USER MANUAL

SHIFTING PROFILE

PROCEDURES

CONNECTION OF WIRELESS GROUPS

AND EPS GROUPS TO COMPATIBLE CYCLE COMPUTERS

SHIFTING PROFILE

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2 - SHIFTING PROFILE 2.0 SHIFTING SENSOR

It is possible to connect the Wireless groupsets and Super Record EPS 12S to a compatible cyclocomputer as “shifting” sensor in the new ANT+ shifting profile 2.0 mode
This allows you to view the information of the drivetrain groupset (battery state of charge, number of sprockets etc.) and use the control Mode buttons to perform actions which can be customised in the cyclocomputer.

COMPATIBLE GROUPSETS:

WIRELESS GROUPSETS		SUPER RECORD EPS 12s
Firmware requirements:		Firmware requirements:
12s	rear derailleur (version 1.0.15 and up)	Interface Unit: 0.2.34
	front derailleur (version 1.0.13 and up)	Wireless module: 1.7.32
	control lever (version 1.0.4 and up)	
13s	any firmware	

COMPATIBLE CYCLOCOMPUTERS:

CYCLOCOMPUTERS	GARMIN EDGE
All cyclocomputers compatible with ANT+ Shifting Profile 2.0 protocol	Garmin Edge devices: x40 and x50
	Firmware requirements:
	Serie x40 (afor example 540, 840, 1040) - 24.19 and up Serie x50 (afor example 550, 850, 1050)
	model 1050 - 10.19 and up

Important!
The Shifting Profile 1.0 and 2.0 modes are not compatible and cannot be used simultaneously in the same device, in other words the cyclocomputer cannot connect to the groupset drivetrain as “Shifting” Sensor in Shifting profile 2.0 mode and as “Edge Remote Control”.

2.1 - GENERAL INSTRUCTIONS

1) Search for a new "shifting" sensor from the sensors menu on the cyclocomputer. Ensure you do not already have the shifting sensor to which you wish to connect with the new mode in the list: if so, remove it from the list of sensors

2) If the sensor does not appear, press one of the control Mode buttons

3) Add the sensor

4) In the sensor details menu, you will see four new menus:
"ANT+1 Function Setup"
"ANT+2 Function Setup"
"ANT+3 Function Setup"
"ANT+4 Function Setup"
- ANT+ 1 corresponds to the left control Mode button
- ANT+ 2 corresponds to the right Mode button
- ANT+ 3 corresponds to the Smart button on the left control and any satellite button on the left control.
- ANT+ 4 corresponds to the Smart button on the right-hand control and any satellite button on the right-hand control.

5) Each channel (ANT+1, ANT+2, ANT+3, ANT+4) can be assigned an action to the following events:
short press (single press of the Mode button)
double press (pressing the Mode button twice rapidly, with wireless groupsets only)
long press (pressing and holding the Mode button for at least 1.5 sec)

! **N.B:** The short, double and long press events are available if managed by the cyclocomputer manufacturer's firmware, as are the associated actions.

In the event of malfunctions:

a) Delete all shifting sensors from the cyclocomputer and restart the device

b) Disconnect and reconnect the Super Record Wireless rear derailleur battery

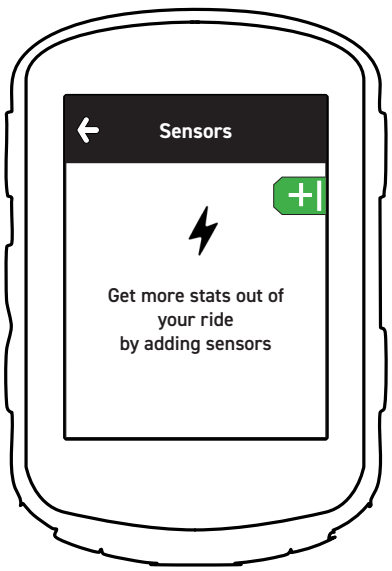
! **N.B:** the shifting sensor allows the position of the chain on the chainring and sprocket to be displayed, as well as the state of charge of the batteries. Additionally, with the groupset connected as shifting sensor, it is possible to receive flat battery notifications from the cyclocomputer.

