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Simply mobile.

e-fix[®]

Power add-on drive

Do you know how versatile the e-fix is?



Getting to know the basics...

► The e-fix, the electrical add-on drive for your wheelchair, allows you to cover long distances quickly and easily in your own manual wheelchair. Conversion is a breeze, just swap the hub motored drive wheels, install the battery pack and control unit! Almost all current manual wheelchairs on the market can be retrofitted with the e-fix, and the wheelchair still remains foldable!

The models...

► The e-fix is available in two models: e-fix E25 Basic and e-fix E26 Plus

They virtually look the same but the difference lies within the user's max weight.

Max load for the E25 Basic is 264 lbs.

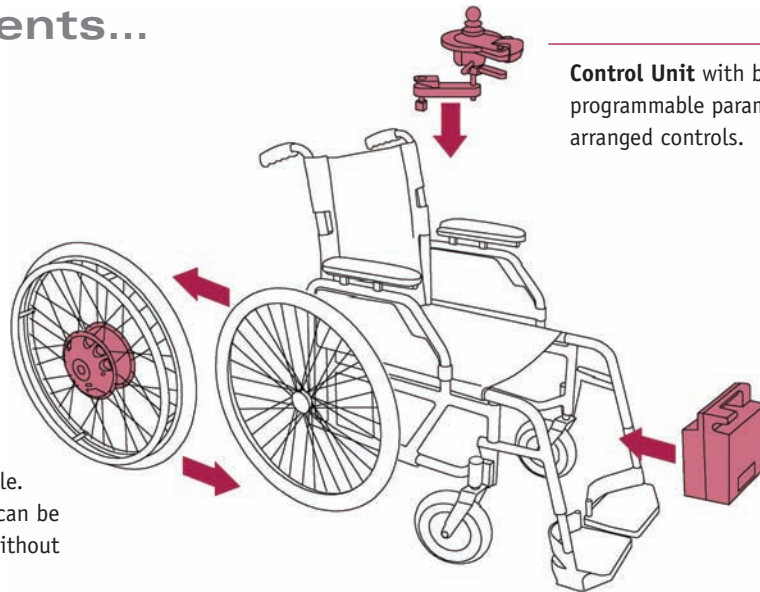
Max load for the E26 Plus is 353 lbs.



Simple to use. More freedom. Convenient technology.

The components...

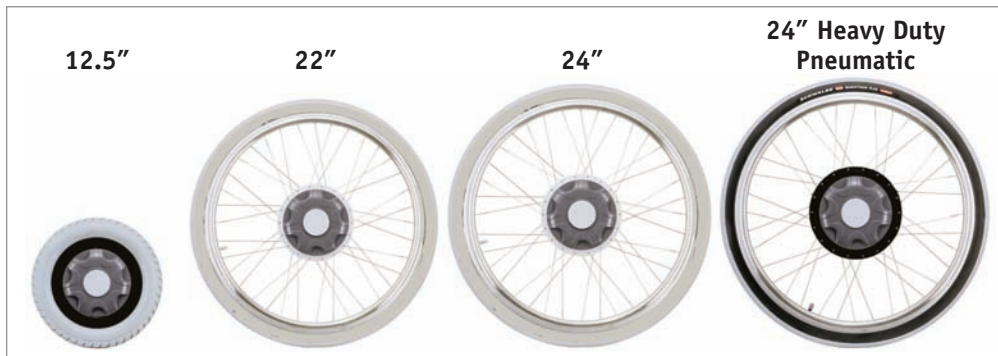
Drive Wheels are easy to attach and easy to remove from wheelchair with quick release axels. Manual wheels are interchangeable. Great for transportation. Wheels can be changed from power to manual without removal as well!



Control Unit with battery status display, programmable parameters, and ergonomically arranged controls.

Battery Pack is suspended under the seat allows a range of up to 15 miles, depending on the model.

The features...



Drive Wheels

- Multiple wheels sizes available: 12.5", 22" or 24"
- Hub wheel contains the motor, brakes, clutch and gears
- Wheels are quick release and can also be disengaged for manual propulsion



Joystick Control Unit

- Control dial adjusts speed
- LCD display with backlight shows battery capacity and diagnostic codes
- 14 programmable parameters - Key activated, no separate programmer required!



