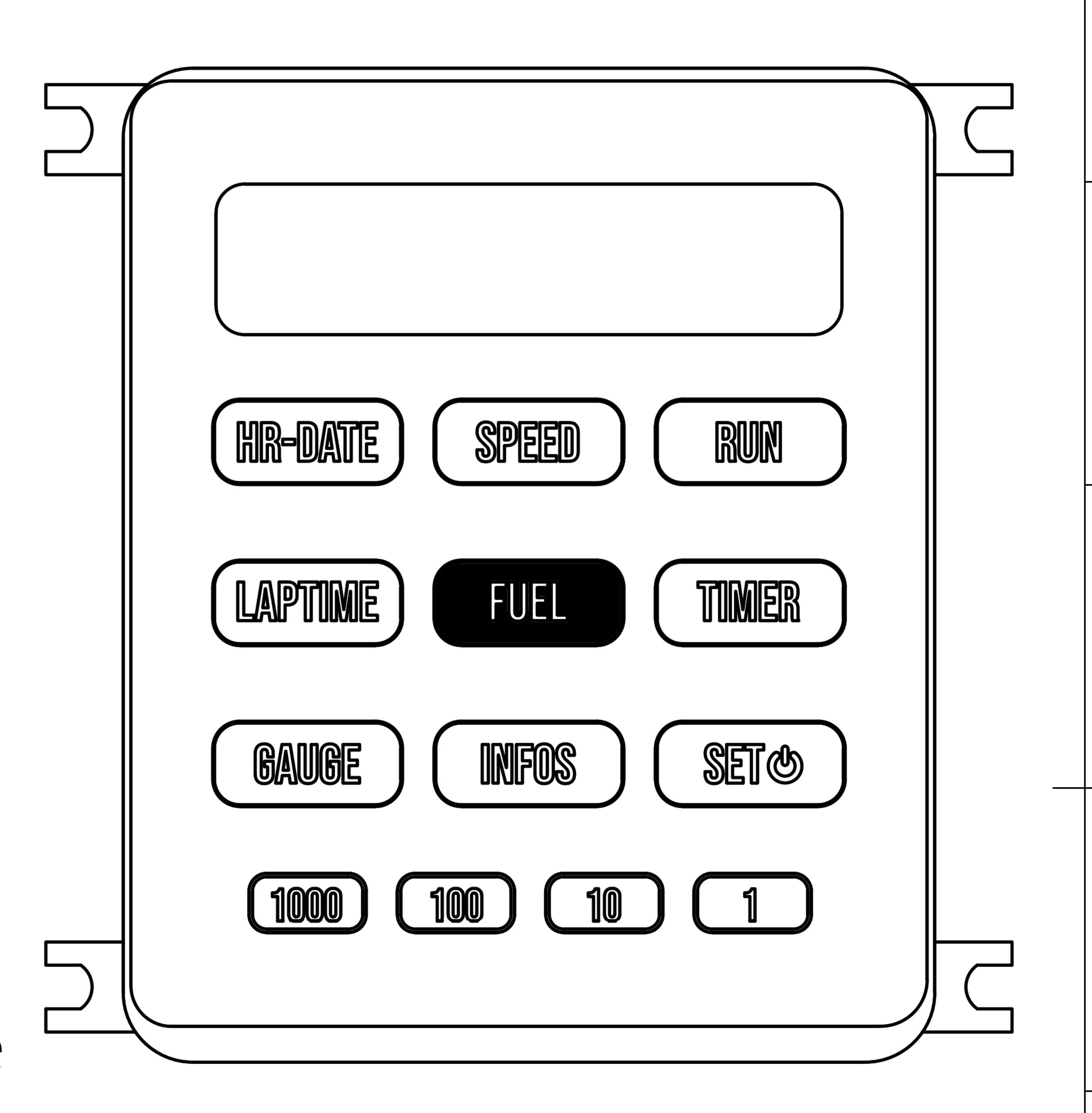


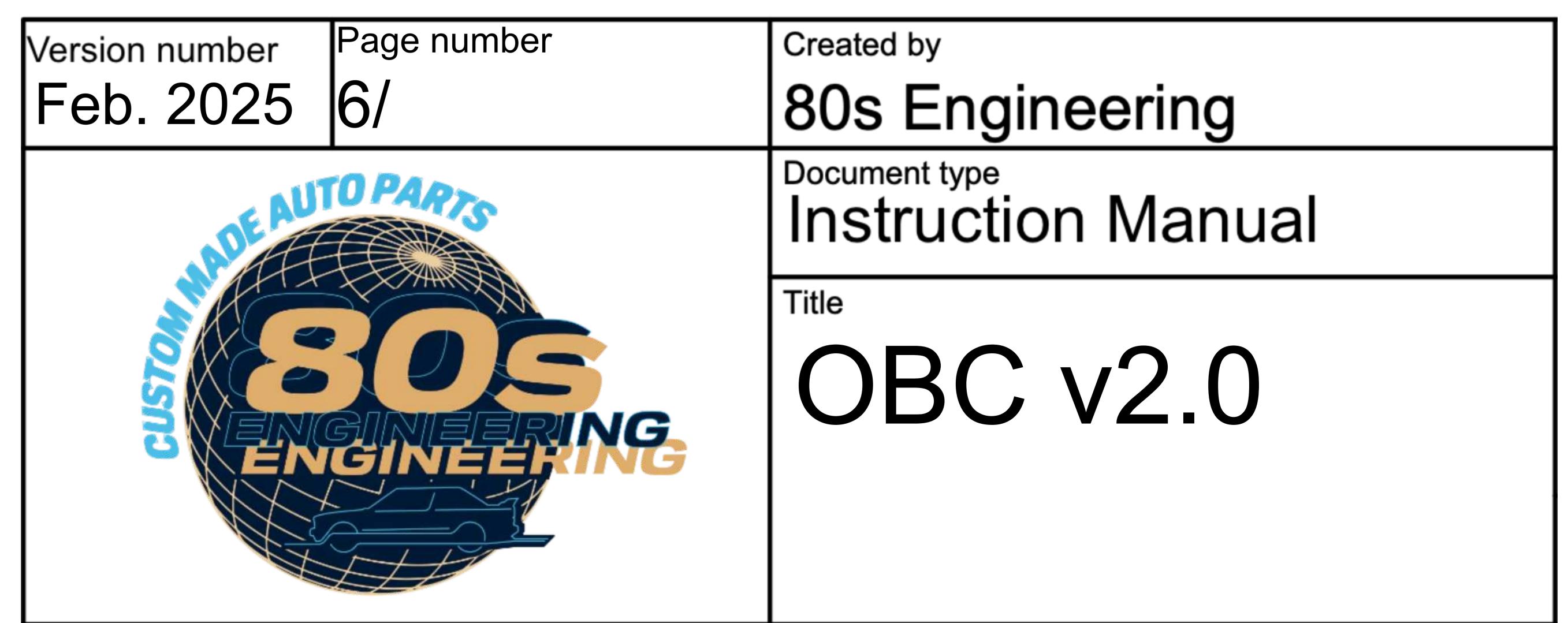
MPG, RANGE, REMAINING FUEL AND TRIP ODOMETER

Successively press (PUL) to display your hourly fuel consumption, mileage, range, remaining