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***Instructions and warnings for safe use of  
the accessory.***

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## Operating instructions for the user

### Introduction

Most of the accidents linked to use, maintenance and repair are due to failure to apply and comply with the elementary safety standards. These accidents can be avoided by identifying the risks to which the user will be exposed and by taking the necessary precautions.

Specifically, the user must strictly follow the indications given below:

- ✓ Operations or movements not described in this Use and Maintenance Manual must be avoided; the person using methods other than those recommended must first ensure his own safety, the safety of others and correct handling of the equipment;
- ✓ The Manufacturer has designed the accessory accurately, with the help of appropriate tools and technologies to ensure its safety; however, it is difficult to assess all the work situations the fork carriage may be subject to in different operating conditions. Consequently, the user is responsible not only for following the indications given in this *Use and Maintenance Manual*, but also for adopting the methods for use that take into account the provisions and legislation on occupational health and safety in force in the country in which the equipment is used, associated with responsible use of the equipment, capable of foreseeing and preventing potential danger situations generated by special logistic, climatic, visibility and health conditions of the user.
- ✓ **Failure to comply with the safety regulations listed in the Use and Maintenance Manual for the use, maintenance and repair of the accessory can result in serious accidents, sometimes even fatal.**

### List of main risks and recommendations regarding the use of the equipment

- ✓ **Read the Use and Maintenance Manual carefully;**
- ✓ **Check the condition of the ground before using the crane with the accessory;**
- ✓ **Comply with the data indicated on the load charts. Do not attempt to lift weights exceeding those permitted on the load charts attached to the vehicle, under any circumstances whatsoever;**
- ✓ **If the lifting capacity of the accessory is different from that of the crane, take the lesser of the two as the maximum limit;**
- ✓ **It is strictly forbidden to tamper with the safety devices provided on the equipment;**
- ✓ **The equipment must not be modified to increase its lifting capacity;**
- ✓ **Keep the load low and with the telescopic boom completely retracted;**
- ✓ **Adjust the forklift truck speed to the ground conditions;**
- ✓ **Avoid sudden movements while handling the load;**
- ✓ **Do not use the equipment in the vicinity of overhead electricity lines; always keep at a safety distance of at least 5 m, especially where these are powered, or their state is not known;**
- ✓ **Prevent the possibility of outsiders moving around in the work areas by means of warning signs and barriers in compliance with the regulations, provisions and laws on the matter of work safety established in the different countries in which the equipment is used;**
- ✓ **Only transport loads that are properly balanced;**
- ✓ **The equipment must be lowered to the ground in a hazard-free area devoid of obstacles;**
- ✓ **The empty hook must be lowered gently, to prevent abnormal stresses on the rope which can damage the rope itself or the equipment structure;**
- ✓ **Never leave the forklift truck parked with a raised load;**
- ✓ **The operator is required to stop using the vehicle in conditions of poor visibility and lighting and in particularly adverse weather conditions (storms with lightning);**
- ✓ **While working at a height, constantly check that the wind speed never exceeds 45 km/h. In case of strong wind, retract the equipment immediately, as the specific wind pressure on hanging loads can overload the forklift truck and affect its stability;**
- ✓ **The forklift truck, equipped with accessories with winch, must be inspected periodically as envisaged for lifting equipment, in compliance with legislation, provisions and regulations applicable in the country of use. The user alone is responsible for ensuring compliance with the legislation in force.**

## Conditions for using the forks in case of wind

- ✓ The forks can also be used if wind is present, provided they do not exceed Grade 6 of the Beaufort Scale (speed 49 km/h; 27 nodes; 13.8 m/s);
- ✓ For visual identification of this speed, refer to the Beaufort Scale below for empiric evaluation of the wind speed.