Battery Charger

- Automatic charge and loads electronics
- Control indicator lights
- Automatically adapts to different input voltages



Battery Pack

- 2 sizes available depending on e-fix model
- Approximately 10-15 miles per charge depending on model and terrain/weight of occupant
- Easy to remove. Two mounting options are available: metal tray or velcro pouch
- Durable plastic housing with integrated carry handle



Brackets and Power Interface Unit

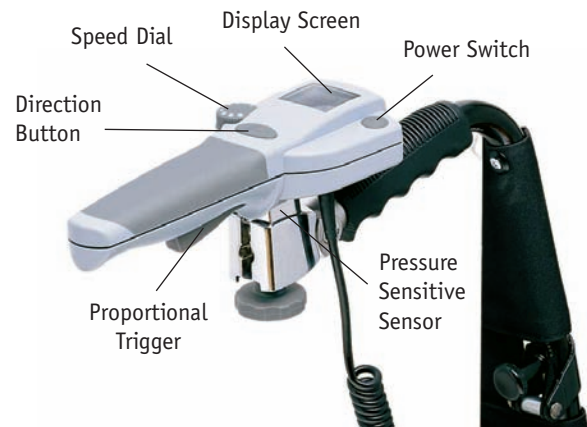
- Brackets available for almost any wheelchair and are fairly easy to install
- Power is connected when wheel is plugged into axle mounted brackets
- Power interface unit is integrated into the battery pack

e-fix Intuitive Attendant Control



The e-fix versatility starts with the Intuitive Attendant Controlled System...

► There is no need for a heavy, bulky power wheelchair. E-fix allows you to have a lightweight power wheelchair that is easy for caretakers to manage and still remains transportable. The e-fix user can still independently drive by using the standard joystick controller, however, when attendant assistance is necessary, the caretaker can override the driving by using the Intuitive Attendant Controller.



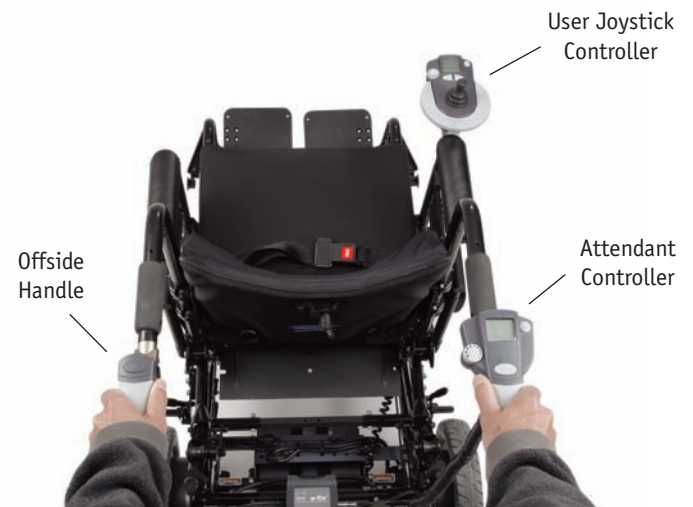
Features and benefits of the e-fix Intuitive Attendant Control:

- On/Off Power Switch
- Speed Dial
- Forward/Reverse Direction Button
- LCD Display Screen
- Proportional Trigger for Powered Movement
- Pressure Sensitive Handle

The benefit of having the pressure sensitive handle is that it moves in the same direction of your push. It power-turns the wheelchair to the direction you want to go, making it a true attendant controlled powered wheelchair that intuitively responds.

E-fix Intuitive Attendant Control is ideal for:

- Training a new power wheelchair user
- Caretakers having difficulty pushing
- Travelling on uneven terrain
- Heavy patients
- Cognitively impaired
- TBI patient (Traumatic Brain Injury)
- Push and brake assist
- Adults or pediatrics



► The e-fix Intuitive Attendant Control can be used with any manual wheelchair but works very well with tilt-in-space wheelchairs. Due to the complexity of installation we suggest all installations to be done by Frank Mobility Systems. Please note the **Opti-Box** accessory is required for Intuitive Attendant Control application. Opti-Box is pictured at right.

e-fix with ASL Specialty Controls



The versatility continues with the addition of ASL Specialty Drive Controls...