fuel (if _compatible), and trip odometer.

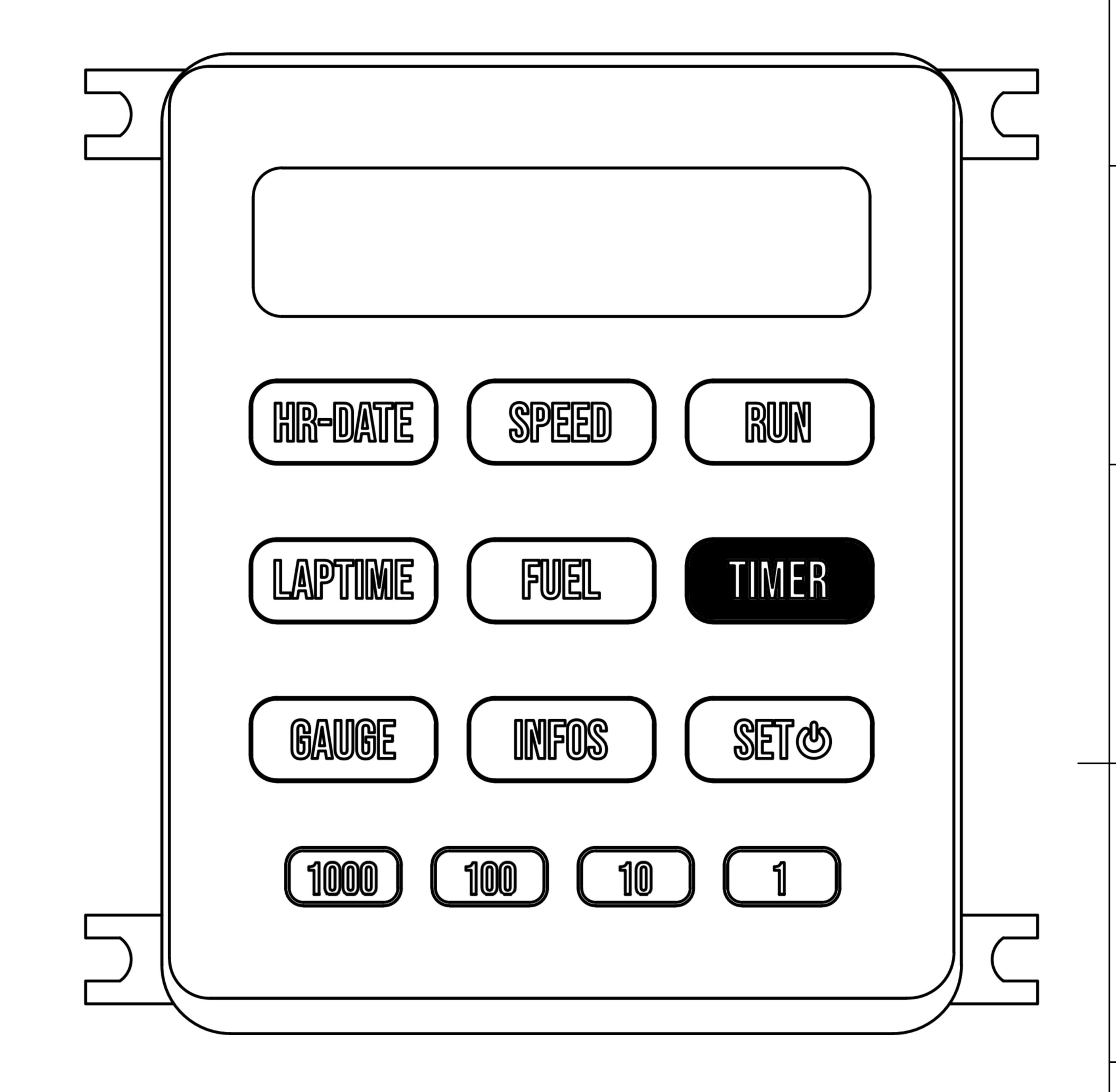
Those values are getting computed from variables (injector size, engine type, etc..) that need to be set up. Please refer to page 12.