BEAUFORT WIND SCALE					
force	speed (km/h)	speed (mi/h)	speed (m/s)	wind type	wind effects
0	0 - 1	0 - 1	> 0.3	calm	smoke rises vertically; sea surface mirror-like.
1	1 - 5	1 - 4	0.3 - 1.5	light air	wind causes smoke to drift; ripples on water.
2	6 - 11	5 - 7	1.6 - 3.3	light breeze	leaves rustle; small wavelets.
3	12 - 19	8 - 11	3.4 - 5.4	gentle breeze	leaves and twigs constantly moving; large wavelets, crests begin to break.
4	20 - 28	12 - 18	5.5 - 7.9	moderate breeze	the wind raises dust, dry leaves, small tree branches constantly moving; small waves becoming longer.
5	29 - 38	19 - 24	8 - 10.7	fresh breeze	small trees in leaf begin to sway; small waves formed in internal waters; waves become moderately longer.
6	39 - 49	25 - 31	10.8 - 13.8	strong breeze	larger tree branches moving, whistling in telegraph wires; whitecaps on the sea surface and spray.
7	50 - 61	32 - 38	13.9 - 17.1	near gale	whole trees moving, resistance when walking against wind; sea heaps up, white foam streaks of breakers.
8	62 - 74	39 - 46	17.2 - 20.7	gale	twigs breaking off trees, walking against wind becomes impossible, moderately high waves of greater length, edges of crests begin to break into spindrift.
9	75 - 88	47 - 54	20.8 - 24.4	strong gale	shingles and tiles blown away; high waves, dense streaks of foam and spray, raised by wind, reduce the visibility.
10	89 - 102	55 - 63	24.5 - 28.4	storm	seldom experienced on land, trees uprooted, considerable damage to dwellings; very high waves with long overhanging crests.
11	103 - 117	64 - 73	28.5 - 32.6	violent storm	rare, severe devastation; enormous high waves, which can conceal medium sized ships; poor visibility.
12	beyond 118	74 +	32.7 +	hurricane	destruction of buildings, constructions etc.; foam and sprays in the seas reduce visibility to a very great extent.

## Instructions for using the forks

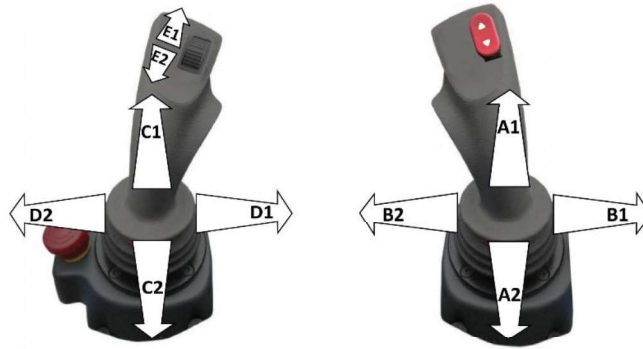
### How to position and connect the fork carriage plate to the boom

- ✓ Only personnel qualified and trained for driving the forklift truck and using the various accessories provided on it must be allowed to connect the fork carriage plate;
- ✓ The accessory connecting operations must be performed by an operator provided with appropriate personal protective equipment;