► The e-fix power add-on system is compatible with ASL Specialty Drive Control packages. This allows you to use the Head or Tray Arrays, Fiber Optics and Emergency Stop Switches to control the e-fix. Now your most difficult driving needs can be solved using these packages.

ASL Specialty Controls Systems

The following ASL Specialty Controls are adaptable with the e-fix:

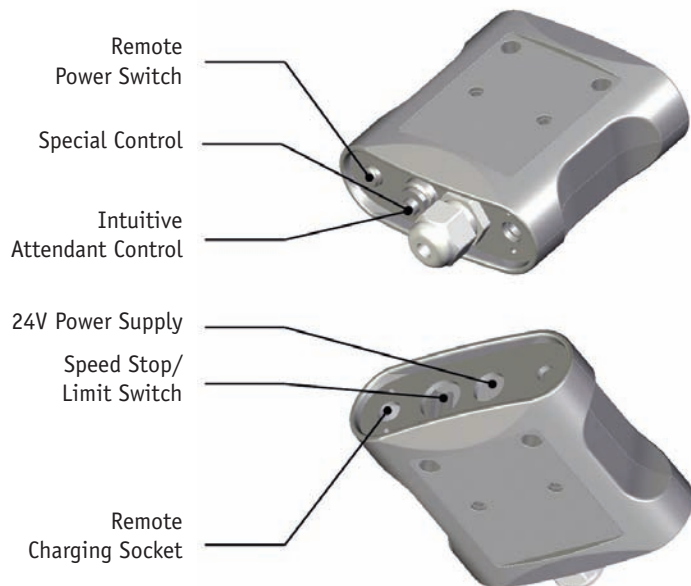
- ASL105EFIX – Head Array
- ASL106EFIX – Tray Array
- ASL107EFIX – Fiber Optics
- ASL108EFIX – Fiber Optics
- ASL504EFIX – Emergency Stop Switch*

*Opti-Box required.

When purchasing an ASL Drive Control Package for e-fix please contact ASL.



The Opti-Box enables you to have:





The versatility also comes in a combo package...

The e-fix - Freedom 2 Combo

► Frank Mobility can provide you with a package of a wheelchair and an e-fix – the e-fix and the Freedom 2 by Freedom Designs, combined as a single source invoice! Both E-fix and the Freedom 2 wheelchair have been tested by the University of Michigan Transportation Research Institute and passed the WC-19 standards.



Tested for users' safety!

Freedom 2

► The Freedom 2 is a lightweight sling seat and sling back folding frame. The Freedom 2 has depth adjustable sling back with 4" of depth adjustment available. The Freedom 2 achieves this additional depth growth with the optional front frame section. The Freedom 2 can also accept seating and positioning systems.

Freedom 2 Kids

► The Freedom is a streamlined folding frame that offers a sling seat and sling back, or has the ability to accept a "full seating system". The Freedom 2 Kids features a "depth adjustable" frame for clients who only need a sling back, but need a lightweight depth growth option. Smaller caster plates, cross-braces and axle receivers streamline the look while maintaining the function.

Freedom 2 Technical Specs

Frame Widths 11" - 18"

Frame Length Regular 15" - 19"; Long 17" - 21"

Sling Length Regular 15" - 19"; Long 17" - 21"

Back Canes Short 19" H; Medium 23" H; Tall 26" H

Weight Limit 250 lbs

Transportation Option
Weight Limit 220 lbs

Frame Weight 16.5" frame weighted with hangers and wheels

Freedom 2 Kids Technical Specs

Frame Widths 11" - 18"

Frame Length Regular 10" - 14"; Long 13" - 17"

Sling Length Regular 10" - 14"; Long 13" - 17"