Trip odometer can get set/reseted using (SIO).





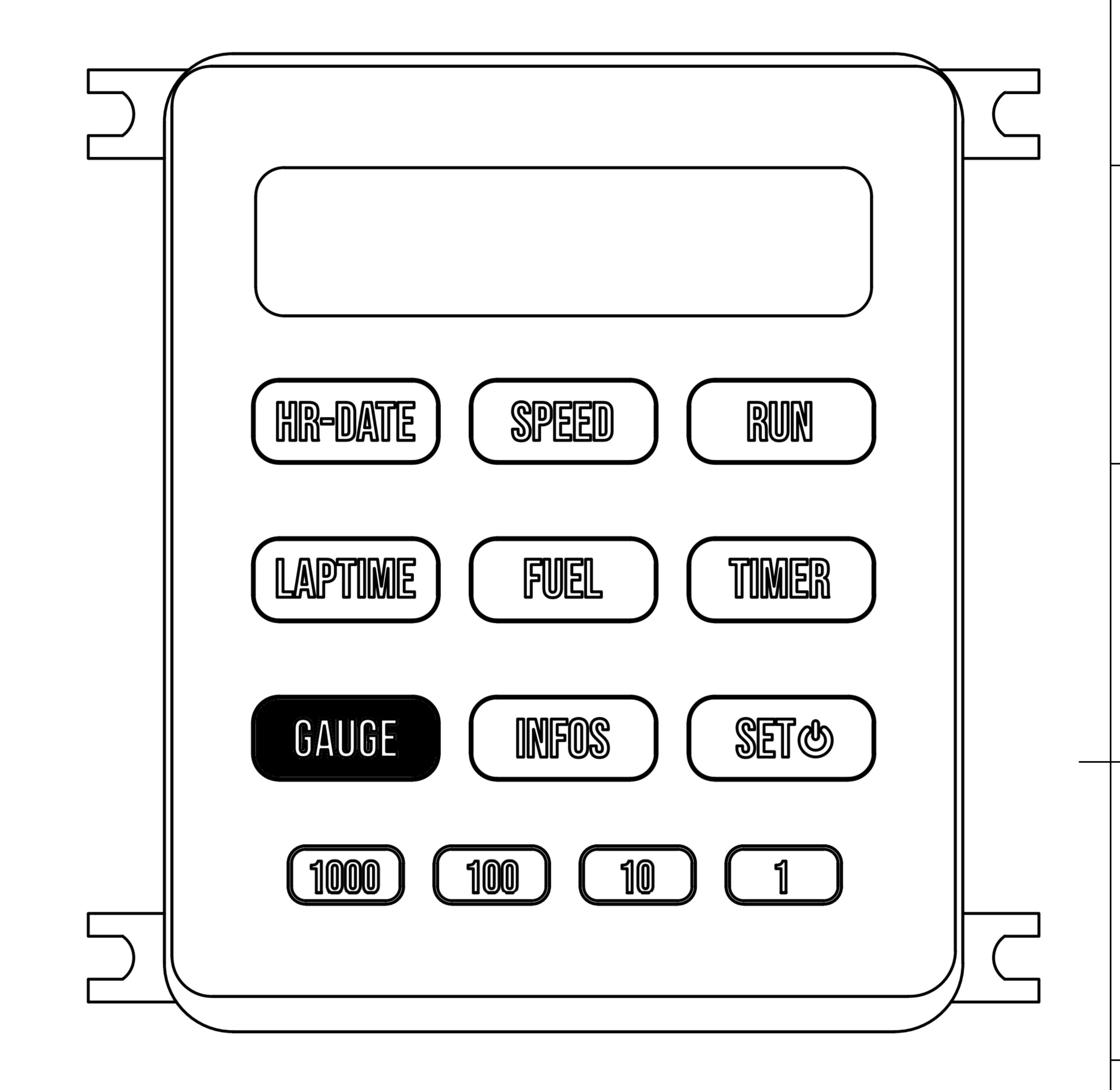
Press to display the stopwatch. It can be started and stopped with . Once stopped, press to reset. The stopwatch features a split function allowing for timing of a second interval, which can be activated by pressing when the stopwatch is running.



