

Customer Information



powered by **HEINZMANN®**

Retrofit Kit Type A:

Electric Assist possible with or without pedalling (e-bike) consisting:

- 36V motor
- Twist-grip
- Battery
- Battery soft case
- Control unit
- Battery charger
- Luggage carrier
- Connection cable (front wheel motor kits only)

Retrofit Kit Type B:

Electric Assist only possible with pedalling (pedelec) consisting:

- 36V motor
- Twist-grip
- Pedal sensor
- Battery box
- Battery soft case
- Control unit
- Battery charger
- Luggage carrier
- Connection cable (front wheel motor kits only)

Retrofit Kit

Digital System

The new digital system incorporates several new features to improve ride and economy.

The digital twist grip now includes a battery status display and push-buttons for on/off and an “ECO” mode.

Battery status LEDs give a true reading of remaining battery capacity and include a fault display in the event of a failed or incorrectly connected system component.

ECO mode allows the user to limit the power delivered to the motor, whilst attaining the full speed range.

This allows the rider to extend battery range when high power operation is not required.

Also, for the pedelec versions, the start-assistance has an increased performance to enable standing starts to be fully aided for heavy load carrying or steep inclines. Start assistance for the pedelec version powers the rider to 3.5mph (6 km/h) without having to pedal. Above this speed motor assistance will only continue to be provided whilst pedalling.

Analogue System

The existing analogue system will continue to be offered for a period in kit form and as individual components. This offers a slightly cheaper alternative to the digital system and with the option of thumb throttle. The analogue system is fully compatible with the Li-Ion batteries but without the additional digital features.

Lithium Battery Technology

Two new 36V batteries have been introduced to replace the older NiCd and NiMH versions. The new batteries are based on Li-Ion technology and are available in 5.2Ah and 9.6Ah versions, weighing in at 2.3kg and 4kg respectively. Range in pedelec mode is estimated at 19m (30km) for the 5.2Ah version and 32m (50km) for the 9.6Ah version (Based on average pedalling and 100kg total weight including rider).

Kits come with a single battery although additional batteries can be ordered to either double the range or allow a quick turnaround following the end of a ride.

These Li-Ion batteries incorporate the best in battery technology and quality and have undergone extensive testing alongside the Heinzmann drive system offering lower weight, increased range and greater flexibility in terms of charging requirements compared with their predecessors.

The batteries include their own battery management systems and charge status is shown locally on the battery case as well as on the digital twist grip.

The batteries are designed to fit into a removable, weatherproof, soft fabric protection case with locking facilities and may be fitted to either side of the luggage carrier. Battery charging may be carried out on or off the bike. Charging times for the 5.2Ah and 9.6Ah are around 6 hours and 10 hours respectively.

For existing users of Heinzmann kits with 36V NiCd battery technology, upgrading to Li-Ion batteries is possible without changes to existing drive system. For existing users of Heinzmann kits with 36V NiMH battery technology, upgrading to Li-Ion is possible but will require controller modification.

Weight Retrofit kit: approx. 7kg total weight with 1 battery (5.2Ah)
approx. 9.3kg total weight with 2 battery boxes (5.2Ah)
motor 3.5kg, Battery box (5.2Ah) 2.3kg

Retrofit Kit

Notes on Components Used in Standard Kits

Motors:

Kits may be made up of the following motor types:

Front Hub :

870-00-751-6022 – 43Nm, 25A, 200W (S1continuous), synthetic gears, 12% climbing, 14mph ¹

870-00-751-6622 – 50Nm, 28A, 200W (S1continuous), steel gears, 15% climbing, 13mph ¹

870-00-751-1122 – 53Nm, 33A, 200W (S1continuous), steel gears, 15% climbing, 15mph ³

870-00-751-4930 – 36Nm, 33A, 500W (S2 duty), synthetic gears, 9% climbing, 21mph ²

Rear Hub (hill climbing ability and speed based on 26" wheels):

870-00-753-6022– 43Nm, 25A, 200W (S1 continuous), synthetic gears, 12% climbing, 14mph ¹

870-00-753-6622– 50Nm, 28A, 200W (S1 continuous), steel gears, 15% climbing, 13mph ¹

870-00-753-4930 – 36Nm, 33A, 500W (S2 duty), steel gears, 9% climbing, 21mph ²

NOTE : Hill climbing ability and speed based on 26" wheels – smaller wheels will give better climbing ability but lower top speed; larger wheels will give lower climbing ability but higher top speed.

