

EZ ELECTRIC POWER STEERING

PRE-WAR SYSTEMS

(VERSION 1.0 – DEC 2023)





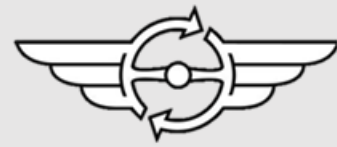
OUR SPECIALISATION

EZ Electric Power Steering started developing electric power steering for classic cars in 2005. In nineteen years, EZ has built power steering columns for about 200 different car types. Many of these are now available from stock and - with accompanying installation instructions - can be installed by most mechanics within a day.

Version C1.0

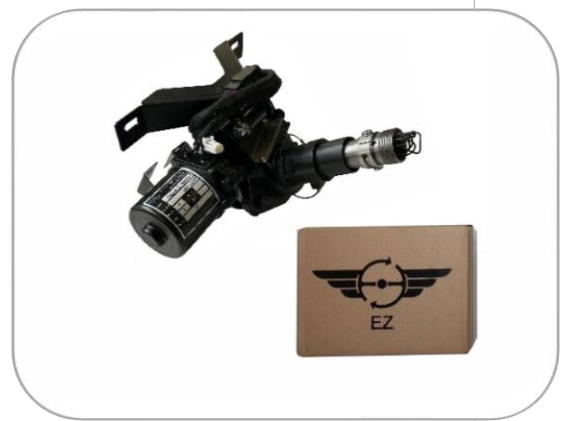
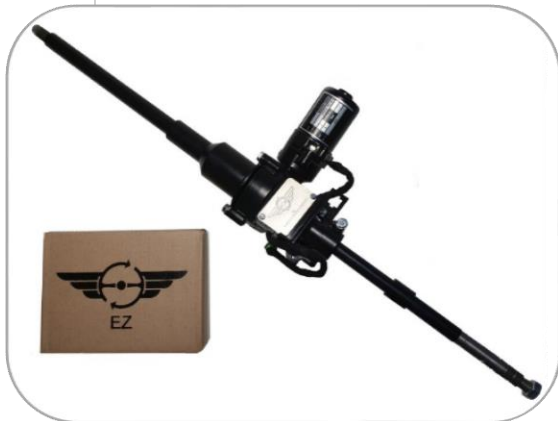
Date 27-12-2023





EVERYTHING BESPOKE!

During this product development, there were of course challenges. Where some classics have a very simple steering rack (e.g, *BMW2002* (left picture)), other conversions are more complicated (e.g, *Jaguar E-type* (right picture)).



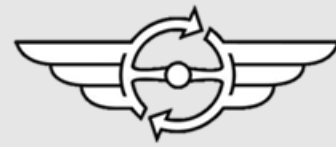
If the wiring of the horn and/or indicator, for example, runs through the steering shaft, it must be routed around the EZ unit via a spring loaded contacts. With a switch rod along the column, we use a U-shaped rod to bypass the motor.

For cars with different voltages (6V, 24V) or cars with a positive ground, EZ Electric Power Steering supplies separate wire sets, converters or smaller batteries. The EZ Electric Power Steering kits are always load dependent but often use additional speed input by means of speed sensors in the speed cable or GPS modules.

MOTOR SPORT

We regularly get requests for rally cars. The steering of these cars is subjected to extreme loads. Naturally, we have adapted our power steering to this. For this niche market, we have developed additional adjustment options with integrated cooling for the electric motor and control unit.



