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User manual Joystick G90A and G90T



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Introduction

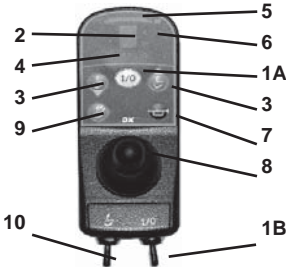
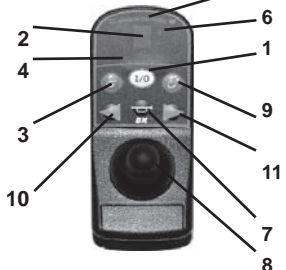
Congratulations on your new joystick G90. It will let you manage your electric wheelchair in a good and safe way.

On the following pages we will examine the opportunities that lie in the joystick.

Enjoy.

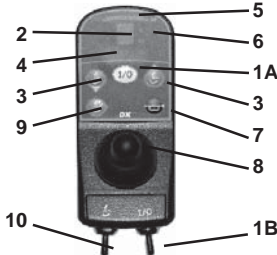
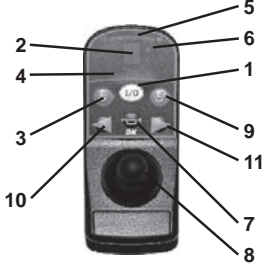


Joystick parts

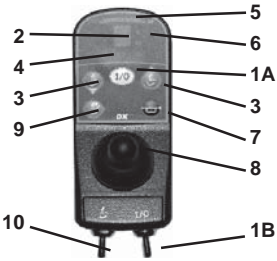
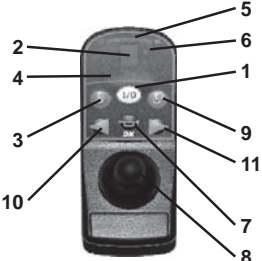
			
Dynamic G90T		Dynamic G90A	
1A	Start/stop button (push button)	1	Start/stop button
1B	Start/stop button (toggle switch)	2	Display
2	Display	3	Select program
3	Gear down/up	4	Display for seat functions
4	Display for seat functions	5	Battery indicator
5	Battery indicator	6	Magnetic lock
6	Magnetic lock	7	Horn
7	Horn	8	Joystick
8	Joystick	9	Seat function/lights, hazard warning lights and indicators
9	Seat function/lights, hazard warning lights and indicators	10	Indicator left/lights
10	Select seat function (toggle switch)	11	Indicator right/hazard warning lights.



Using the G90T and G90A

			
Speed selection with G90T		Speed selection with G90A	
1	<p>To start the scooter: Press button 1A or use toggle switch 1B Wait for the battery indicator to stabilise (3-5 seconds)</p>	1	<p>To start the scooter: Press button 1 and wait for the battery indicator to stabilise (3-5 seconds)</p>
2	<p>Select the maximum speed: Keep pressing button 3 or toggle switch 10 to change the numbers between 1, 2, 3, 4 and 5. 1 is the lowest speed and 5 is the highest. (This may vary. Some scooters have a maximum speed of 3).</p>	2	<p>Select the maximum speed: Keep pressing button 3 to change the numbers between 1, 2, 3, 4 and 5 on the display. Select the speed you want. 1 is the lowest speed and 5 is the highest.</p>
Driving		Driving	
1	<p>Start driving by moving the joystick in the direction you want to travel. The speed depends on how far forward you push the joystick. To brake, return the joystick to the starting position in the centre.</p>	1	<p>Start driving by moving the joystick in the direction you want to travel. The speed depends on how far forward you push the joystick. To brake, return the joystick to the starting position in the centre.</p>








	
<p>2</p> <p>It is important to check the battery indicator regularly to prevent the scooter stopping because of flat batteries.</p>	<p>2</p> <p>It is important to check the battery indicator regularly to prevent the scooter stopping because of flat batteries.</p>

Note!

If you are driving on a sloping surface with poor grip, e.g. gravel or snow, it is important to brake gently to avoid losing control of the scooter. To brake gently: move the joystick to the central position SLOWLY.

Selecting seat functions

A		B		C		D		E	
									
Selecting seat functions with the G90T					Selecting seat functions with the G90A				
A	Left footrest				A	Left footrest			
B	Seat angle (tilt)				B	Seat angle (tilt)			
C	Backrest angle				C	Backrest angle			
D	Seat height				D	Seat height			
E	Right footrest				E	Right footrest			
If A and E are flashing at the same time, you can operate both footrests at once. This depends on the programming.									