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GAUGES

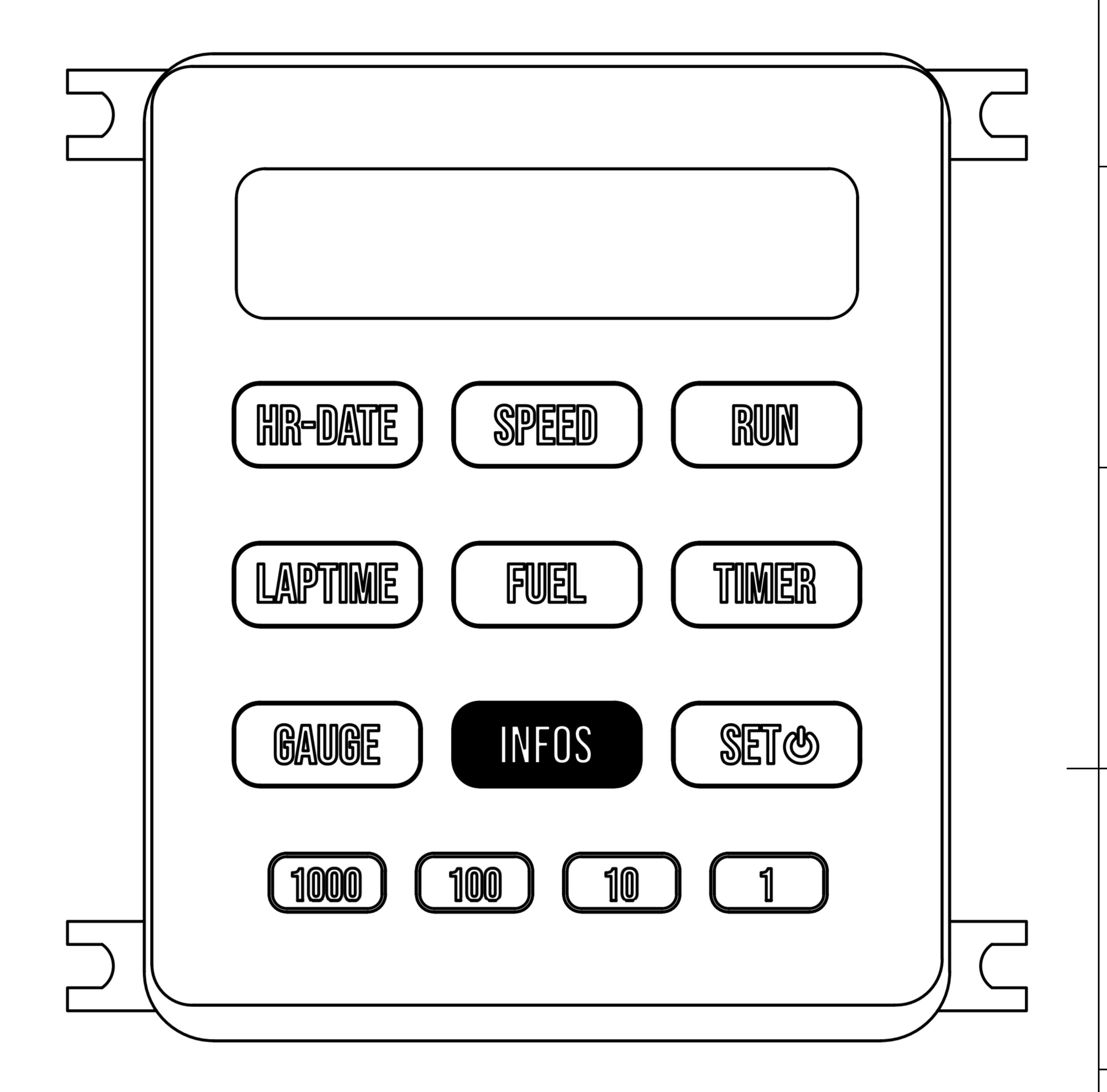
Successively press (MCC) to display the oil pressure, oil temperature (if equipped), and voltage. An overheat alarm can be activated by pressing (MCC), which will display an alert message if your temperature exceeds a pre-selected value, which can be ignored by pressing (MCC).

