



RADIO CONTROL

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5.1. RADIO CONTROL – GENERAL INFORMATION

Preliminary condition



NOTE

This chapter covers only the functions of the transmitter controls; for more information about the transmitter, the receiver, the battery charger and the batteries, please see the relevant manuals.



Transmitter Manual



NOTE

For all information, refer to the manual provided by the manufacturer. The manual can be consulted, in PDF format, in the 'Attachments' folder in the attached digital documentation.



Receiver Manual



NOTE

For all information, refer to the manual provided by the manufacturer. The manual can be consulted, in PDF format in the 'Attachments' folder in the attached digital documentation.



Battery Charger and Battery Manual



NOTE

For all information, refer to the manual provided by the manufacturer. The manual can be consulted, in PDF format, in the 'Attachments' folder in the attached digital documentation.



Safety precautions



WARNING

The radio control shall only be operated by properly trained personnel.

Radio control frequency



WARNING

The 2.4 GHz frequency of the radio control ensures work without interruptions even in particularly congested areas. Manual management of the frequencies is not necessary. 2.4 GHz technology is a universal frequency band and therefore can be used all around the world.

Radio control range



NOTE

The range of the radio control is about 100 meters.




ATTENTION

The antenna should be placed so that it has a clear “view” of the working area.


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Precautions for use

 **ATTENTION**
Significant metallic masses could considerably reduce the action range of the radio control.


Loss of radio communication

 **WARNING**
If radio communication is lost, the machine emergency shutdown is activated; the Diesel engine is switched off and the vehicle stops.

The loss or lack of radio communication is reported on the transmitter display as shown below.



Safety standards

 **WARNING**
For any procedure that implies movement of the vehicle, ensure the manoeuvre area is free of people and/or property.

 **WARNING**
Keep out of the action range of the vehicle.



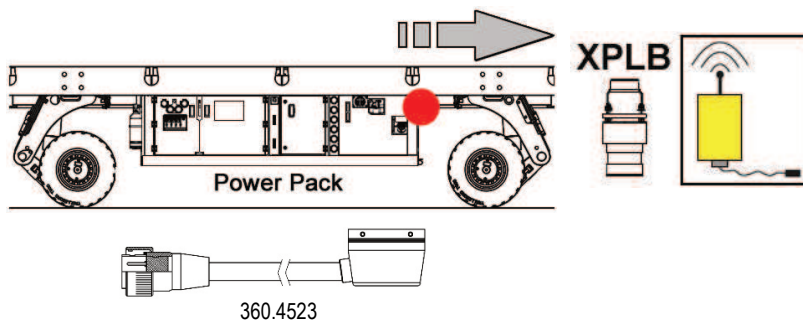
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Continued "Radio Control – General Information" →

Operating the radio control
Connecting the receiver

To operate the radio control:

- 1) Use the [360.4523] cable to connect the receiver to the [XPLB] connector.

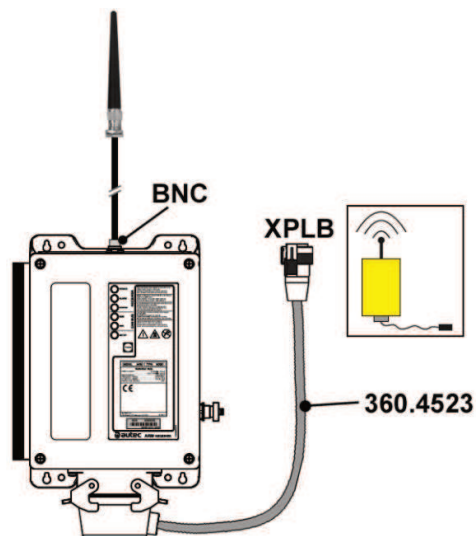


- 2) Connect the antenna to the **BNC** connector of the receiver.



ATTENTION

The antenna must have a clear "view" of the working area.



NOTE

When not using the radio control or if it is faulty, disconnect the [360.4523] cable and cover the [XPLB] connector with the [360.4491] cap.



Continued →

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Operating the radio control in emergency mode

If the radio control batteries are flat or not working, if there are radio communication problems between the receiver and the transmitter or if the vehicle is used in special environments, it may be necessary to use the radio control with the emergency cable, [230.0710]. The cable must be connected to the relevant connector located on the transmitter and to the receiver connector.



Battery state of charge

The battery's state of charge is indicated by the red LED.

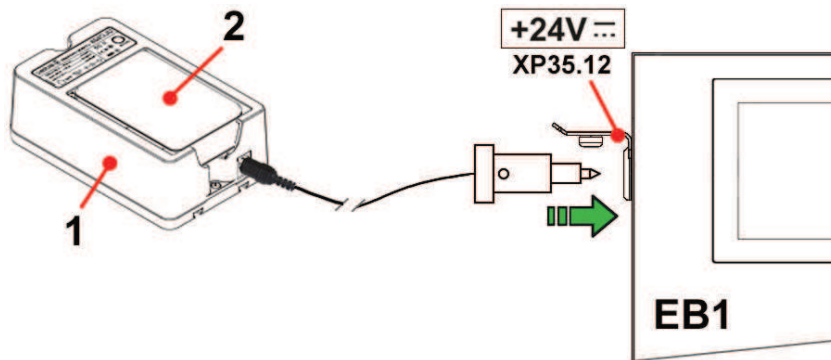


If the LED is flashing and the buzzer is on, it means that the battery is running low. 3.5 minutes after receiving this signal, the transmitter will switch off automatically. Replace the battery with a charged one.

