

ELECTRICAL DOOR SYSTEM TESTING & FAULT FINDING

Mellors – Strata & Maxima RH Single Glider with DNCE DRIVE

All tests should be undertaken with the door system correctly installed. The engine should be running to provide full electrical power. Conduct the following test and use the fault-finding charts where applicable if a fault is detected. Please note that all tests must be conducted on a stationary vehicle.

- Open and close the doors using the drivers controls (push buttons on console)
- Remove handbrake and try to open doors from the drivers controls. If a handbrake interlock is fitted, the doors should not open.
- Re-apply the handbrake when the check is completed.
- Open door using drivers control, remove handbrake, door will automatically close, if fitted.
- Re-apply the handbrake when the check is completed.
- Open the door by pressing the emergency open button mounted near the door.
- Close the door by pressing the interior close button.
- Manually check slide clutch. With door in fully closed position, pull door open using internal pull hand or pushing door from outside. Re-engage clutch by closing door manually or by pressing open button

“WHAT IF” FAULT FINDING

- A. **If one control button is not working:** Check continuity of switch & cables
- B. **If all control buttons are not working:** Check all buttons are receiving signal from vehicle multi-plex system. & check % as above
- C. **If all control buttons are working but door will not operate:** Check to see if motor is running by sound or vibration (touch)
- D. **If YES:** But ram not extending or retracting, then internal gears are faulty, request replacement drive unit.
- E. **If NO :** Then motor can be checked. Disconnect plug % + Short cable from motor red & black connect these to separate power supply. Connect % POSITIVE+ to RED . then with % Neg, TOUCH on black if door moves in wrong direction reverse connections. **DO NOT PERMANENTLY MAKE CONNECTION AS THIS WILL FORCE RAM TO BOTTOM OUT AND WILL LOCK UP**
- F. **If, YES:** From % + motor is running :- Then NO signal from multi-plex system to motor is present.
 - Check position of reed switches to line up with marks on drive unit
 - Check continuity of reed switches, If door still not operating:- Then Service Agent is required
- G. Please note all above can only be checked if power supply is present to multi-plex & door system also Door cut out switch is in the ON position (if fitted) and check for any fuses blown relating to door or multi-plex systems
- H. **If Door is hard to manually pull or push to open:** Clutch may be faulty & requires servicing
 - Or with a metal grinding sound is present.
 - But door can still be operated electrically.
- I. **If Door does not fully close when powered by drive unit.**
 - Check Lock pin is not protruding.
 - Check to see if door-guide roller at top is not loose or broken.
 - Check lower guide pin it may not be engaging properly into guide shoe.
 - Reed switch is loose and moved therefore motor is shutting off to early.
 - Check Upper door-shaft spherical flange bearing , mounted on shelf-plate is not loose retained by 2xM8 Bolts
- J. **If Door is powered to close & motor runs but door does not move:** the slide clutch slipping under (extra) load.
 - Clutch requires re-setting .
 - Extra load on door pivots (bearings) are tight and need lubrication.
 - Door being restricted.
- K. **If Step light above door is illuminated when door is fully closed :**
 - Closed reed switch is not been activated.
 - (2) Slide clutch is not fully engaged
 - (3) Slide clutch micro-switch is loose or not engaging.
 - (4) Micro-switch cable is disconnected.
- L. **If Door Open warning is activated when vehicle is above 5kph : See section “K”**
- M. **When Step is deplored:** This will disable all the door control buttons.
- N. **If Door stops in closing operation & Audible warning “ Step is Deplored” active: with no step deplored or step cover out**
 - Step Proximity Switch is faulty this will stop or disable door & all door control buttons
 - For AVG type fitted with micro-switch to be found inside carriage at back.
 - For MANUAL type fitted with reed-switch or (micro-switch). Standing outside see on left hand side between step & cover
 - %ellow light when in. Green light when step out.

It is important that any components found to be damaged or defective are replaced as soon as possible.

Failure to do could result in further damage to other components.