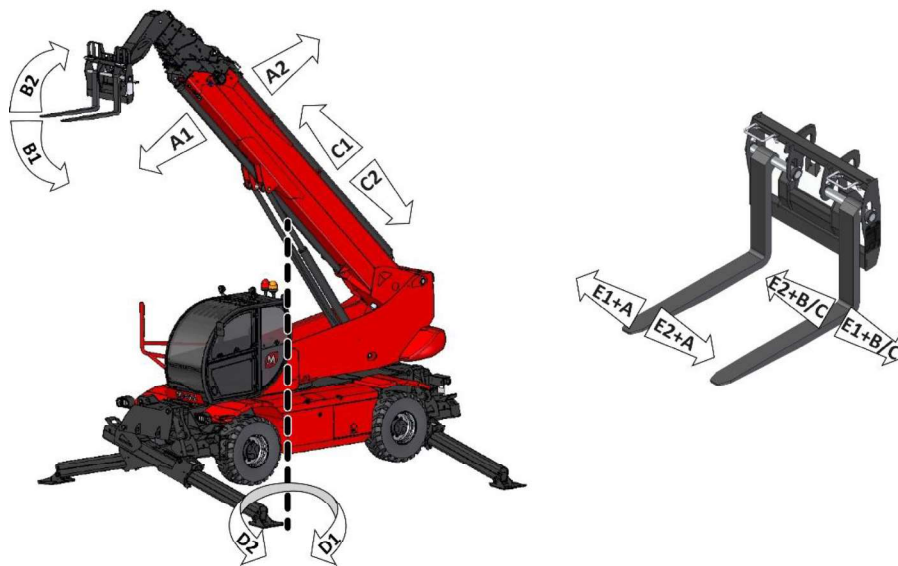


<ul style="list-style-type: none"> <li>✓ position the fork carriage plate on a stable level surface;</li> <li>✓ move the telescopic boom head perpendicular to the accessory so that it can be fitted into the hooking seat;</li> </ul>	
<ul style="list-style-type: none"> <li>✓ Insert the quick-fit coupling pins into the accessory's seat,</li> <li>✓ tilt the quick-fit coupling until it is fully coupled with the accessory,</li> </ul>	
<ul style="list-style-type: none"> <li>✓ insert the locking pin and secure it with the shear pin</li> </ul>	
<ul style="list-style-type: none"> <li>✓ When the forklift truck starts up, the display shows the information regarding the accessory detected, with the descriptive text and photo.</li> <li>If it is correct, the operator must validate it by pressing the green button.</li> <li>✓ Once the accessory is recognised, the software program for checking the safety parameters of the forklift truck is activated automatically.</li> </ul>	
<p><b>If the accessory is not recognised, check the state of preservation of the signal transmitter present on the accessory and of the signal receiver present at the head of the boom. If there is no damage, contact the Magni Telescopic Handlers Assistance Service.</b></p>	
<p><b>For accessory models fitted with a hydraulic forks positioner</b></p> <ul style="list-style-type: none"> <li>✓ insert the quick-release couplings of the accessory's hydraulic system in the connectors on the telescopic boom head;</li> <li>✓ <u>facilitate the operation by first draining the hydraulic circuit with the joystick roller in the cab, with the engine running and without pressing the enable button.</u></li> </ul>	

## Managing the accessory's controls from the RTH cab



	<p>Inside the grip of each servo control there is a button with the “<b>movement enable</b>” function: press this button to impart a command to the forklift truck or accessory attached. Absence of the procedure is displayed on the control panel</p>	
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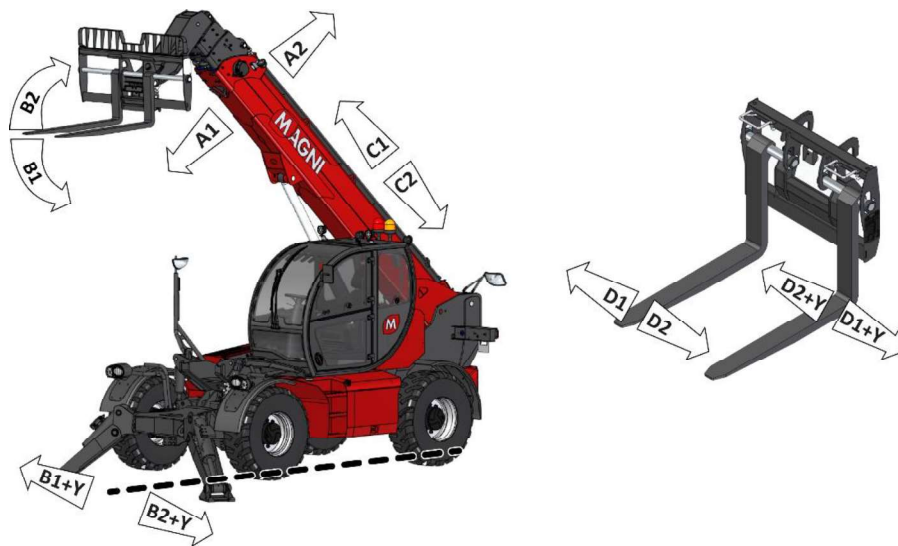