Procedure to recharge batteries

To charge the transmitter battery:

- 1) Connect the battery charger (1) to socket [XP35.12] located on the left side of the [EB1] panel.
- 2) Insert the battery (2) into the battery charger compartment. Do not force the battery in; it should fit in effortlessly if inserted with the plate facing the compartment.
At this point, charging takes place automatically and the actual operating condition is indicated by the battery charger [STATUS] LED.
LED blinking slowly = The battery charger is powered.
LED steadily lit = The battery is charging.
LED blinking rapidly = The battery is charged.



NOTE
In order to enable the charging of the radio control batteries, the [+24V] battery switch and the [+12V] Diesel engine control unit switch must be set to ON.

5.2. MAIN RADIO CONTROL COMPONENTS

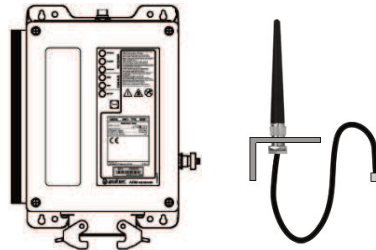
List of components

The radio control system is composed of:

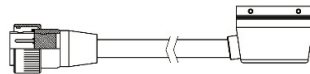
Transmitter



Receiver with antenna

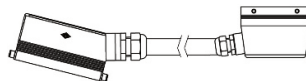


Receiver cable [360.4523]



The cable is used to connect the receiver to the [XPLB] socket of the vehicle.

Receiver cable [360.4532]



The cable is used to connect the receiver to the [XPEO] socket of the vehicle.

Transmitter – receiver emergency cable



Battery charger and two rechargeable batteries



Requesting spare parts

To request any spare parts, specify the serial number on each element.

5.3. ENABLING THE TRANSMITTER

Transmitter enabling procedure

- 1) Connect the vehicle batteries → [+24V] switch lever in the [ON] position.
- 2) Use the [360.4523] cable to connect the receiver to the [XPLB] connector.
- 3) [EB-I/K] Panel → General key in position 1.



- 4) Emergency stop button disabled (OFF).



- 5) Check that the **S-KEY** key (1) is correctly inserted (arrow in the horizontal position).
- 6) Selector switches (4) and (7) in position [0].
- 7) Press the transmitter power button (2).
- 8) Press the transmitter power button a second time (2).
The green LED starts blinking slowly indicating that the transmitter is enabled and is communicating with the receiver.



- 9) Enable the transmitter controls → Selector switch (4) in position [1].



Continued →

Continued "Enabling the transmitter" →

Transmitter enabling procedure following an emergency stop

- 1) Reset the emergency stop button (twist it clockwise).



- 2) Selector switches (4) ⏻ and (7) ⏮ in position [0].
- 3) Press the transmitter power button **START** (2).
- 4) Press the transmitter power button a second time **START** (2).
 The green LED starts blinking slowly indicating that the transmitter is enabled and is communicating with the receiver.



- 5) Enable the transmitter controls → Selector switch (4) ⏻ in position [1].



5.4. ENABLING THE VEHICLE

Operating procedure

After enabling the radio control transmitter, enable the vehicle using the lever selector switch ① of the transmitter or the button ① on the [EB-I/K] panel (INIT function).

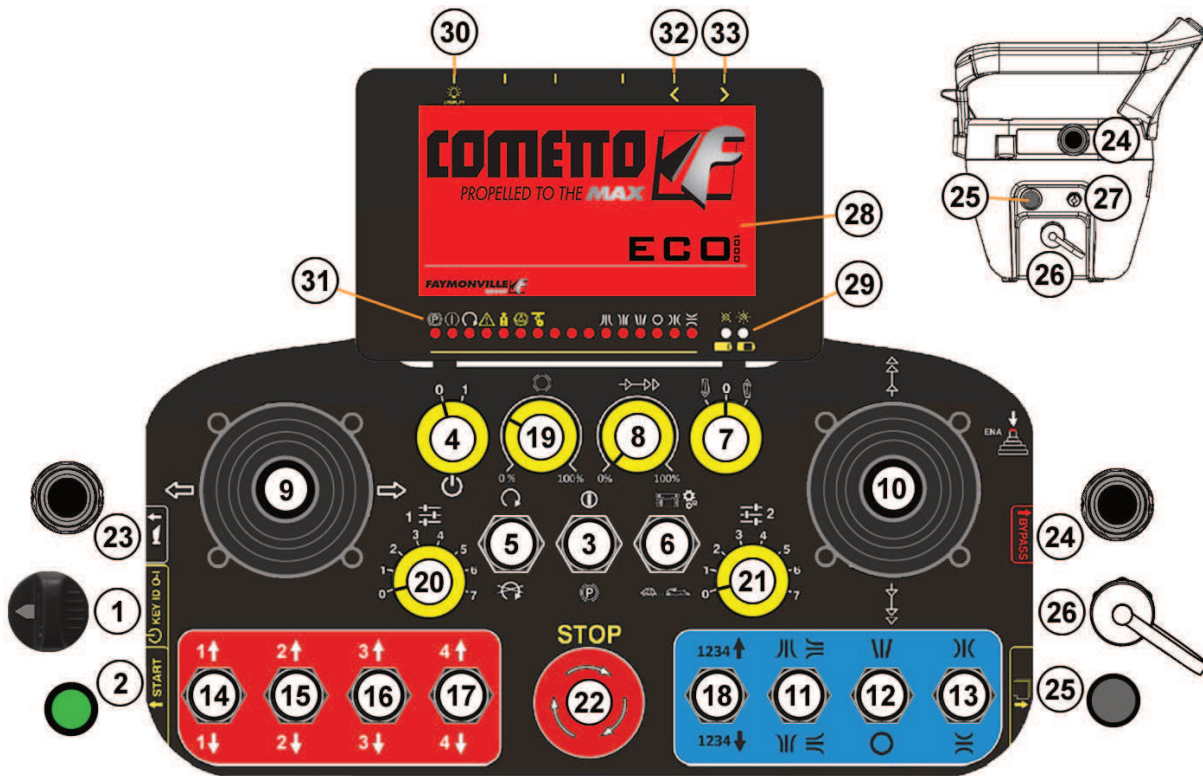
- Transmitter: Operate the selector switch after hearing/seeing the buzzer signal.



