# 60903 Marklin High-Efficiency Propulsion Conversion Kit

**Brand:** MARKLIN
**Product Code:** 60903_Märklin
**Availability:** 1

## Price: Fr. 139.52

**Ex Tax: Fr. 129.06**

### Short Description

60903 High-Efficiency Propulsion Conversion Kit

### Description

This kit consists of a locomotive decoder, a powerful 5-pole motor, and hardware for converting specific older Märklin H0 locomotives with the smaller size flat commutator motor to digital high-efficiency propulsion. The electronic circuit has 4 controllable functions (headlights from the "function" button, smoke generator and Telex couplers, for example, from "f1" and "f2", minimal setting for the acceleration and braking delay from "f4"). The Control Unit (item no. 6021) must be used as the central unit to control functions "f1", "f2", and "f4". The decoder in this kit has adjustable maximum speed, adjustable acceleration and braking delay. 80 digital addresses can be set. The functions "function" and "f1" are turned on in conventional operation with AC power. Information about the 60904 and 60903 Products: We differentiate roughly 2 different types of motors among the universal current motors used with Märklin H0: The newer drum-style commutator motor and the flat commutator motor that used to be the standard motor. The easiest way to tell the two types of motors apart is by the type of brushes they use. Drum-style commutator motors have 2 carbon brushes, while the flat commutator motor has a carbon brush and a copper mesh brush (spare part number 600300). The familiar 60901 conversion kit can be used for drum-style motors. With the flat commutator motor there are a number of variations due to different armature diameters and brush plates. The 60904 or 60903 conversion

kit can therefore only be used for certain models.

**Specifications**

| The model | |
|---|---|
| Digital command system | Marklin (Motorola) |
| Suitable for | Older Marklin locomotives with smaller size flat commutator motor |