1. UK road legal
2. Not UK road legal
3. UK road legal up to 26" wheels

Other motor types are available, pricing on request.

NOTE : Not all motors and kits are legal in all countries regions. It is the user's responsibility to ensure that they are complying with local and national regulations and legislation for operating electrically assisted vehicles and pedal cycles.

Throttles:

The digital system is only available with twist grip throttle. Thumb throttles are only available with analogue systems.

Controllers:

Analogue (the technology used to date) control units are still available and the NiCd versions are compatible with Li-Ion batteries. See note above under Lithium Battery Technology for compatibility with analogue NiMH control units.

NOTE : Analogue components are not compatible with the digital system. If in doubt consult retailer.

Retail Price List – Digital Retrofit Kits

Retrofit Kit	Characteristics	Retail Prices £
	DIGITAL KITS	
Type A – e-bike	Motor (standard), digital twist-grip, 1 x battery, 1 x battery case, digital control unit, charger, luggage carrier, connection cable (front wheel motor kits)	
for front wheel	Li-Ion 5.2Ah 36V	1,155.00
for front wheel	Li-Ion 9.6Ah 36V	1,425.00
for rear wheel	Li-Ion 5.2Ah 36V	1,161.00
for rear wheel	Li-Ion 9.6Ah 36V	1,433.00
Type B - pedelec	Motor (standard), digital twist-grip, digital sensor, battery, battery case, digital control unit , charger, luggage carrier, connection cable (front wheel motor kits)	
for front wheel	Li-Ion 5.2Ah 36V	1,272.00
for front wheel	Li-Ion 9.6Ah 36V	1,544.00
for rear wheel	Li-Ion 5.2Ah 36V	1,280.00
for rear wheel	Li-Ion 9.6Ah 36V	1,550.00
	ANALOGUE KITS (excluding battery/charger)	
	Motor (standard), twist-grip, control unit, luggage carrier, connection cable (front wheel motor kits)	
for front wheel	E-bike	762.00
for front wheel	Pedelec (inc pedal sensor)	879.00
for rear wheel	E-bike	770.00
for rear wheel	Pedelec (inc pedal sensor)	887.00
Prices are in UK Sterling including VAT, ex-works, packing and delivery not included.		
Prices valid from 04.03.2010, subject to change without notice. Errors and omissions excepted.		

Price List - Individual Components

Article	Characteristics	Suggested Retail Prices £ inc UK VAT
Motor 24V/36V	Standard types - for front wheel with connector for use with Connection Cable – see below	330.00
	Standard types - for rear wheel with Neutrik connector for direct connection into control unit.	359.00
Special Motor	Motors not listed here	POA
Spoking of motor	26" + 28" double wall rim	82.00
Digital Twist-grip	On/off push button, ECO mode push button, Battery status LEDs. With cable (2.1m) and plug	63.00
Analogue Twist Grip/Thumb Shifter	On/off switch. With cable (1.8m) and plug.	63.00
Digital Pedal Sensor	With cable (0.65m), sensor ring and fitting kit	117.00
Analogue Pedal Sensor	With cable (0.65m), sensor ring and fitting kit	117.00
Digital Control Unit	In aluminium case with connectors prewired.	224.00
Analogue Control Unit	In aluminium case with connectors prewired.	224.00
Battery Box 5.2Ah	Li-Ion 36V 5.2Ah; charge status LEDs; (case extra)	339.00
Battery Box 9.6Ah	Li-Ion 36V 9.6Ah; charge status LEDs; (case extra)	595.00
Battery case	Weatherproof , soft fabric case	56.00
Li-Ion Battery Power Supply	With cables for connection to battery and 230V mains (UK socket).	54.00
Luggage carrier	To fix battery and control unit	69.00
Connection cable (1.95m)	Between front wheel motor and control unit.	23.00
NiMH /NiCd Battery Charger	Mains charger to suit NiMH or NiCd 36V battery (While stocks last)	130.00
<p>Prices are in UK Sterling including VAT, ex-works, packing not included. Prices valid from 04.03.2010, subject to change without notice. Errors and omissions excepted.</p>		