- [EB-I/K] panel: The blinking of the ① (INIT) button and the (acoustic and light) signal given by the buzzer indicate that the system is operational. Once the system is operational, press the ① (INIT) button; the button is steadily lit.



5.5. TRANSMITTER — DESCRIPTION OF CONTROLS



NOTE
Selector switches (4), (7), (20) and (21) are multi-position selector switches; all the other selectors available on the transmitter are (1-0-1) lever selectors with return to centre.


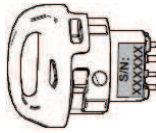










Lever selector switch with return to centre.

NOTE
Certain information, functions and icons in this chapter may not apply to your product, depending on the type of vehicle purchased.
























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Pos.	Description
1	<p>S-KEY In order for the radio control system to work, the transmitter key must be inserted correctly (arrow in the horizontal position).</p>   <p>INSERTING THE S-KEY 1) Push the S-KEY into its slot. 2) Turn the S-KEY clockwise.</p>   <p>PULLING OUT THE S-KEY 1) Turn the S-KEY counterclockwise. 2) Pull the S-KEY out of its slot.</p>  
2	<p>TRANSMITTER POWER BUTTON.</p> <p> NOTE For instructions on how to use the button, see paragraph 5.3.</p> 
3	<p> ENABLE THE VEHICLE – INIT. FUNCTION Operate the selector switch after hearing/seeing the buzzer signal.</p> <hr/> <p>ENGAGE/DISENGAGE THE PARKING BRAKE.</p> <p><u>ENGAGING THE PARKING BRAKE</u> Operate the selector switch.</p> <p> NOTE When the parking brake is applied, the brake lights of the removable rear lights (if installed) are automatically switched on.</p> <p><u>DISENGAGING THE PARKING BRAKE:</u> Press and hold the button on the end of the joystick (10) - “Dead man’s” button - and operate the selector switch; then release both controls.</p>
4	<p>SELECTOR SWITCH USED TO ENABLE THE TRANSMITTER CONTROLS. [0] position = The transmitter is on but the controls are not enabled. [1] position = Transmitter controls enabled.</p>
5	<p>LEVER SELECTOR USED TO START THE DIESEL ENGINE.</p> <hr/> <p>LEVER SELECTOR USED TO STOP THE DIESEL ENGINE.</p>

Continued →

Continued "Transmitter – Description of controls" →

Pos.	Description								
6	<p>LEVER SELECTOR FOR ACTIVATING LOADING PLATFORM EQUALISATION. Operate the selector switch to alternately activate/deactivate the vehicle loading platform equalisation.</p> <table border="1" data-bbox="302 352 829 506"> <tr> <td data-bbox="302 352 391 428"></td> <td data-bbox="391 352 829 428">Equalisation mode active.</td> </tr> <tr> <td data-bbox="302 428 391 506"></td> <td data-bbox="391 428 829 506">Parallel mode active.</td> </tr> </table> <p>EQUALISATION MODE When this mode is active, the loading platform is kept as horizontal as possible while the vehicle is being driven, regardless of the slope of the ground on which the wheels rest. The mode is automatically deactivated when acting on any of the point-to-point or total lift switches (switches (14), (15), (16), (17) and (18)) or when at least one of the suspensions reaches the end of its lifting or lowering travel. It is not possible to activate the mode when there is a lift system error (see paragraph 10.4). </p> <p>PARALLEL MODE When manoeuvring the vehicle, the suspensions all tend to maintain the same height above the ground. To change the inclination of the loading platform, the vehicle must be raised/lowered with the point-to-point function as required.</p>		Equalisation mode active.		Parallel mode active.				
	Equalisation mode active.								
	Parallel mode active.								
6	<p>SLOW/FAST TRAVEL MODE LEVER SELECTOR.</p> <table border="1" data-bbox="302 852 865 1094"> <tr> <td data-bbox="302 852 391 928"></td> <td data-bbox="391 852 865 928">Very slow travel mode (inching).</td> </tr> <tr> <td data-bbox="302 928 391 1003"></td> <td data-bbox="391 928 865 1003">Slow travel mode.</td> </tr> <tr> <td data-bbox="302 1003 391 1094"></td> <td data-bbox="391 1003 865 1094">Fast travel mode.</td> </tr> </table> <p>To switch from Slow to Fast Travel Mode, and vice versa:</p> <ol style="list-style-type: none"> 1) <u>Stop the vehicle (release the throttle joystick).</u> 2) Engage the neutral gear → Selector (7) in position [0]. 3) Select the travel mode (Slow or Fast). <p> NOTE</p> <ul style="list-style-type: none"> • The Slow mode is selected by default when the vehicle starts. • Select the travel mode according to the load to be carried and the working area. • After any stop or gear disengagement, the vehicle starts with the last travel mode selected. • It is possible to switch from Slow mode to Very Slow Mode and vice versa, regardless of whether the vehicle is stopped or in motion, by pressing the bypass button . <p style="text-align: center;"></p> <p> ATTENTION With the vehicle in motion, changing from Slow to Fast mode and vice versa is inhibited.</p> <p>If the hydraulic oil temperature is low, the vehicle will not be able to reach the maximum speed set for the selected mode.</p> <table border="1" data-bbox="302 1654 781 1738"> <tr> <td data-bbox="302 1654 391 1738"></td> <td data-bbox="391 1654 781 1738">Low hydraulic oil temperature icon.</td> </tr> </table>		Very slow travel mode (inching).		Slow travel mode.		Fast travel mode.		Low hydraulic oil temperature icon.
	Very slow travel mode (inching).								
	Slow travel mode.								
	Fast travel mode.								
	Low hydraulic oil temperature icon.								






















