

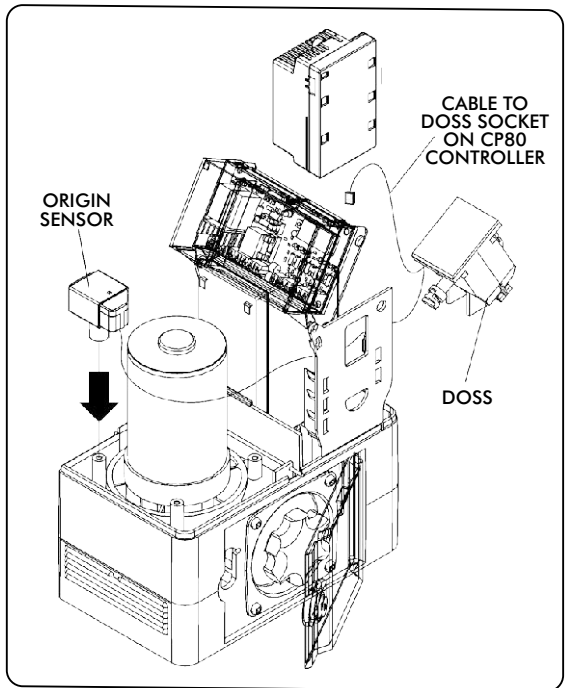
Instruction Sheet for installation of Gate Referenced origin for D5 version 2

This sheet describes how to retro-fit a gate referenced origin kit to the older Version 1, D5 sliding gate motors. Please refer to the figures on page 4.

NB: This modification can only be performed on D5 motors with serial numbers greater than 097 0 3333.

1. MECHANICAL

- 1.1. Switch off all power to motor. Disconnect battery.
- 1.2. Remove old DOSS from unit ensuring that coupling piece FIG.1 is not lost. Remove DOSS cable from CP80 controller card.
- 1.3. Re-install new DOSS with new cable. Before refitting DOSS ensure coupling piece is fitted as shown in FIG. 2
- 1.4. Plug origin sensor firmly onto the gearbox as shown below.
- 1.5. Plug DOSS cable onto CP80 controller, DOSS socket as shown in FIG. 3.
- 1.6. Remove old PIC micro-controller IC from CP80 controller and replace with new micro-controller, taking care to ensure IC is correctly oriented as shown in FIG. 3.
- 1.7. Fit origin marker onto the rack which is mounted on the gate. Ensure that the gate is closed.



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- 1.7. Fit origin marker onto the rack which is mounted on the gate. Ensure that the gate is closed.
 - 1.7.1 Option 1 RAZ RACK
 - 17.1.1 Mount the marker at a distance of at least 500mm from the centre-line of the origin sensor ensuring gate is in the fully closed position, as shown in FIG. 4.
 - 17.1.2 Slide marker forwards or backwards to ensure that gap between edge of marker & motor cover is between 3 and 10mm (See FIG. 5).
 - 1.7.2 Option 2 - STEEL RACK
 - 1.7.2.1 Weld the origin marker bracket to the rack with the centre-line of the bracket at least 500mm from the origin sensor (similar to FIG. 4).
 - 1.7.2.2 Affix the origin marker onto the bracket using the fasteners provided. Adjust the marker forwards or backwards to get the

correct gap as shown for RAZ™ rack. (See FIG. 5)

- 1.8 NB: Fit adequate end stops to both ends to the gate, because the gate will strike the endstops during the setup routine which follows.

2. SET UP ROUTINE

NB: PROGRAMME THE CP80 CONTROLLER TO FACTORY DEFAULT BEFORE SETTING LIMITS:

- 2.1 Push gate manually to the halfway position and re-engage the manual release.
- 2.2 Check motor polarity e.g. if gate closes from right to left, then the motor wire sequence is first the black wire and then the blue wire.
- 2.3 Get into programme mode i.e all power off, SET link on & then power back on. Ensure battery is connected.
- 2.4 Press & hold TEST pushbutton until LED L1 flashes once and then release TEST pushbutton.
- 2.5 Press TEST pushbutton again until STATUS LED illuminates.
- 2.6 On releasing the TEST pushbutton, the gate will go into the following, fully automatic sequence: -
 - 2.6.1 Start to OPEN at a crawl speed.
 - 2.6.2 On striking the GATE OPEN end stop it will stop and reverse (i.e it will start closing at crawl speed).
 - 2.6.3 On striking the GATE CLOSED end stop it will again stop, and reverse (i.e.. start opening). The gate will now run at full speed until it passes the ORIGIN MARKER where it will slow down to crawl speed until it hits the end stop.
 - 2.6.4 On striking the GATE OPEN end stop it will stop and reverse, running at full speed.
 - 2.6.5 On passing the ORIGIN MARKER the gate slows down to crawl speed, and continues to run until it hits the GATE CLOSED end stop.