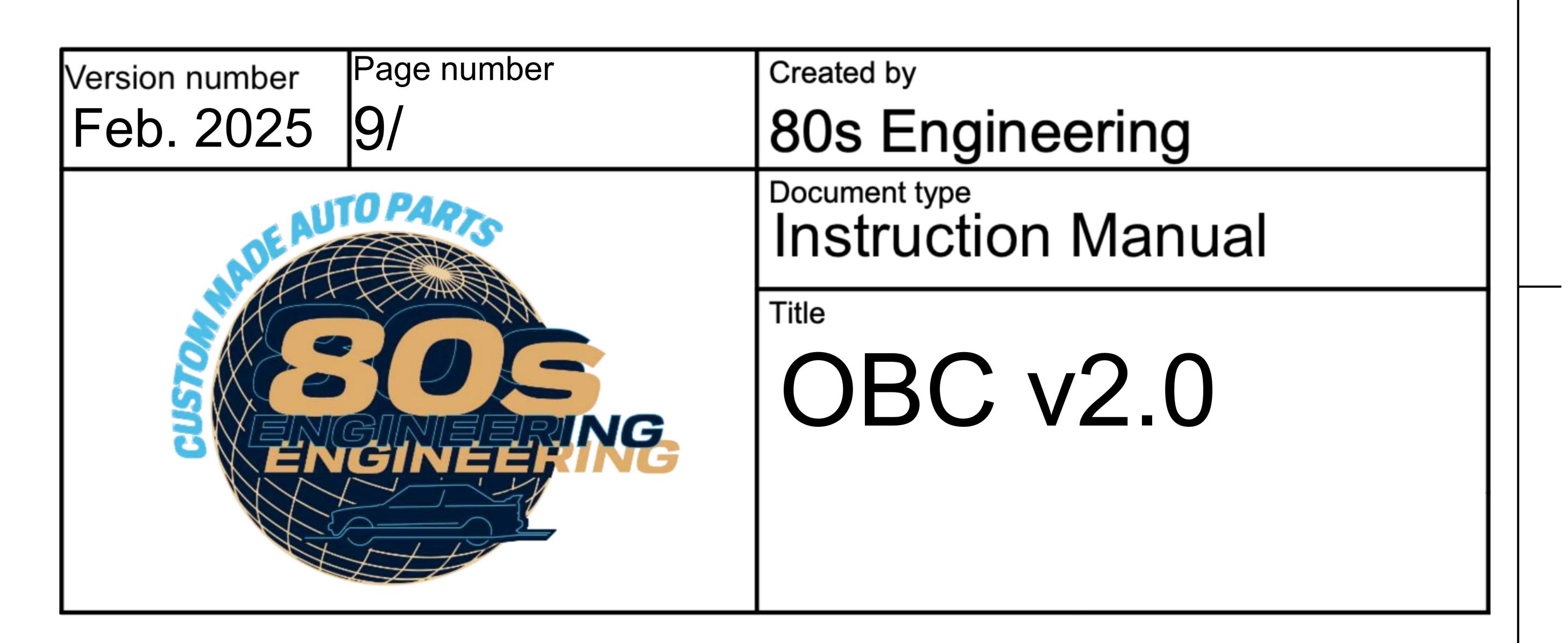


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INFORMATIONS

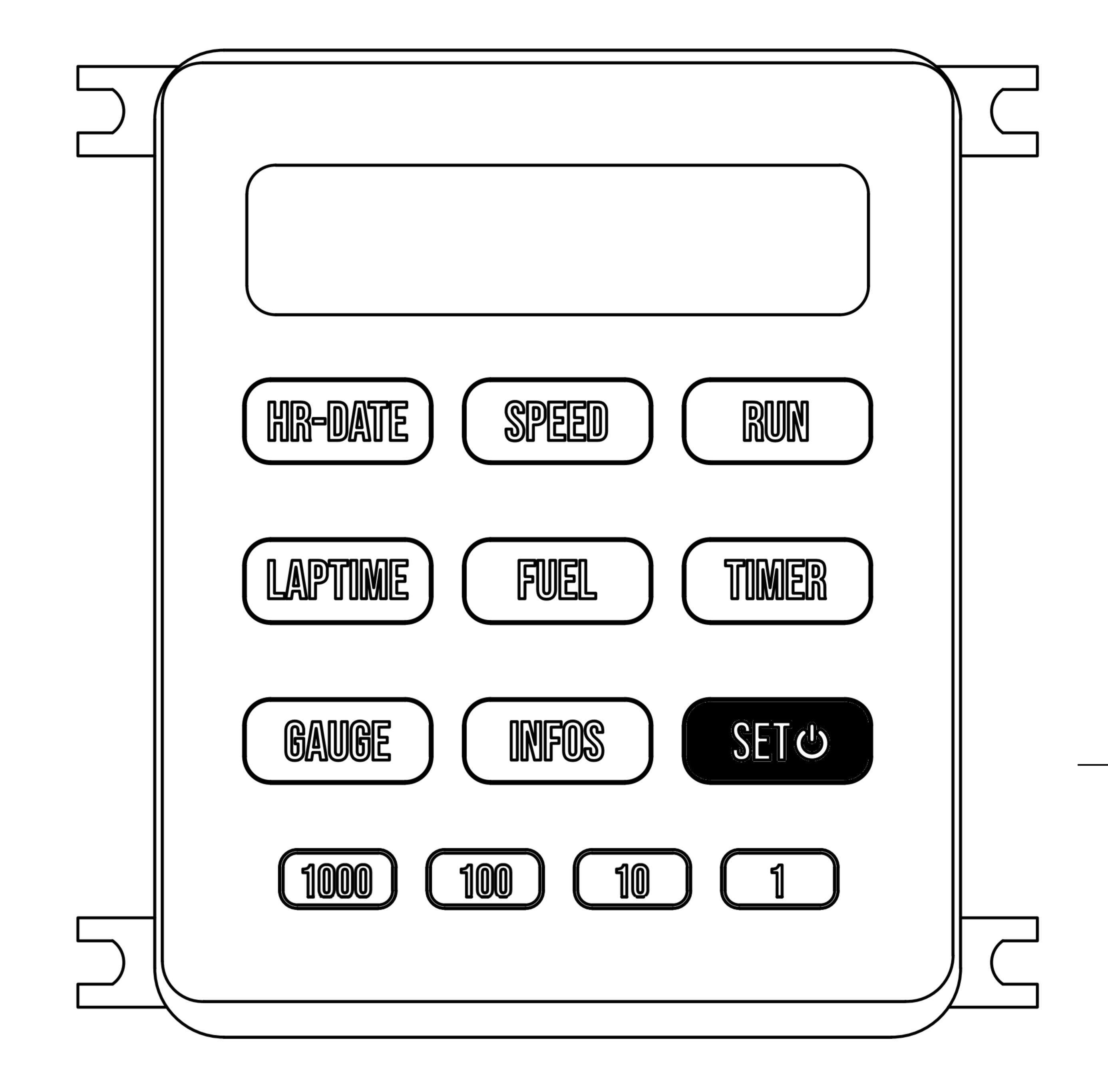
Successively press (MPS) to display outdoor temperature (if equipped), accelerometer, current heading, and altimetere.