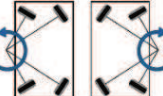

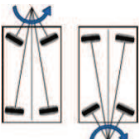
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Pos.	Description										
7	<p>TRAVEL DIRECTION SELECTOR – FORWARD / NEUTRAL / REVERSE.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td>REVERSE</td> </tr> <tr> <td>0</td> <td>NEUTRAL GEAR</td> </tr> <tr> <td></td> <td>FORWARD GEAR</td> </tr> </table> <p>! ATTENTION Do not turn around to change direction or insert the neutral gear with the vehicle in motion! These manoeuvres can cause serious damage to the motorization system.</p>		REVERSE	0	NEUTRAL GEAR		FORWARD GEAR				
	REVERSE										
0	NEUTRAL GEAR										
	FORWARD GEAR										
8	<p>ACCELERATOR ADJUSTMENT POTENTIOMETER. Depending on the selected travel mode (selector 6), the potentiometer position, within a range from 0% to 100%, determines the maximum acceleration that can be reached by the vehicle.</p> <p> NOTE <i>Vehicle acceleration is achieved by adjusting the potentiometer combined with the operator's action on the joystick (10) –lever forward.</i></p>										
9	<p>STEERING JOYSTICK.</p> <p> NOTE <i>When 5° steering degrees to the right or left are exceeded, the direction indicators of the removable front and rear lights (if installed) are automatically activated.</i></p>										
10	<p>JOYSTICK.</p> <table border="1" style="width: 100%;"> <tr> <td style="text-align: center; vertical-align: middle;"> </td> <td> Vehicle acceleration according to the forward inclination of the lever: (Lever all the way forward) = (Maximum acceleration) The maximum acceleration that can be achieved depends on the position of the potentiometer (8) →→→ : if the potentiometer is positioned close to zero, even if the joystick is moved all the way forwards, the acceleration and speed of the vehicle will be small (and vice versa). </td> <td style="text-align: center; vertical-align: middle;"> </td> </tr> <tr> <td style="text-align: center; vertical-align: middle;"> </td> <td> Vehicle braking (service brake) according to the backward inclination of the lever: (Lever all the way back) = (Maximum braking) The maximum braking that can be achieved depends on the position of the potentiometer (19) ○ : if the potentiometer is positioned close to zero, even if the joystick is moved all the way back, braking will be moderate (and vice versa). NOTE <i>When the service brake is applied, the brake lights of the removable rear lights automatically turn on (if installed).</i> </td> <td style="text-align: center; vertical-align: middle;"> </td> </tr> </table> <p>The top end of the joystick has an incorporated “Dead man’s” button to disengage the parking brake. When the Diesel engine starts and/or the radio control is enabled, the parking brake is engaged.</p> <table border="1" style="width: 100%;"> <tr> <td style="text-align: center;"></td> <td>Parking brake engaged icon.</td> </tr> <tr> <td style="text-align: center;"></td> <td>Parking brake engaged LED (LED on).</td> </tr> </table> <p>To disengage the parking brake, you must: <u>press and hold</u> the button on the end of the joystick (“Dead man’s” button) and operate the selector switch (3) (3); then release both controls.</p> <div style="text-align: center;"> </div>		Vehicle acceleration according to the forward inclination of the lever: (Lever all the way forward) = (Maximum acceleration) The maximum acceleration that can be achieved depends on the position of the potentiometer (8) →→→ : if the potentiometer is positioned close to zero, even if the joystick is moved all the way forwards, the acceleration and speed of the vehicle will be small (and vice versa).			Vehicle braking (service brake) according to the backward inclination of the lever: (Lever all the way back) = (Maximum braking) The maximum braking that can be achieved depends on the position of the potentiometer (19) ○ : if the potentiometer is positioned close to zero, even if the joystick is moved all the way back, braking will be moderate (and vice versa). NOTE <i>When the service brake is applied, the brake lights of the removable rear lights automatically turn on (if installed).</i>			Parking brake engaged icon.		Parking brake engaged LED (LED on).
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	Parking brake engaged icon.										
	Parking brake engaged LED (LED on).										