- A1:** move the right joystick forward to lower the telescopic boom;
- A2:** move the right joystick backward to raise the telescopic boom;
- B1:** move the right joystick to the right to tilt the accessory downward;
- B2:** move the left joystick to the right to tilt the accessory upward;
- C1:** move the left joystick forward to extend the telescopic boom;
- C2:** move the left joystick backward to retract the telescopic boom;
- D1:** move the left joystick to the right to rotate the vehicle's turret clockwise;
- D2:** move the left joystick to the left to rotate the vehicle's turret anticlockwise;
- E1 + dashboard button in A:** rotate the roller forward to move the right fork outwards;
- E2 + dashboard button in A:** rotate the roller backward to move the right fork inwards;
- E1 + dashboard button in B/C:** rotate the roller forward to move the left fork outwards;
- E2 + dashboard button in B/C:** rotate the roller backward to move the left fork inwards;

## Managing the accessory's controls from the TH cab



Inside the grip of each servo control there is a button with the **“movement enable”** function: press this button to impart a command to the forklift truck or accessory attached. Absence of the procedure is displayed on the control panel



**A1:** move the right joystick forward to lower the telescopic boom;

**A2:** move the right joystick backward to raise the telescopic boom;

**B1:** move the right joystick to the right to tilt the accessory downwards;

**B2:** move the left joystick to the right to tilt the accessory upwards;

**B1+Y button:** move the right joystick to the right to move the carriage to the right;

**B2+Y button:** move the right joystick to the left to move the carriage to the left;

**C1:** rotate the roller forward to extend the telescopic boom;

**C2:** rotate the roller backward to retract the telescopic boom;

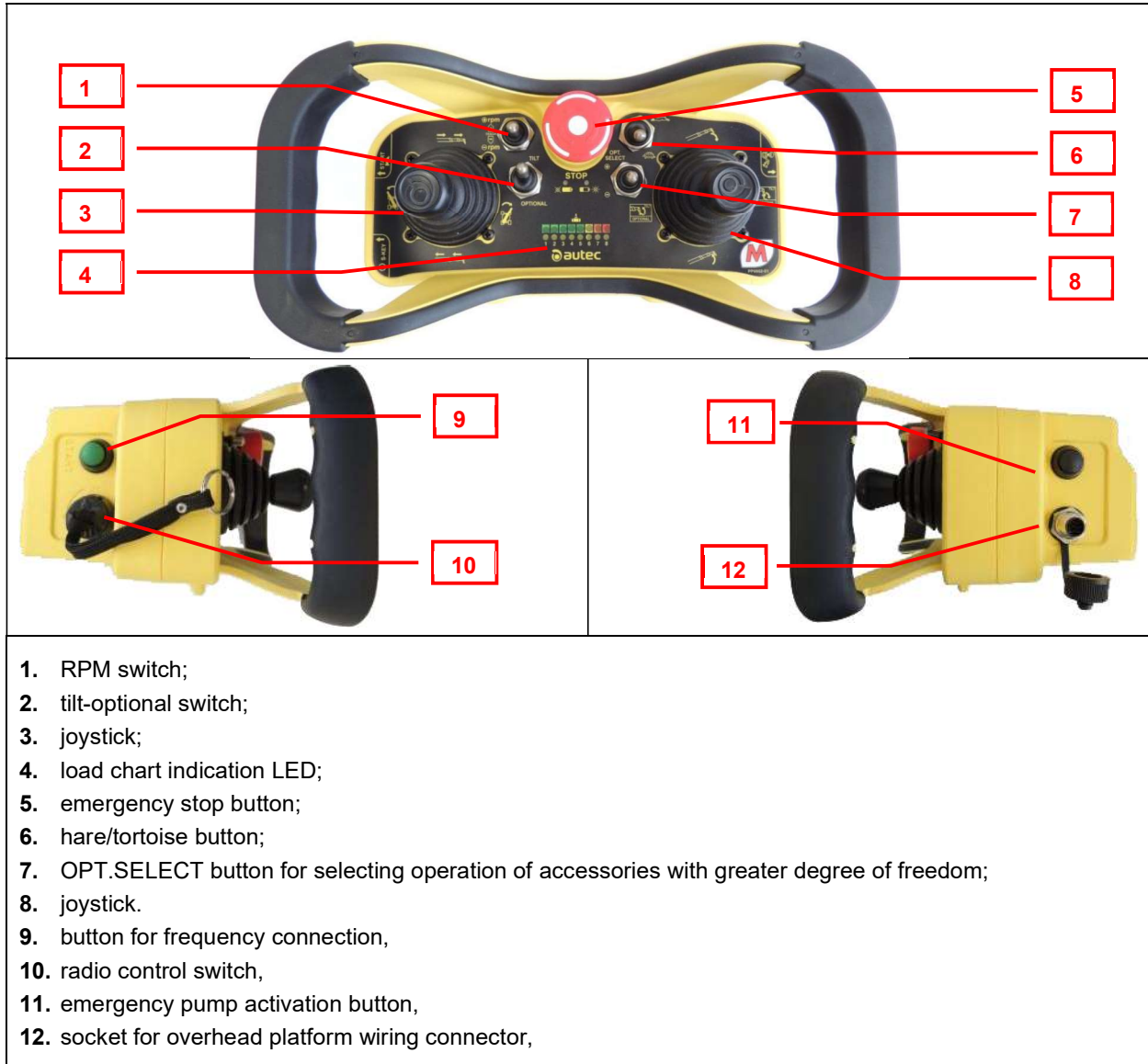
**D1:** rotate the roller forward to move the right fork outwards;