It is possible to customise the shifting sensor, providing the number of teeth of the front chainrings and rear sprockets:

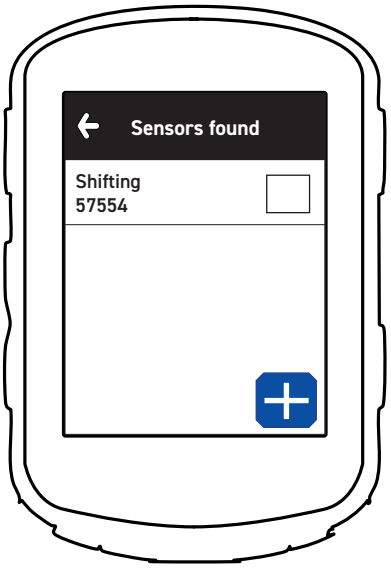
CRANKSET	SPROCKET CASSETTES
45-29	10-25 (10,11,12,13,14,15,16,17,19,21,23,25)
48-32	10-27 (10,11,12,13,14,15,16,17,19,21,24,27)
50-34	10-29 (10,11,12,13,14,15,16,18,20,23,26,29)
52-36	11-32 (11,12,13,14,15,16,17,19,22,25,28,32)
53-39	

2.2 - INSTRUCTIONS FOR GARMIN EDGE

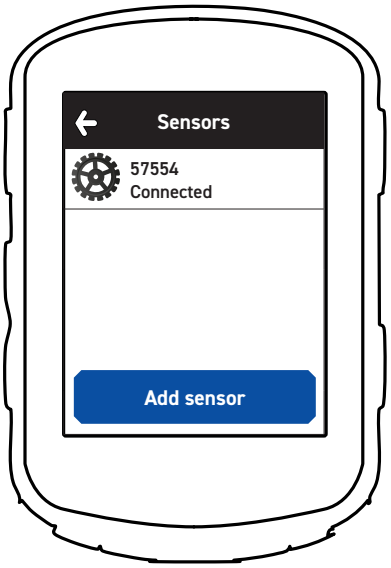
• In the sensors menu, press the + button to add a new sensor and select “Shifting” sensor from the list.



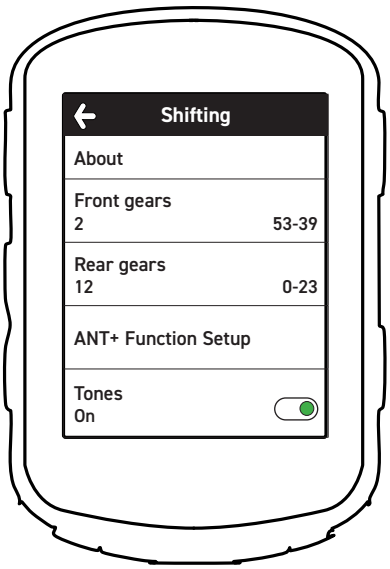
• Check that the groupset components are active (if not, move the bike) and select the “shifting” sensor which appears onscreen, then select Add.
If the sensor does not appear onscreen, press one of the control Mode buttons.

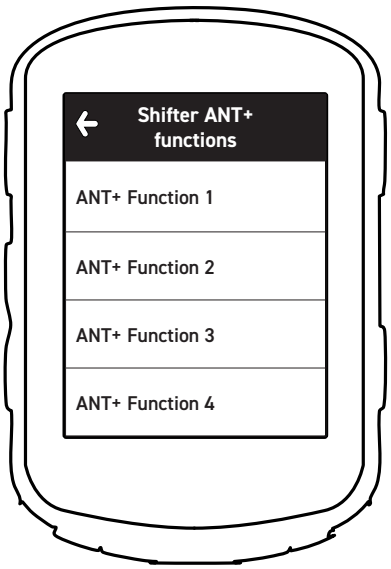


• When the sensor is connected, tap on “Sensor Details”



• In the “Sensor Details” menu, press the left and right control Mode buttons once at a time to display the “ANT+ Function Setup” option.