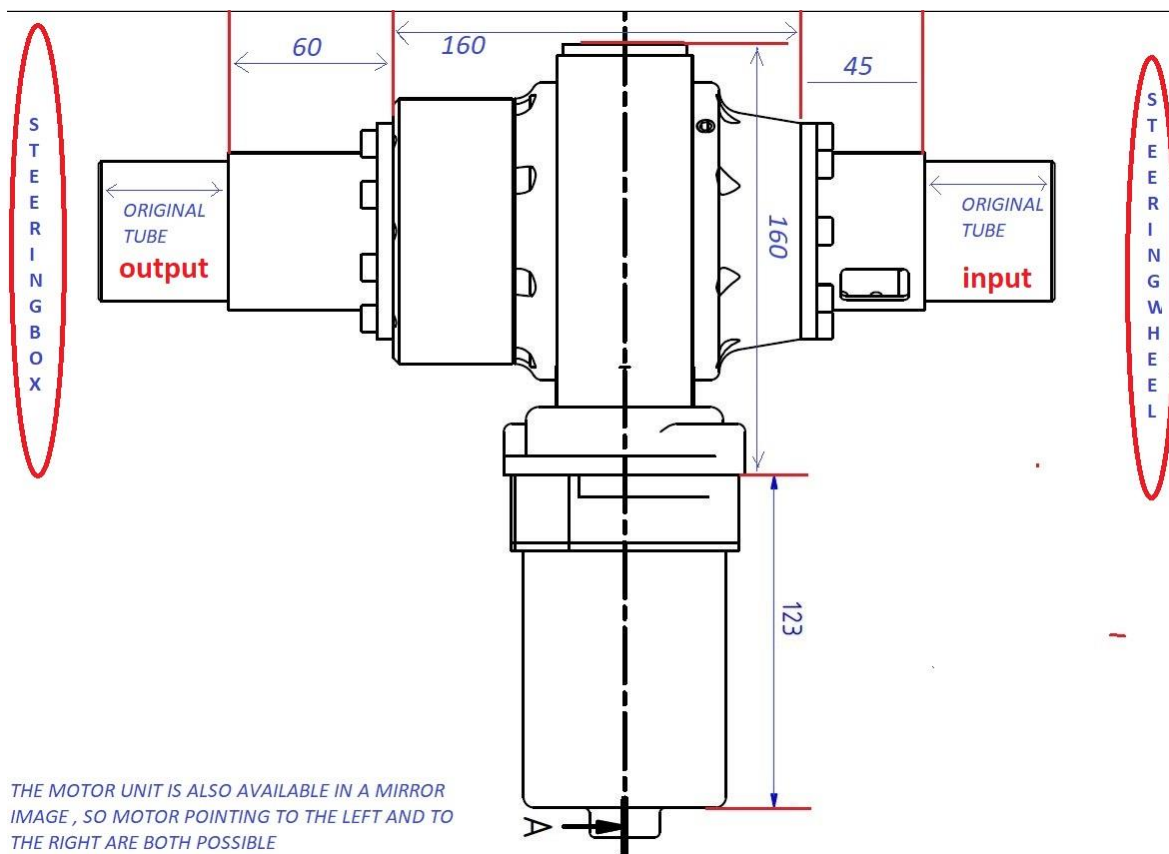


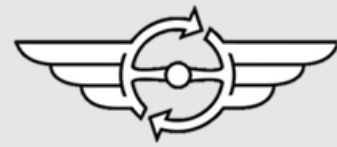
PRE-WAR

We are proud to announce that one of our last 'obstacles' has also been overcome: EZ electric power steering for pre-war vehicles while retaining all steering functions.

In many pre-war vehicles, mechanical controls (for throttle, pre-ignition, damping, lighting or the fuel mixture, among others) run through the steering shaft. These functions are controlled by a "stator tube" that keeps the controls stationary while the steering wheel turns. In this stator tube, often three other tubes rotate for the remaining controls.