Continued →

Continued "Transmitter – Description of controls" →

Pos.	Description
11	<p>LEVER SELECTOR USED TO STEER THE REAR AND LEFT SIDE WHEELS</p> <p><u>REAR WHEEL STEERING</u></p> <ul style="list-style-type: none"> • Select longitudinal steering (selector ) • Select rear wheel steering (selector ) • Operate the steering joystick . <p>The steering centre is positioned on the front wheel axle of the vehicle. To return to central steering, operate selector .</p> <p><u>LEFT SIDE WHEEL STEERING</u></p> <ul style="list-style-type: none"> • Select side steering (selector ) • Select left side wheel steering (selector ) • Operate the steering joystick . <p>The steering centre is positioned on the axle corresponding to the wheels on the right side of the vehicle. To return to central steering, operate selector .</p>
	<p>LEVER SELECTOR USED TO STEER THE FRONT AND RIGHT SIDE WHEELS.</p> <p><u>REAR WHEEL STEERING</u></p> <ul style="list-style-type: none"> • Select longitudinal steering (selector ) • Select front wheel steering (selector ) • Operate the steering joystick . <p>The steering centre is positioned on the rear wheel axle of the vehicle. To return to central steering, operate selector .</p> <p><u>RIGHT SIDE WHEEL STEERING</u></p> <ul style="list-style-type: none"> • Select side steering (selector ) • Select right side wheel steering (selector ) • Operate the steering joystick . <p>The steering centre is positioned on the axle corresponding to the wheels on the left side of the vehicle. To return to central steering, operate selector .</p>
12	<p>LEVER SELECTOR FOR PARALLEL STEERING. After selecting this steering mode, when the  joystick (7) is operated, all wheels steer in parallel.</p> 
	<p>LEVER SELECTOR FOR CIRCULAR (CAROUSEL) STEERING. After selecting this steering mode, when the  joystick (7) is operated, all wheels steer circularly.</p> 
13	<p>LEVER SELECTOR FOR LONGITUDINAL TO CENTRE STEERING. After selecting this steering mode, when the  joystick (7) is operated, all wheels steer. The steering centre is positioned on the transversal axle of the vehicle.</p> 
	<p>LEVER SELECTOR FOR SIDE TO CENTRE STEERING. After selecting this steering mode, when the selector is operated, all the wheels are automatically positioned at 90°. Then, when the  joystick (7) is operated, all wheels steer. The steering centre is positioned on the longitudinal axle of the vehicle.</p> 

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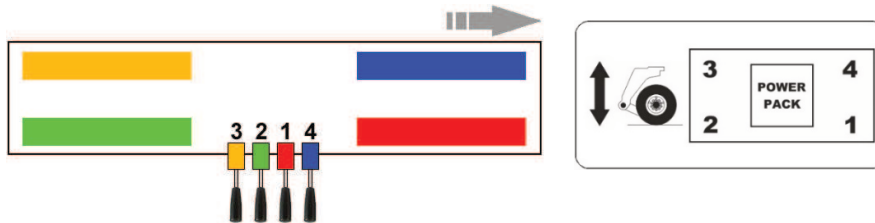
Continued →

Pos.	Description
14	HYDRAULIC POINT [1] LIFTING/LOWERING LEVER SELECTOR.
15	HYDRAULIC POINT [2] LIFTING/LOWERING LEVER SELECTOR.
16	HYDRAULIC POINT [3] LIFTING/LOWERING LEVER SELECTOR.
17	HYDRAULIC POINT [4] LIFTING/LOWERING LEVER SELECTOR.
18	<p>LEVER SELECTOR FOR LIFTING AND LOWERING ALL FOUR STABILITY POINTS – Total lifting / lowering.</p> <p>Before acting on the selector, check that the pressures at the hydraulic points are almost equal; if not, try to balance the pressures by acting on the individual points. The pressure values can be checked via the transmitter display, the vehicle's pressure gauges or the touch screen display on the control cabinet [EB1].</p>



WARNING







Both for lifting and lowering, make small variations on the loading surface until the desired height is reached. Adjust one selector at a time, checking the pressure at the hydraulic points at all times.



19	<p>BRAKE ADJUSTMENT POTENTIOMETER.</p> <p>The potentiometer allows brake intensity regulation. The position of the potentiometer can vary from 0 to 100%, thereby obtaining regulation of the braking strength.</p> <p><i>NOTE</i> The braking force of the vehicle is determined by the potentiometer adjustment combined with the operation of the joystick (10) – joystick pulled backwards.</p>
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Continued →

Continued "Transmitter – Description of controls" →

Pos.	Description
20	<p>VEHICLE SETTING SELECTOR.</p> <p>[1] ECO mode → Press button (25) to switch ECO mode on/off.</p> <ul style="list-style-type: none"> ECO mode off: engine speed always varies depending on the acceleration set via the joystick (10). ECO mode on. By activating the ECO mode the engine revs are fixed at the constant speed of 1500 rpm/1', allowing lower fuel consumption. When accelerating with the joystick (10), the engine revs remain constant until, in order to accelerate further, they need to increase: if the lever is tilted further forward, the engine revs increase; if the lever is released, the engine returns to 1500 rpm.
	<p>[2] Press button (25) to switch on/off:</p> <ul style="list-style-type: none"> The side working lights. The position and low-beam lights of the removable front lights (if installed).
	<p>[3] Sound alarms disabling → Operate the button (25) to enable/disable the vehicle sound alarms.</p> <p> NOTE <i>This setting cannot be saved: disable the sound alarms at each start of the vehicle, if necessary.</i></p>
	<p>[4] Press button (25) to turn on / off the high-beam lights of the front removable headlamps (if installed).</p>
	<p>[5] Press button (25) to turn on / off the rear fog lights of the removable rear lamps (if installed).</p>
	<p>[6] Press button (25) to switch on / off all front and rear removable lamp turn indicators (if installed) in flashing mode (four arrows).</p>
	<p>[7] Rotate all suspensions to maintenance position → Operate the button (25) to rotate all suspensions by 90°.</p>
21	<p>VEHICLE SETTING SELECTOR.</p> <p>[3] Resetting the odometer → Press button (25) to reset the odometer visible on the display of the electrical cabinet [EB1] to zero.</p> <p> NOTE <i>The other positions are not active.</i></p>
22	<p>EMERGENCY STOP BUTTON AND RADIO CONTROL SHUTDOWN.</p> <p><u>RADIO CONTROL SHUTDOWN</u> Turn off the radio control only after stopping the vehicle.</p> <p><u>EMERGENCY STOP</u></p> <p> WARNING Use this button only in case of emergency: its operation turns off the Diesel engine and stops the vehicle very abruptly. Pressing the emergency stop button, the following residual risks can be generated:</p> <ul style="list-style-type: none"> movement and/or overloading of the load; possible damage to the motorization system. <p>To reactivate the transmitter and resume the vehicle functions, reset the button (by slightly twisting it clockwise) → see the instructions in paragraph 5.3. </p> <p> OFF  ON</p>
23	HORN.