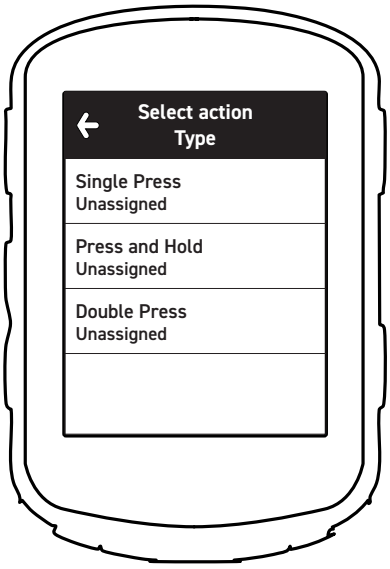


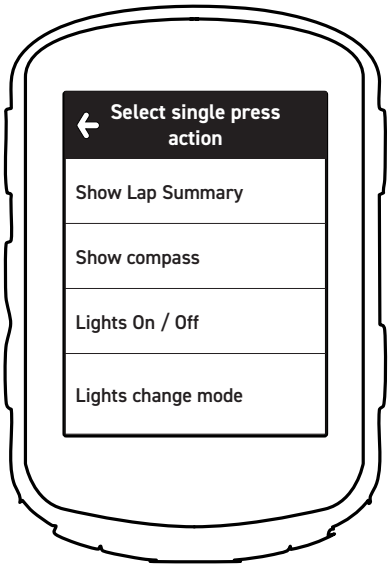


• To customise the behaviour of the various buttons, select the following on the screen:
- ANT+ function 1 for the left MODE
- ANT+ function 2 for the right MODE
- ANT+ function 3 for the left SMART and left satellite button
- ANT+ function 4 for the right SMART and right satellite button

• It is possible to assign a specific selectable function to the following events

• The actions which can be selected depend on the firmware of the Edge device: you can assign, for example, the next or previous page event in order to scroll between the data pages; you can associate timer start and stop, and lap start events, manage the ANT+ lights, or you can modify the flashing mode of the ANT+ rear light, as well as displaying the summary, map, or compass, or sounding the horn (Garmin Edge 1050).





Note:
the “Double Press” function is not available for Super Record EPS 12s groupset but only for Wireless groupsets.

3 - SHIFTING PROFILE 1.0 SHIFTING SENSOR AND EDGE REMOTE CONTROL EMULATION

It is possible to connect the "shifting" sensor to view the state of the batteries and the sprocket number.
For Garmin Edge devices, it is possible to emulate the operation of the Edge remote control by adding the rear derailleur as an "Edge Remote Control" sensor.

COMPATIBLE GROUPSETS:

WIRELESS GROUPSETS	EPS 11s / 12s GROUPSETS
All Wireless 12s/13s groupsets	Super Record EPS 12s
	Super Record EPS 11s and Record EPS 11s (versions with V3 interface only)

COMPATIBLE CYCLOCOMPUTERS:

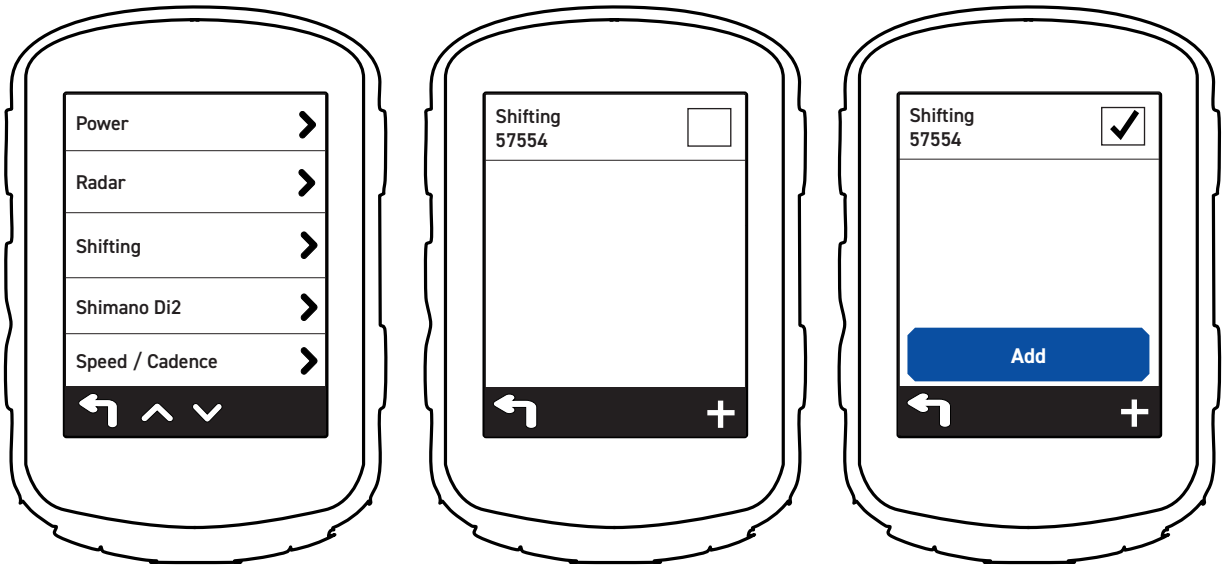
FOR SHIFTING SENSOR CONFIGURATION	FOR "EDGE REMOTE CONTROL" EMULATION:
All cyclocomputers compatible with ANT+ Shifting Profile 1.0 protocol	Garmin Edge Series x30 (e.g. 530, 830, 1030)