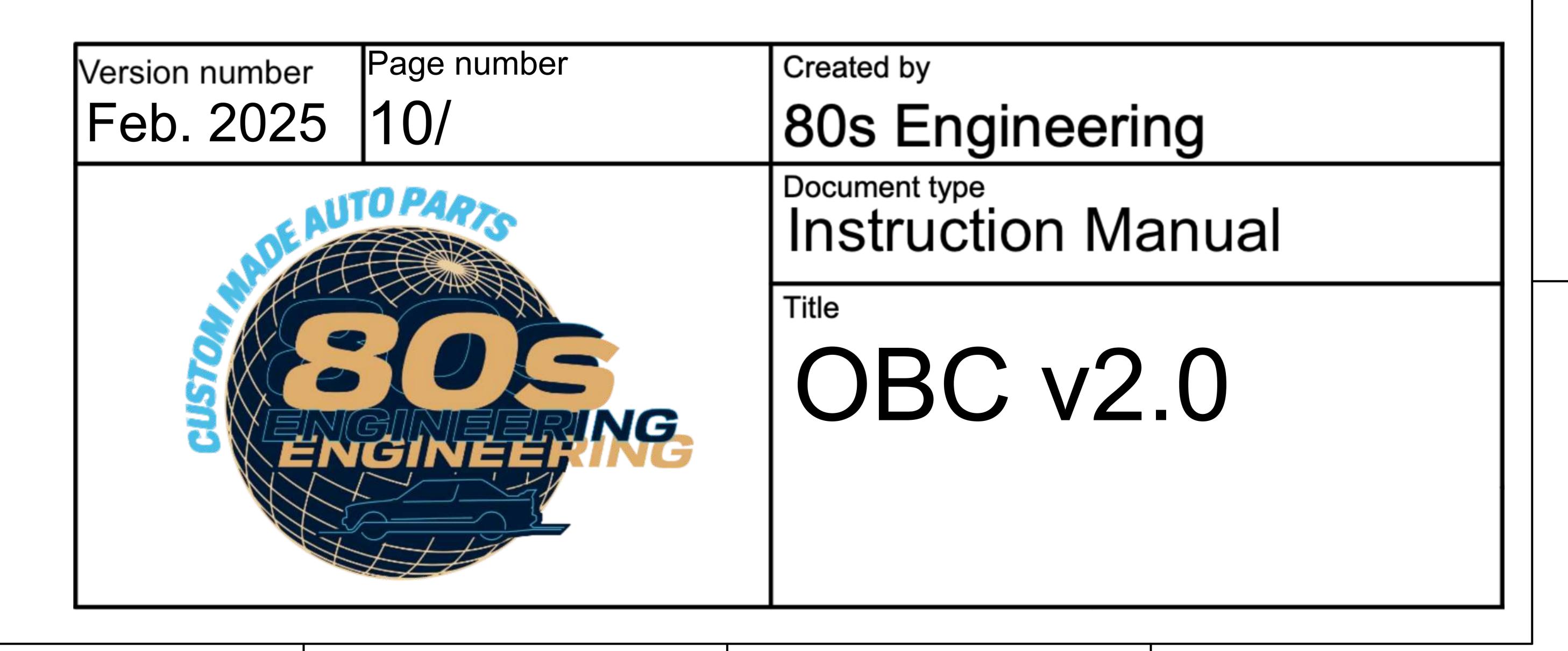




SET/RESET

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



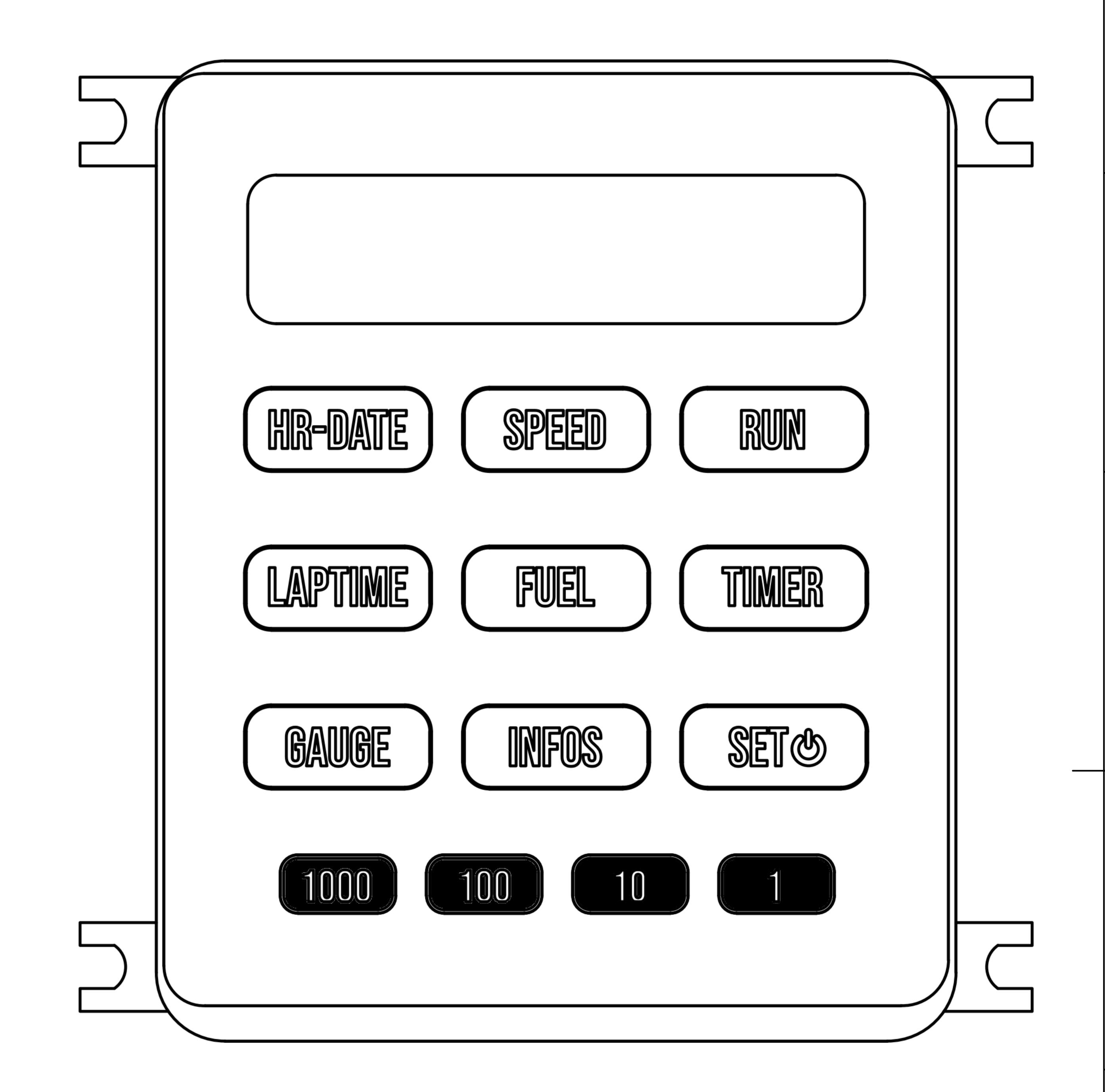