Continued →

Continued →

Pos.	Description				
24	<p>BUTTON USED FOR:</p> <ul style="list-style-type: none"> • BYPASSING THE LIFTING/LOWERING LIMITS. • CHANGING THE TRAVEL MODE - SLOW ← → VERY SLOW <p>BYPASSING THE LIFTING/LOWERING LIMITS Press and hold this button and operate the (point-to-point or total) lifting/lowering selector to:</p> <ul style="list-style-type: none"> • Lift the vehicle beyond the lifting limit switch. • Lower the vehicle beyond the lowering limit switch. • Lift and lower the vehicle when a system error is present. <p>The error is presented when the difference in height, between the highest point and the lowest point of the vehicle, is over 60 mm. A point is intended as the height detected on the external suspension equipped with a potentiometer.</p> <div data-bbox="337 632 651 711" style="border: 1px solid black; padding: 5px; margin: 10px 0;">  System error icon. </div> <p>! ATTENTION <i>This function must be used if and only as long as strictly necessary, under the operator's full responsibility. As soon as possible, bring the system to normal working conditions.</i></p> <p>🔍 NOTE <i>For further information, see chapter 10.</i> </p> <p>CHANGING THE TRAVEL MODE Press this button to switch from Slow to Very Slow mode and vice versa, while the vehicle is stopped or in motion.</p> <div data-bbox="305 982 1144 1140" style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <div style="display: flex; align-items: center; justify-content: center;">  ← →  </div> <table border="1" style="width: 100%; margin-top: 10px;"> <tr> <td style="text-align: center;"></td> <td>Very Slow (Inching) travel mode.</td> </tr> <tr> <td style="text-align: center;"></td> <td>Slow travel mode.</td> </tr> </table> </div> <p>🔍 NOTE <i>For further information, see paragraph 9.2.1.</i> </p>		Very Slow (Inching) travel mode.		Slow travel mode.
	Very Slow (Inching) travel mode.				
	Slow travel mode.				
25	<p>FUNCTION ENABLE/DISABLE BUTTON This button enables/disables the selected functions (selector 20).</p>				
26	<p>TRANSMITTER-RECEIVER EMERGENCY CABLE CONNECTOR. If the radio control batteries are flat or not working, if there are radio communication problems between the receiver and the transmitter or if the vehicle is used in special environments, it may be necessary to use the radio control with the emergency cable. The cable must be connected to the relevant connector located on the transmitter and to the receiver connector.</p> <div data-bbox="305 1451 1084 1724" style="text-align: center;">  </div> <p>! ATTENTION <i>Connect/disconnect the emergency cable only after switching off the transmitter.</i></p>				