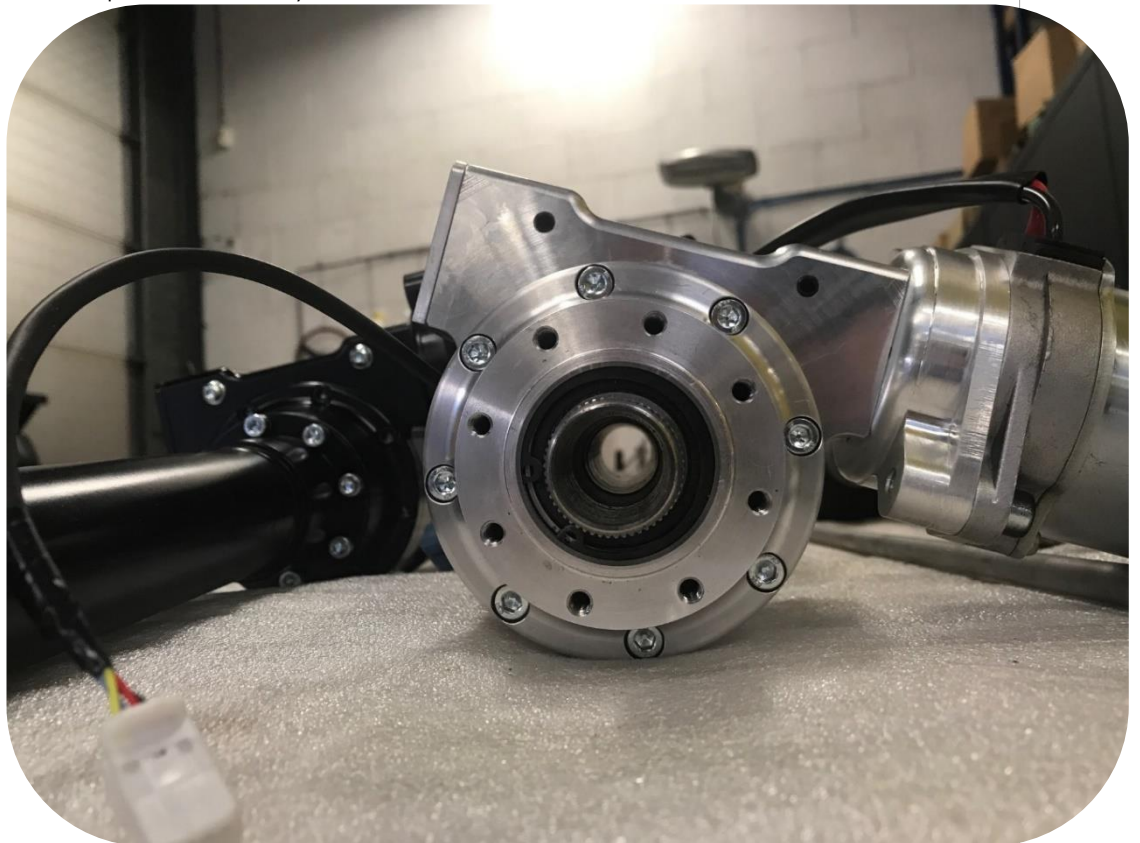
To build electric power steering into the column, we need a column with a hollow has. It was therefore necessary to develop a new system. However, this is not only applicable to pre-war models, but also to younger cars with a hollow steering shaft.





HOW DOES A PRE-WAR SYSTEM WORK?

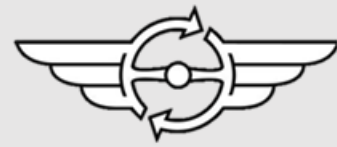
It works just like our other EZ power steering kits. This system delivers around 70 Nm of torque. This amounts to an extra "strong arm" that helps with steering and ensures comfortable and good manoeuvring at low speeds such as parking. Thanks to the speed sensor, the power steering decreases at higher speeds to ensure optimum safety.



The system can be supplied as a kit with adapters that allow mounting the unit in the original steering column. For several models, we supply a complete replacement column. In most cases, it is possible to restore the original steering system to its original condition.

For conversion to electric power steering, the steering box must obviously be in good condition. We check whether this is the case, and if necessary, we also offer an overhaul service.

Currently, we have already fitted over 130 vehicles with this new pre-war system. Among them are Vintage and Derby Bentley models, the Rolls Royce Phantom, the Cadillac V16, Packards, Cords, Lagondas, the Alvis Speed 20 and 25 and the Mercedes 540 K.



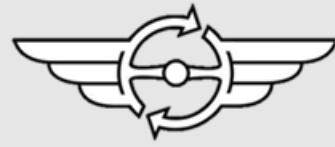
PARTS

The set consists of the engine unit with male splines (inside \varnothing 23 mm), 2 female adapters (outside inside \varnothing 35 mm), flanges for mounting the steering tube and/or engine suspension and the corresponding wiring kit.



The parts can be supplied fully customised if clear photos and/or sketches are provided. Moreover, in many cases the set can be fitted without removing the entire steering column.

An installation manual for these units is currently under development. For more information, please email workshop@ezpowersteering.nl



EXAMPLES OF INSTALLED COLUMNS WITH EZ ELECTRIC POWER STEERING.

