

III. OPERATION

The Q-Logic system allows you to customize the chair by adjusting a variety of programmable parameters. Before making any adjustments, you should understand some basic things about how the system works.

Who's In Charge?

In the basic configuration with only a hand control and power module, the user operates the on/off mode select lever to turn the chair on and off. In a configuration with more than one input device, the input device that powers up the chair is the one in control. The power off command can be issued from any of the input devices. To change the active input device the system must be switched off (any on/off switch) and switched on by the desired input device.

Suppose there is an Attendant Joystick in addition to the hand control, and again it is the user who powers up the chair. The Attendant Joystick is "alive," but in a passive state; its joystick would have no effect. Either the user or the attendant could power off the chair. Similarly, if the attendant powered up the chair, the hand control would be "alive" in a passive state; its joystick would have no effect. As a general rule, regardless of which input devices are connected in the system, the input device that powers up the chair is the one in control.

Turning The System Off

Using an on/off switch is the standard method for turning the system off. Two other methods are possible. If no command is given within the Auto Shutoff interval, the system will power off by itself. Or if the System Lock parameter is enabled (System Settings > Misc. menu), pressing a Mode switch for more than 5 seconds (or selecting the System Lock item in the Aux Menu) turns off the system. If the system is turned off with a Mode switch (or the System Lock item in the Aux Menu), a special procedure is required to turn it back on: activate an on/off switch, give a forward command for at least 3 seconds, then a reverse command for at least 3 seconds.

Stopping

Reducing the drive command to neutral is the standard method of stopping the chair. The chair decelerates in accordance with the programmed deceleration rates (forward, reverse, and turning deceleration rate).

There are also three special types of stop: fast stop, emergency stop, and park brake stop. You will not be able to adjust any of these special deceleration rates.

A fast stop is initiated by moving the joystick in the opposite direction for more than 50% of the active joystick range. Another way of initiating a fast stop is by releasing the joystick to center. Fast stops have a stable deceleration rate about twice that of the normal deceleration rate.

An emergency stop is initiated by a power off command while the chair is driving. The emergency stop deceleration rate is typically set to a high value.

The park brake stop is the most drastic; the motors stop abruptly with an extremely short deceleration ramp. As this stop can only be initiated by the system, it is nothing you can control or adjust.