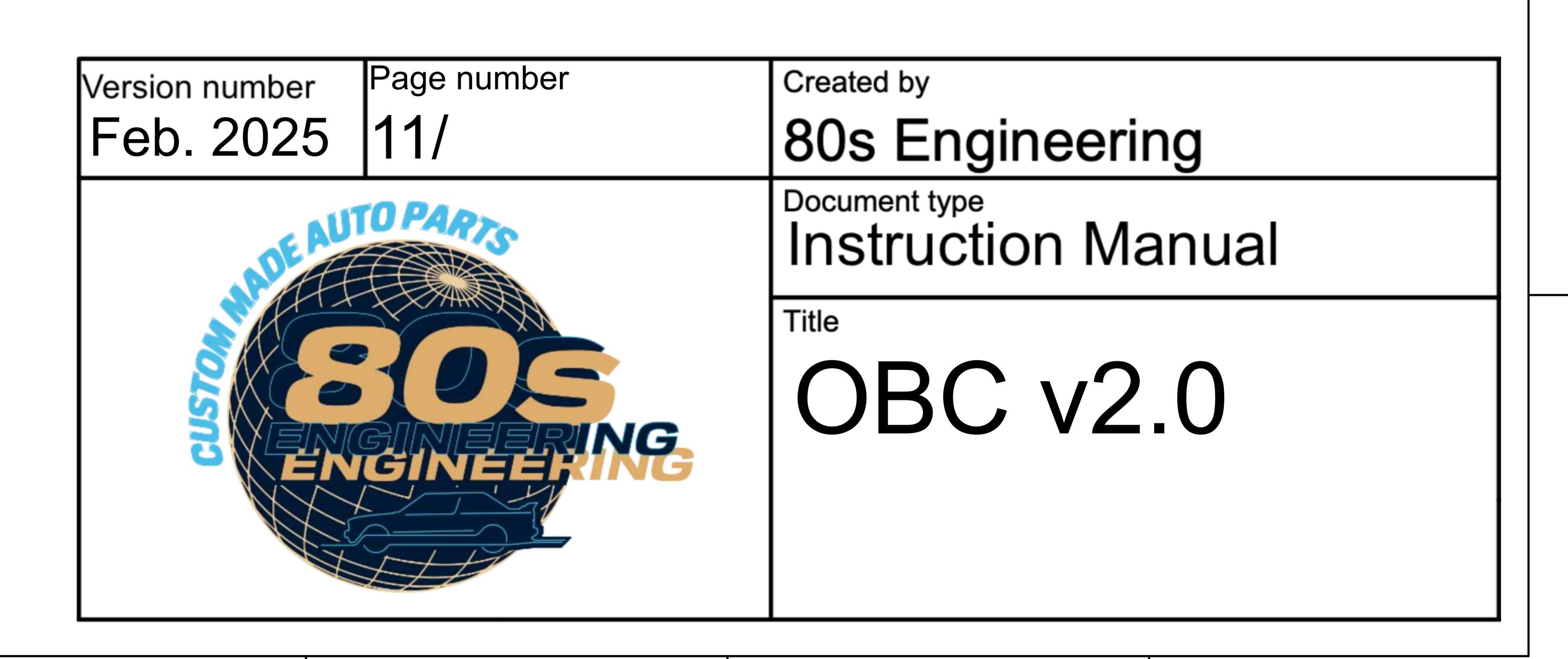
As mentioned earlier, some functions may take numerical values. These values can be entered using the digit buttons.

