

The following method statement details the step-by step procedures necessary to de-mount the Evolis vacuum circuit breaker from GenieEvo.

It is technically possible to de-mount the circuit breaker without earthing the busbars using the following procedure.

There are three main areas of connection which are to be broken to allow the circuit breaker to be removed. These are:-

- 1 The circuit breaker mechanical fixings
- 2 The circuit breaker HV connections
- 3 The ancillary connections

For additional details please refer to the attached CAD drawing highlighting each specific area referred to in the method statement.

SECTION 1 CIRCUIT BREAKER MECHNAICAL FIXINGS

1.1 Circuit Breaker Fascia

Remove the 6 bolts retaining the circuit breaker fascia and remove the fascia.

1.2 Lower chamber

Remove the 18 fixings which retain the lower chamber cover plate. Remove cover plate.

1.3 Lower CB fixings

From the lower chamber remove the 14 fixings retaining the fixing access plate and remove plate.

1.4 Lower fixings

Remove the 4 lower circuit breaker fixing bolts

1.5 Mimic Fascia

Open the cable test access door, the unit should be in the earth on position to make this possible. Remove the 4 fixings and selector lever retaining the fascia and remove fascia.

1.6 Upper CB fixings

Remove the 4 upper circuit breaker fixing bolts.

1.7 CB retaining Bracket

Loosen the 2 fixings holding the retaining bracket in position. Raise the retaining bracket to it's highest position on the slotted holes and retighten the 2 fixings holding the bracket in the upper position.

SECTION 2 CIRCUIT BREAKER HV FIXINGS

- 2.1 Lower HV access plate**
From the lower chamber remove the 8 fixings retaining the lower circuit breaker chamber access plate and remove plate.
- 2.2 Lower HV connection**
Remove the lower closure caps and loosen the fixing bolt (one per phase).
- 2.3 Rear LV cover plate**
From the rear of the unit remove the 7 fixings retaining the lower rear LV cover plate.
Remove rear LV cover plate.
- 2.4 Upper HV access plate**
Remove the 10 fixings retaining the upper HV access plate.
- 2.5 Upper HV connection**
Remove the upper closure caps and loosen the fixing bolt (one per phase).

SECTION 3 ANCILLIARY CONNECTIONS

- 3.1 Front Flange**
Remove 2 fixings retaining the front flange and remove flange.
- 3.2 Trip interlock**
Disconnect the trip interlock drive from the circuit breaker.
- 3.3 On/Off indication drive**
Disconnect the on / off indication drive interlock from the circuit breaker.
- 3.4 CB wiring**
Disconnect the circuit breaker wiring loom.

It is now possible to remove the Evolis circuit breaker from the GenieEvo enclosure.

Remounting is the reverse of the above procedure.

The above procedure has been trailed in simulated site conditions and is proven to be possible within 1 hour.