Select the icon for the part you want to adjust, then use the joystick to adjust.



Safety check

Daily safety check:

The electronic system has an integrated safety check which runs up to 100 times per minute. To supplement this check, you should carry out the following regular checks.

- Switch off the electronic system (no lights in the display)
- Check if the joystick is bent
- Check if the joystick is damaged in any other way
- Check that it returns to the central position when you release it

If the check reveals any problems, contact a competent service engineer before using the scooter again.

Weekly safety check:

Parking brake: This test must be carried out on a flat surface with at least one metre of free space around the scooter.

- Start the scooter and slowly move the joystick forward. There is a clicking sound. (The scooter may start to move in this setting).
- Immediately release the joystick and listen for the clicking sound, which should occur within one second.



Repeat in all directions.

- Check that the rubber bellows around the joystick is intact. This is important, as the bellows prevent moisture getting into the electronic system.
- Check that the control box is properly secured.



If the check reveals any problems, contact a competent service engineer before using the scooter again.



Troubleshooting the Dynamic

 <p><i>Status light</i></p>	 <p><i>Status light</i></p>
Troubleshooting the G90T and G90A	
Status light flashes with 1 flash per cycle	Switch off the scooter and restart. If this does not work, contact a competent service engineer. (HMC or therapist).
Status light flashes with 2 flashes per cycle and the scooter runs at half speed.	The scooter may be fitted with a speed limiter that halves the speed when the seat is raised. This is not a fault.
Status light flashes with 3 flashes per cycle.	Fault, left motor. Contact a competent service engineer. (HMC or therapist).
Status light flashes with 4 flashes per cycle	Fault, right motor. Contact a competent service engineer. (HMC or therapist).
Status light flashes with 5 flashes per cycle.	Fault, left motor brake. Contact a competent service engineer. (HMC or therapist).
Status light flashes with 6 flashes per cycle	Fault, right motor brake. Contact a competent service engineer. (HMC or therapist).
Status light flashes with 7 flashes per cycle.	The batteries need charging. Or they have a defect.
Status light flashes with 8 flashes per cycle.	The battery voltage is too high.



	
<p>Status light flashes with 9 flashes per cycle.</p>	<p>Electronic fault. Contact a competent service engineer. (HMC or therapist).</p>
<p>Status light flashes with 10 flashes per cycle.</p>	<p>Electronic fault. Contact a competent service engineer. (HMC or therapist).</p>
<p>Status light flashes with 11 flashes per cycle.</p>	<p>The motor has exceeded the maximum voltage, or has come close to exceeding it for longer than the parameter value. Contact a competent service engineer. (HMC or therapist).</p>
<p>Status light flashes with 12 flashes per cycle.</p>	<p>Wrong combination of modules. Contact a competent service engineer. (HMC or therapist).</p>
<p>The scooter runs at half speed or not at all.</p>	<p>If the cause is not a raised seat, this may be a serious fault. Contact a competent service engineer as soon as possible. (HMC or therapist).</p>

Programming

The Dynamic electronic system is programmable so that the driving characteristics can be optimised for individual users. Programming must only be carried out by people trained in Dynamic's control systems. Changing parameters incorrectly can produce driving characteristics that are dangerous for the user.


Note

Mobile phones should not be used very close to the scooter as they generate electromagnetic fields that may affect the electronic system. The electronic system of the scooter itself also generates some electromagnetic fields, which on rare occasions may affect equipment like the alarm systems in shops.

Dynamic's control systems have been tested and meet the requirements of ISO7176/14 and EN12184



Charging



Charging	
1	Plug the cable into the control box on the scooter.
2	Plug the charger into the outlet or switch it on.
3	Use the indicator lights on the charger to check that charging has started.
4	When charging has finished, switch off or unplug the charger, and then remove the charger cable from the control box.

The actual battery indicator on the vehicle will show “full” after charging for a short time. However, the batteries are not fully charged until the indicator on the CHARGER turns green.

Charging while the vehicle is switched on

- The battery indicator will flash during charging.
- After charging, the battery indicator will flash for about 1 minute after the charging cable is unplugged.



Adjusting the height and angle using the joystick:

Switch to the seat functions setting by pressing the red button.

The icon for the left leg support starts flashing, and you can adjust it by moving the joystick up and down.

Move the joystick to the right until the icon for the right leg support starts flashing.

If both icons are flashing, you can adjust both leg supports at once.

Own notes





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