**D2:** rotate the roller backward to move the right fork inwards;

**D1 + Y button:** rotate the roller forward to move the left fork outwards

**D2 + Y button:** rotate the roller backward to move the left fork inwards;

### Controls on the radio control





## Activation procedure for using the radio control panel

When the equipment is already connected to the forklift truck, proceed as follows:

<ul style="list-style-type: none"> <li>✓ start the vehicle and confirm the accessory,</li> <li>✓ position the vehicle on stabilisers.</li> </ul>	
<ul style="list-style-type: none"> <li>✓ make sure that the reverse gear is in NEUTRAL,</li> <li>✓ engage the vehicle's parking brake by pressing the button under the steering wheel,</li> <li>✓ check that the specific indicator lights up.</li> </ul>	 
<ul style="list-style-type: none"> <li>✓ activate the forklift truck connection with the radio control by pressing the key on the "stabilisers page" or "controls page".</li> </ul>	  <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <span>Stabilisers page</span> <span>Controls page</span> </div>
<ul style="list-style-type: none"> <li>✓ turn the radio control on by turning the key on the left side,</li> <li>✓ make sure that the red emergency button is not locked in the safety position: check by turning it clockwise.</li> </ul>	 
<ul style="list-style-type: none"> <li>✓ press the green button (once) for recognition of the radio-control by the system;</li> <li>✓ when the connection has been made the vehicle horn makes a warning sound.</li> </ul>	
<b>After this sequence of operations, the radio-control is operative.</b>	

