Carbolite Laboratory Chamber Furnaces
Instruction to Replace the Door Mechanism
Case Sizes V, W, X, A, B & C

The following instructions should be followed to remove and replace the door mechanism in the following models of Carbolite laboratory chamber furnaces:

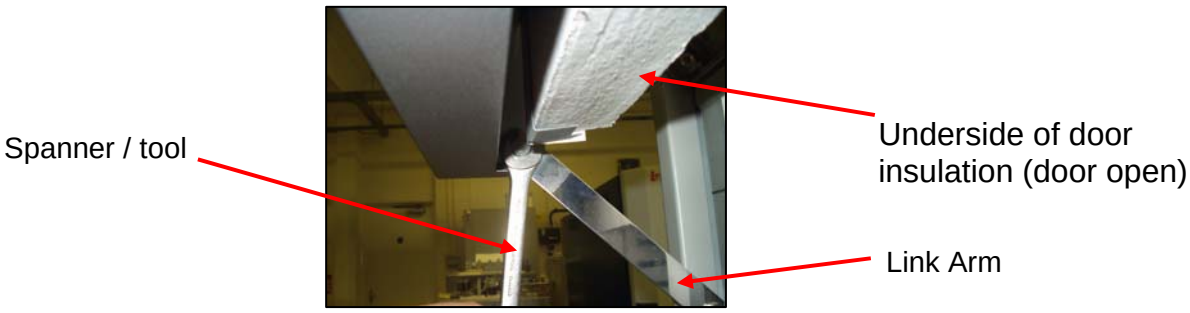
CWF	CSF	RHF 11/-	RHF 12/-
BOF	BWF	HTC 14/3	HTC 15/3
HTC 16/3	OAF	VMF	GSM
AAF	RWF	CMF	RHF 14/3
RHF 15/3	RHF 16/3	RHF 14/8	RHF 15/8
RHF 16/8			

Note that the photos show removal and installation of left side components – the same operations apply to the right side of the furnace.

The following tools are required to complete this task:

- No 2 crosshead screwdriver
- 10mm and 11mm spanner
- 10mm socket

1. Isolate (disconnect) the furnace from the electrical supply.
2. Open the furnace door.
3. Release the bottom link arms from the door. (Take care to not lose any of the washers!)



4. Remove the furnace back panel (remove the earth wire from the back panel).
5. Remove the furnace chimney (all parts).
6. Loosen or remove the fixings to the furnace chamber. (4 fixings).

Note that on some models there are 2 fixings under the front shelf

It may be sufficient to simply loosen the lower fixings, without removing them

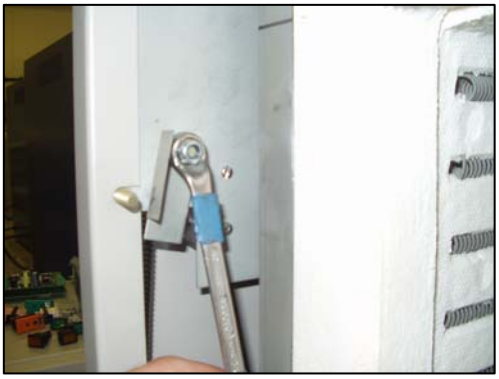
7. From the front of the furnace, push the chamber from the back ONLY far enough to gain access to the mechanisms at the front (see photo). Make sure that the chamber is securely supported before proceeding. Make sure that the wires and cables are not over-stretched.

MOVE THE CHAMBER BACKWARDS (a short distance, as indicated) TO ALLOW ACCESS TO THE DOOR MECHANISM

8. Remove the bottom link arms from the furnace case and discard.

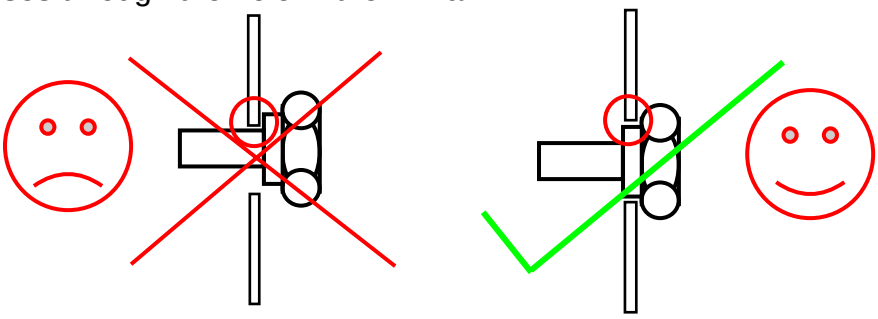
9. Remove the shoulder bearings and discard.

10. Remove switch actuator, including various nuts and washers and discard all old components.



11. Reassemble the mechanism using the parts provided. See FIGURE 1 below to ensure that components are all fitted properly and in the correct order.
    Important!! The switch actuators and the link arms must be free to rotate when the securing nuts are tightened.

12. Reposition furnace chamber and fix in place (reversal of step #6). Make sure that it is positioned centrally, or the door plug will not fit into the chamber!
    Important!! Ensure that the shoulder bolts are properly located – so that the shoulder passes through the hole in the link arm



13. Carefully replace chimney (the insulation materials are very weak!).

14. Attach the earth wire to the back panel and replace the back panel using existing screws.

15. Test : When the furnace door is open and a high set point has been selected, the elements should **not** be live.
    (We recommend the use of a qualified and authorized local electrician for this)

For technical enquiries please contact Carbolite using the following:-
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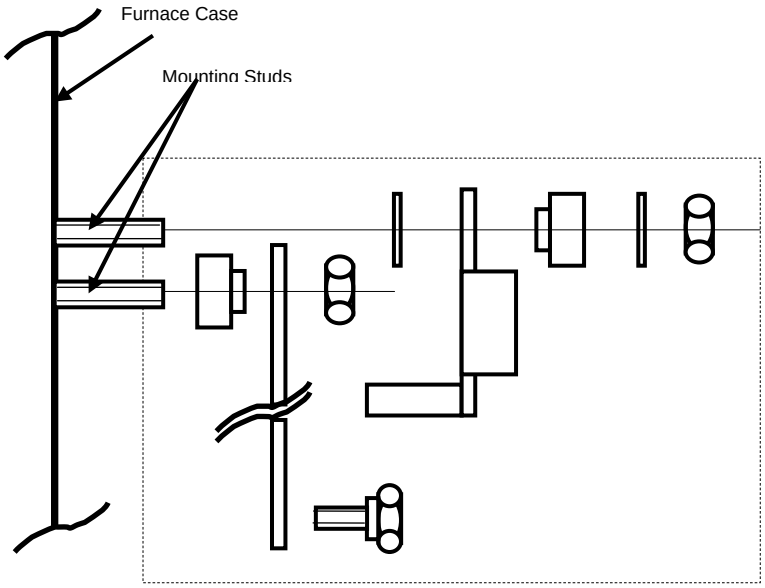

FIGURE 1.

Left Hand Side shown. Right Hand Side is mirror image.

Item	No Of	Name
1	2	Lower Link
2	1	Switch Actuator - Left
3	1	Switch Actuator - Right
4	4	Bush
5	2	Shoulder Bolt
6	4	Washer
7	4	Nut