Example:

Press 100 + 10 + 11 + 11 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.

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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 WiFi hotspot in order 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.

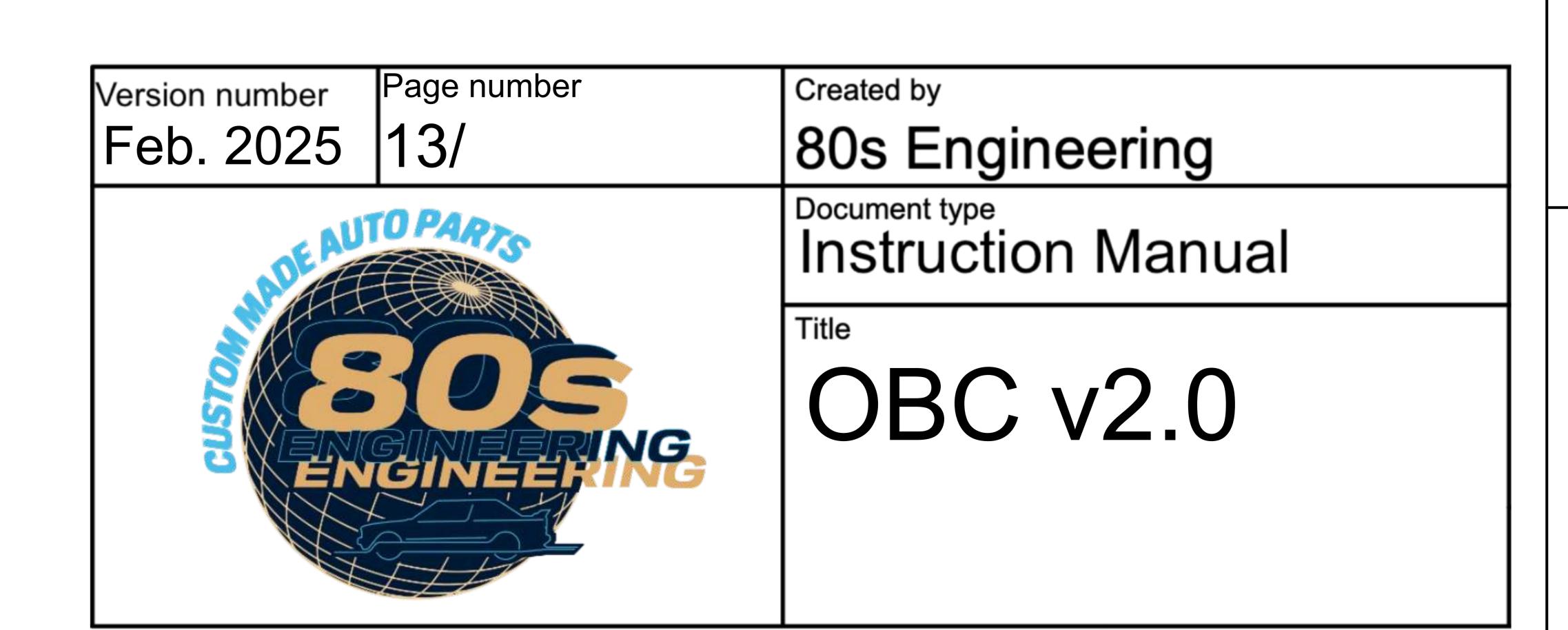
Using either your phone or your computer, please look up for the "E30 OBC" WiFI hotspot. Once connected to it, you will get redirected to obc-80s.engineering.

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)

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 satellite signal. It will get 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 issue?:

Please reach me at contact@80s.engineering, or on instagram @80s.engineering for a faster answer.

Thanks for your support and bonne route!