Back Canes Short 19" H; Medium 23" H; Tall 26" H

Weight Limit 250 lbs

Transportation Option
Weight Limit 220 lbs

Frame Weight 16.5" frame weighted with hangers and wheels

Many features are standard with the Freedom 2 and Freedom 2 Kids such as: angle adjustment foot-plates, latch style swing away hangers, a wide array of vibrant powder coated framed colors. Please note however, Hub Lock accessory is not compatible with the e-fix Freedom 2 Combo. Standard wheel push locks must be used. Pictured above, Frontal impact of e-fix installed on Freedom 2 manual wheelchair secured by a Surrogate fourpoint, Strap-Type tiedown and loaded with a Hybrid III small female ATD weighted to 130 lbs restrained by a Surrogate Vehicle-Anchored three-point belt. Passes WC-19 Standards.

The versatility continues...

► Did you know that the e-fix can power manual standers, prone cars and just about anything you need powered? For additional applications, please consult your FMS Representative at 888-426-8581 or info@FrankMobility.com.

The FAQ...

How fast does the e-fix travel?

You can continuously vary the maximum speed of the e-fix between .50 mph to 4 mph, allowing you to find your optimum travelling speed safely. In addition, there are 9 driving settings in the programming feature of the e-fix so you can personalize the e-fix to your users' changing needs.

How far can I travel on a single charge of the e-fix?

Depending on the weight of the person, the terrain, the temperature and the program settings, the e-fix can travel up to 10 miles per charge using the standard 12ah battery. You can increase the range up to 18 miles with the optional 17ah battery.

How steep a ramp or gradient can the e-fix handle?

The e-fix can manage gradients and slopes of up to 20%, depending on the wheelchair settings, user's weight and terrain. It is essential to follow the instructions of the wheelchair manufacturer in this case.

How much does the e-fix weigh?

Drive Wheels	17 lbs each
Battery 12ah	9 lbs
Control Unit	1 lb
Interface	3 lbs
TOTAL	58 lbs

Can you travel with the e-fix by car or air?

Yes! The modular design of the e-fix makes this possible. All e-fix components can be easily removed from the wheelchair without needing tools. Your wheelchair can still be folded up and placed in the trunk of a car. The e-fix batteries are classified as UN Nr. 2800 batteries, gel non-spillable, electric storage. According to IATA and US DOT, they are considered non-dangerous goods for transportation.

What accessories are available for the e-fix?

- Multiple Joystick Ball Sizes
- Swing Away Joystick Mount
- Extended Snap-on Hand Rest
- Acrylic Tray for Joystick
- Attendant Mount for Standard Joystick
- Opti-Box
- Intuitive Attendant Controller
- Speed Stop/Speed Limit Switch
- External On/Off
- Remote Charging Socket
- Spare Batteries
- High Capacity 17ah Battery
- Battery Tray
- Spoke Covers
- Anti-Tip Supports

Freedom 2 Caster and Wheel Combinations with Floor to Seat Rail Height

Caster Rail	Wheel Size	Floor to Seat Rail (Front)	Floor to Seat Rail (Rear)	Fork Size	Arc Over Rail
3"	20"	15.5"	15.25"	Short	5.5"
3"	22"	15.5"	15.25"	Short	7.25"
3"	20"	17.5"	17"	Long	3.25"
3"	22"	17.25"	17"	Long	5.25"
5"	20"	17.5"	17.25"	Long	3.25"
5"	22"	17.5"	17.25"	Long	5.5"
5"	24"	17.5"	17.25"	Long	7"
6"	20"	18"	17.75"	Long	2.5'
6"	22"	18"	17.75"	Long	4.75"
6"	24"	18"	17.75"	Long	6.5"



Freedom Designs, Inc. Frame Color Guide



Actual powder coating colors may vary due to limitations of paper/ink color sample, heat and light. *New colors.



Frank Mobility Systems, Inc.
US Distributor of the products
Manufactured by Ulrich Alber, GmbH

Freedom 2 Wheelchair manufactured by
Freedom Designs in Simi Valley, CA
More info: www.FreedomDesigns.com

ASL Special Control Packages are available
through Adaptive Switch Laboratories, Inc.
www.asl-inc.com