

LUDO MCGURK TRANSPORT EQUIPMENT LTD.

SPECIALIST ELECTRICAL & ELECTRONIC VEHICLE EQUIPMENT

ARCING PINS – THE AUTO-EJECT INTERNAL CIRCUIT BREAKER SWITCH

All types of Kussmaul Auto-Ejects incorporate a circuit breaker switch which is coupled to the eject mechanism, and the purpose of this is to prevent arcing at the pins when connecting or ejecting the connector.

This is the same as the switch on your wall sockets at home; arcing occurs if the switch is not to “off” before the plug is removed, and again if it is not to “off” before you plug in.

Thus, when the line connector is applied to the Auto-Eject on the vehicle, there is no transfer of current until the connector is pushed all the way into its receptacle.

When the connector is ejected, the circuit is similarly broken before the connector leaves the pins.

If the connector is removed by hand, this switch is inoperative and arcing can occur, and similarly connection to the Auto-Eject that has not gone through the eject cycle lacks the benefit given by this switching.

The purpose of this is always to prevent connector and pin wear through the erosion caused by arcing, and thus give much greater connector & pin life.

© Copyright Ludo McGurk Transport Equipment Ltd

E&OE

Unless explicitly stated otherwise, all rights including those in copyright in the content of this paper are owned by or controlled for these purposes by Ludo McGurk Transport Equipment Ltd.

Except as otherwise expressly permitted under copyright law or Ludo McGurk Transport Equipment Ltd's Terms of Use, the content of this paper may not be copied, reproduced, republished, downloaded, posted, broadcast or transmitted in any way without first obtaining Ludo McGurk Transport Equipment Ltd's written permission.

**DIRECTORS: L.F. MCGURK (MANAGING) T.MOORE MEng MIET (TECHNICAL) M. MCGURK (Co. SECRETARY) REG No. 0466853
BANK: ROYAL BANK OF SCOTLAND ACCT: 10099819 SORT CODE: 16-34-24 VAT REG: GB511 5277 73**