Continued →

Continued "Transmitter – Description of controls" →

Pos.	Description																										
27	<p>CONFIGURATION PORT. This port is to be used by Cometto S.p.A. technicians only.</p> <p> ATTENTION <i>The cap must always be inserted to avoid any short circuits.</i></p>																										
28	<p>DISPLAY.</p> <p> NOTE <i>The screens are described in paragraph 5.5.1.</i></p> 																										
29	DISPLAY BACKLIGHT BUTTON.																										
30	<p>TRANSMITTER INFORMATION LED INDICATOR LIGHT</p>  <table border="1" style="width: 100%;"> <thead> <tr> <th>Green LED</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>Off.</td> <td>The transmitter is off.</td> </tr> <tr> <td>Blinking rapidly.</td> <td>The transmitter is enabled but it is not communicating with the receiver.</td> </tr> <tr> <td>Blinking slowly.</td> <td>The transmitter is enabled and is communicating with the receiver.</td> </tr> </tbody> </table> <table border="1" style="width: 100%;"> <thead> <tr> <th>Red LED</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>Off.</td> <td>The transmitter works properly.</td> </tr> <tr> <td>Flashing.</td> <td>The battery is running low. The flashing LED is accompanied by an audible signal. 3.5 minutes after receiving this signal, the transmitter will switch off automatically. Replace the battery with a charged one.</td> </tr> </tbody> </table>	Green LED	Meaning	Off.	The transmitter is off.	Blinking rapidly.	The transmitter is enabled but it is not communicating with the receiver.	Blinking slowly.	The transmitter is enabled and is communicating with the receiver.	Red LED	Meaning	Off.	The transmitter works properly.	Flashing.	The battery is running low. The flashing LED is accompanied by an audible signal. 3.5 minutes after receiving this signal, the transmitter will switch off automatically. Replace the battery with a charged one.												
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31	<p>MACHINE STATUS LED.</p>  <p>LED on:</p> <table border="1" style="width: 50%;"> <tbody> <tr><td>A</td><td>Parking brake engaged.</td></tr> <tr><td>B</td><td>Vehicle operational.</td></tr> <tr><td>C</td><td>Diesel engine on.</td></tr> <tr><td>D</td><td>General danger/abnormal situation.</td></tr> <tr><td>E</td><td>Overload.</td></tr> <tr><td>F</td><td>Steering error.</td></tr> <tr><td>G</td><td>Lifting error.</td></tr> </tbody> </table> <table border="1" style="width: 50%;"> <tbody> <tr><td>H</td><td>Rear or left side wheel steering.</td></tr> <tr><td>I</td><td>Front or right side wheel steering.</td></tr> <tr><td>J</td><td>Parallel steering.</td></tr> <tr><td>K</td><td>Circular steering.</td></tr> <tr><td>L</td><td>Longitudinal to centre steering.</td></tr> <tr><td>M</td><td>Side to centre steering.</td></tr> </tbody> </table> <p>(If the LED is flashing, it means that the wheels are moving and the suspensions are being set up for the newly selected steering mode)</p>	A	Parking brake engaged.	B	Vehicle operational.	C	Diesel engine on.	D	General danger/abnormal situation.	E	Overload.	F	Steering error.	G	Lifting error.	H	Rear or left side wheel steering.	I	Front or right side wheel steering.	J	Parallel steering.	K	Circular steering.	L	Longitudinal to centre steering.	M	Side to centre steering.
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J	Parallel steering.																										
K	Circular steering.																										
L	Longitudinal to centre steering.																										
M	Side to centre steering.																										
32	<p>SCREEN CHANGE BUTTON. Press this button to return to the previous screen.</p>																										
33	<p>SCREEN CHANGE BUTTON. Press this button to go to the next screen.</p>																										

5.5.1 Display – Screen description

Start screen

This screen appears after the transmitter is switched on.



Radio communication error screen

The screen below is displayed when:

- The radio communication is interrupted.
- The receiver is not connected.
- The vehicle is not operational (control board on [EB1] panel off).



Screen browse buttons

Press the buttons shown in the figure to switch between the main screen and the machine status icon screen.



Main screen “MAIN”

The screen below is displayed after enabling the transmitter controls → see the instructions in paragraph 5.3.



NOTE
The main screen is described in paragraph 5.5.1.1.



Continued →

Continued "Display – Screen description" →

Machine status icon screen "STATUS"



NOTE
The icons indicating the status of the machine are described in paragraph 4.11.



Pressures screen "PRESSURE"

The screen does not provide any information, it is blank.

Screen for other vehicle parameters "VEHICLE"

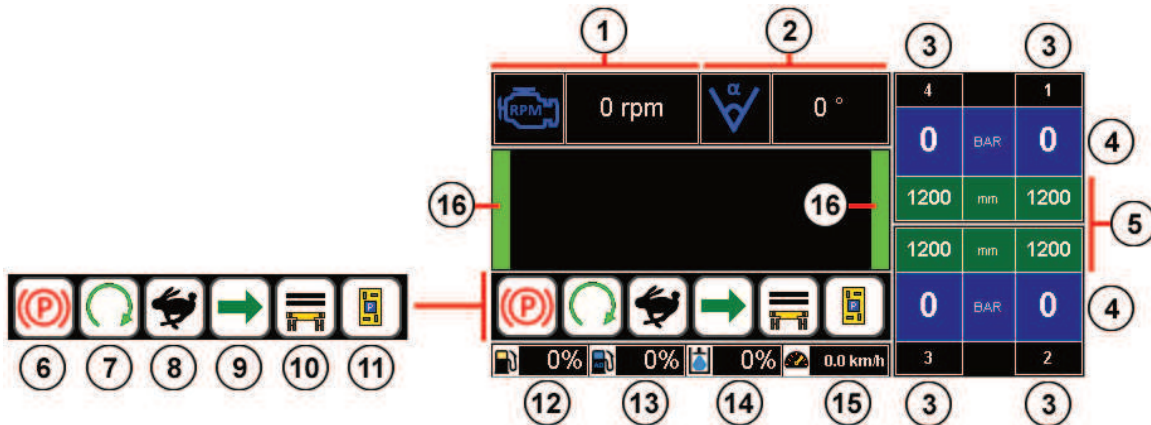
	0 °C	Press Pilot 0.0 Bar	Press A 0 Bar	Press B 0 Bar












NOTE
A description of this screen is given in section 5.5.1.3.






































5.5.1.1. Main screen “MAIN”



Pos.	Description
1	 Manual control mode. Engine revs are controlled by the throttle joystick.
	 ECO mode. The engine revs are set to 1500 rpm. For more information on the mode and how to switch it off, see paragraph 5.5. 
2	STEERING ANGLE.
3	HYDRAULIC POINT.
4	HYDRAULIC POINT PRESSURE. If the field is red, it means that there is an error.
5	HYDRAULIC POINT HEIGHT FROM THE GROUND. If the field is red, it indicates a lifting potentiometer error.
6	PARKING BRAKE ENGAGED. 
7	DIESEL ENGINE ON. 
	DIESEL ENGINE OFF. 
8	TRAVEL MODE.
	 Very Slow (Inching) travel mode.
	 Slow travel mode.
	 Fast travel mode.