3.1 - SHIFTING SENSOR CONFIGURATION

It is also possible to connect the rear derailleur as Shifting Sensor to view the state of the batteries and the position of the chain on the sprocket cassette and on the front chainring:

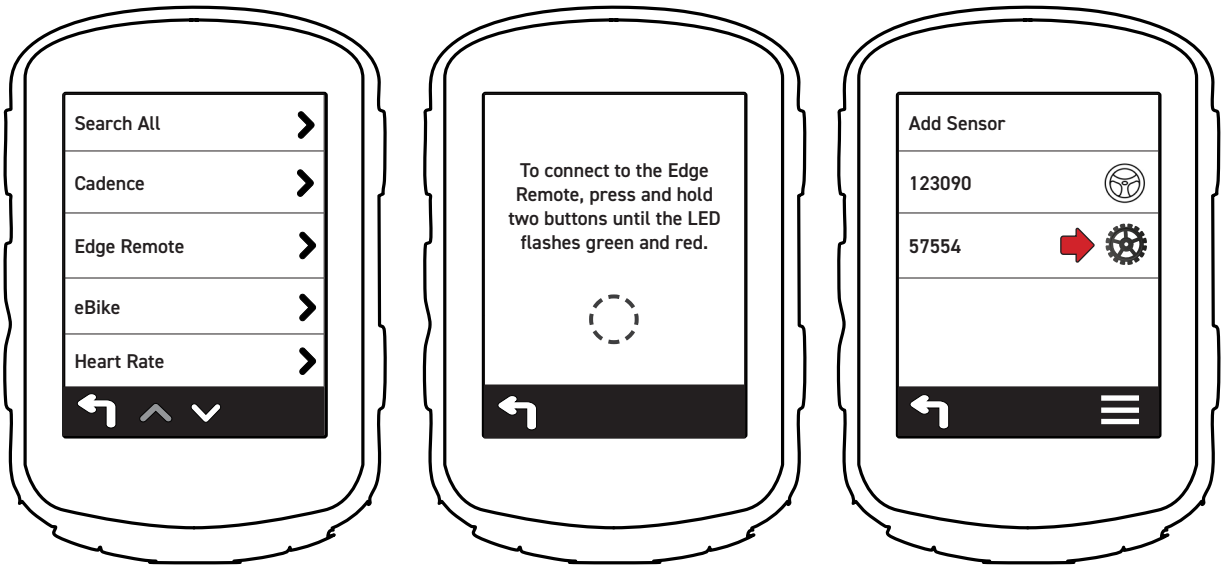
1) search for a new "shifting" sensor on the device, from the sensors menu
2) press the Mode button of one of the 2 controls if it is not displayed
3) add the sensor

The shifting sensor allows the position of the chain on the front chainring and on the sprocket cassette to be displayed, as well as displaying the state of the battery of the components of the Wireless groupsets or of the Power Unit for the EPS groupsets.
Additionally, with the groupset connected as shifting sensor, it is possible to receive flat battery notifications from the cyclocomputer.



3.2 – EDGE REMOTE CONTROL SENSOR CONFIGURATION (for Garmin cyclocomputers only)

1) Search for a new “Edge Remote Control” sensor in the sensors menu on the Edge device. Ensure there are no other “Edge Remote Control” sensors connected or active and remove any other Remote Control sensors listed.



2) Press the right and left Mode buttons on the controls repeatedly and alternately (at least 5 times within 1.5 seconds) until the connection is established. After a few seconds, the sensor will be visible.
With wireless rear derailleur, the LED will flash white.
Only for 13s Wireless groupsets: if the rear derailleur firmware is updated to at least version 2.2.13, as an alternative to the above procedure, you can simply press the Mode button on the right-hand control (or left-hand control) 5 times within 1.5 seconds until the connection is established.

Important!
Do not carry out the instructions given on the Edge cyclocomputer as they refer specifically to the Garmin “Edge Remote Control” device.

• For groupsets wireless, pressing the left and right Mode buttons changes page (up-down or left-right depending on the model).

• For EPS groupsets, the left Mode button records the lap time, while the right Mode button scrolls through the data pages of the cyclocomputer.
The “Edge Remote Control” sensor cannot be connected to two Edge devices at the same time.
If it is necessary to disconnect the device from an Edge device, delete the ANT+ ID from the list of sensors of the unused cyclocomputer by pressing the Mode buttons simultaneously at least five times.