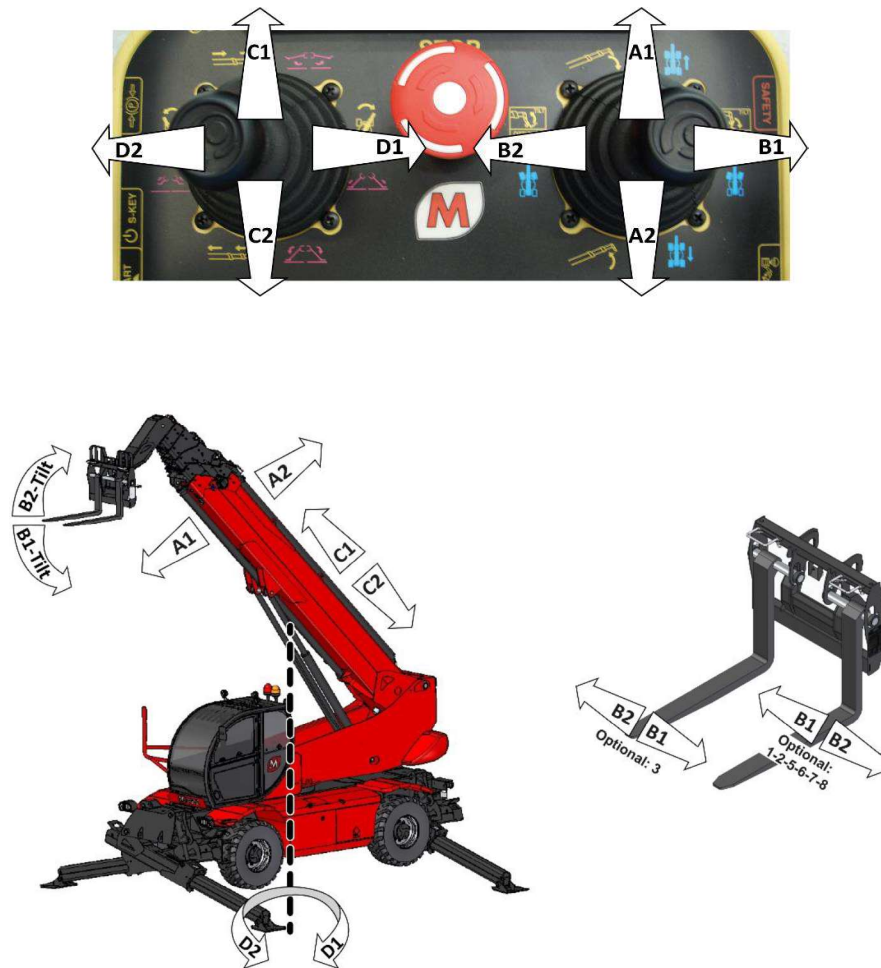
If connection between the radio control and the forklift truck has been interrupted by the red emergency button being pressed (for the vehicle or radio control), reactivate it as follows:

- 1- reset the red mushroom-shaped button by rotating it counter-clockwise,
- 2- press the green radio control button once to reactivate the radio control/forklift truck connection, confirmed by the vehicle horn making a warning sound,
- 3- press the green radio control button again to start the vehicle's I.C. engine, confirmed by the vehicle horn making a warning sound.

**After this sequence of operations, the radio-control is operative.**



## Management of the controls from the radio control



**A1:** move the right joystick forward to lower the telescopic boom;

**A2:** move the right joystick backward to raise the telescopic boom;

**B1 with TILT function:** move the RH joystick to the right to tilt the accessory downwards;

**B2 with TILT function:** move the RH joystick to the right to tilt the accessory upwards;

**C1:** move the left joystick forward to extend the telescopic boom;

**C2:** move the left joystick backward to retract the telescopic boom;

**D1:** move the left joystick to the right to rotate the vehicle's turret clockwise;

**D2:** move the left joystick to the left to rotate the vehicle's turret anticlockwise;

**B1 with Optional 3 function:** move the right joystick to the right to move the right fork to the left;

**B2 with Optional 3 function:** move the right joystick to the left to move the right fork to the right;

**B1 with Optional 1/2/5/6/7/8 function:** move the right joystick to the right to move the left fork to the left;

**B2 with Optional 1/2/5/6/7/8 function:** move the right joystick to the left to move the left fork to the right;

**Program no.4 is disabled.**

**Emergency stop.**

In dangerous conditions, press the red emergency button either inside the vehicle's cab next to the left joystick (**RTH**) or right dashboard (**TH**) and in the centre of the radio control to stop every forklift truck and accessory movement.



RTH



TH



Radio control

To re-enable vehicle/accessory movements, reset the red emergency button by turning it clockwise, then restart the vehicle and/or reconnect the radio control.