Continued →

Continued "Main screen "MAIN" " →

Pos.	Description										
9	<p>TRAVEL DIRECTION.</p> <table border="1"> <tr> <td></td> <td>Forward Gear.</td> </tr> <tr> <td></td> <td>Reverse.</td> </tr> <tr> <td></td> <td>Neutral Gear.</td> </tr> <tr> <td></td> <td>To the Left.</td> </tr> <tr> <td></td> <td>To the Right.</td> </tr> </table>		Forward Gear.		Reverse.		Neutral Gear.		To the Left.		To the Right.
		Forward Gear.									
		Reverse.									
		Neutral Gear.									
		To the Left.									
		To the Right.									
											
<p>VEHICLE LIFTING/LOWERING MODES.</p> <p><u>Total Lifting/Lowering inhibited.</u></p> <table border="1"> <tr> <td></td> <td></td> <td>Lifting system error icon.</td> </tr> </table> <p>Nor total lifting neither total lowering operations are allowed if the lifting system error occurs, i.e. the height difference between the highest and the lower points of the vehicle is at least 60 mm. The relevant icon lights up in the machine status icon screen and on the display of the [EB1] panel. Use the point-to-point function to level the point heights and exit the error condition.</p> <p><u>No lifting/lowering operation in progress.</u></p> <table border="1"> <tr> <td></td> <td colspan="2">If loading platform equalisation is active and no lifting or lowering manoeuvre is performed, the icon appears.</td> </tr> <tr> <td></td> <td colspan="2">Parallel mode. (no lifting/lowering in progress)</td> </tr> </table>				Lifting system error icon.		If loading platform equalisation is active and no lifting or lowering manoeuvre is performed, the icon appears.			Parallel mode. (no lifting/lowering in progress)		
		Lifting system error icon.									
	If loading platform equalisation is active and no lifting or lowering manoeuvre is performed, the icon appears.										
	Parallel mode. (no lifting/lowering in progress)										
10	<p>Loading platform equalisation is automatically deactivated whenever any of the lifting and lowering switches are operated, either Point-to-Point or total, or when one or more suspensions reach the end of their lifting or lowering travel.</p> <p><u>Parallel lifting / lowering (total lifting / lowering).</u></p> <table border="1"> <tr> <td></td> <td>Parallel lifting in progress.</td> </tr> <tr> <td></td> <td>Parallel lowering in progress.</td> </tr> </table> <p>During lifting and lowering manoeuvres, the vehicle's suspensions tend to maintain the same height. In order to change the inclination of the loading surface, the suspension must be raised/lowered in 'point-to-point' mode.</p> <p><u>Point-to-Point Lifting/Lowering.</u></p> <p></p> <p>The Point-to-Point lifting/lowering mode allows the operator to raise/lower each hydraulic point of the vehicle individually.</p>		Parallel lifting in progress.		Parallel lowering in progress.						
		Parallel lifting in progress.									
		Parallel lowering in progress.									

Continued →

Continued →

Pos.	Description																		
11	<p>SELECTED STEERING MODE.</p> <table border="1"> <tr> <td></td> <td>No steering mode selected.</td> </tr> <tr> <td></td> <td>Longitudinal to centre steering.</td> </tr> <tr> <td></td> <td>Circular (carousel) steering.</td> </tr> <tr> <td></td> <td>Side to centre steering.</td> </tr> <tr> <td></td> <td>Rear wheel steering.</td> </tr> <tr> <td></td> <td>Front wheel steering.</td> </tr> <tr> <td></td> <td>Parallel steering.</td> </tr> <tr> <td></td> <td>Right side wheel steering.</td> </tr> <tr> <td></td> <td>Left side wheel steering.</td> </tr> </table>		No steering mode selected.		Longitudinal to centre steering.		Circular (carousel) steering.		Side to centre steering.		Rear wheel steering.		Front wheel steering.		Parallel steering.		Right side wheel steering.		Left side wheel steering.
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		Front wheel steering.																	
		Parallel steering.																	
		Right side wheel steering.																	
	Left side wheel steering.																		
12	<p>FUEL LEVEL (%).</p> If the field is red, it means that the vehicle must be refuelled.																		
13	<p>ADBLUE® ADDITIVE LEVEL (%).⁽¹⁾</p> If the field is red, it means that the additive tank must be refilled.																		
14	<p>HYDRAULIC OIL LEVEL (%).</p> If the field is red, it means that the hydraulic oil must be topped-up.																		
15	<p>VEHICLE SPEED (km/h).</p>																		
16	<p>EMERGENCY STOP. Green: Emergency stop OFF. Red: Emergency stop ON.</p>																		

⁽¹⁾ = the SCR system (see paragraph 1.13.6) is available only on some of the Diesel engine equipped vehicles.



5.5.1.2. Machine status icons screen “STATUS”



NOTE

The icons indicating the status of the machine are described in paragraph 4.11.



ATTENTION

The danger is not indicated only by the icon but also by the buzzer installed on the vehicle (light and acoustic signals). In particular, the buzzer starts in case of:

- Low coolant level.
- Low hydraulic oil level.
- Steering fault.
- Braking system failure.
- Lifting/lowering fault.
- Overload.
- Overturning.

5.5.1.3. Screen for other vehicle parameters “VEHICLE”



Pos.	Description
1	PRESS PILOT. Motorized axle control pressure [bar]. It allows varying the displacement of the hydraulic motors of the motorized axles.
2	PRESS A. Pressure on branch A of the hydraulic system motorization circuit [bar].
3	PRESS B. Pressure on branch B of the hydraulic system motorization circuit [bar].