

Technical service bulletin

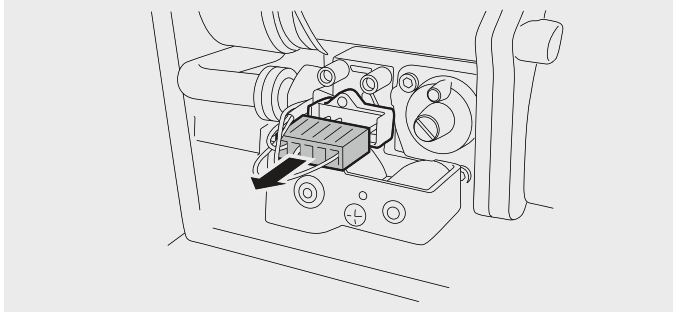
Heat Exchanger Replacement

Buderus

Heat Exchanger Replacement Procedure

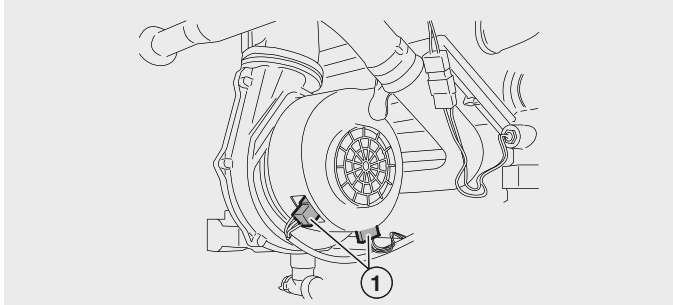
- ▶ Remove the cable plug from the gas control valve.

Figure 1



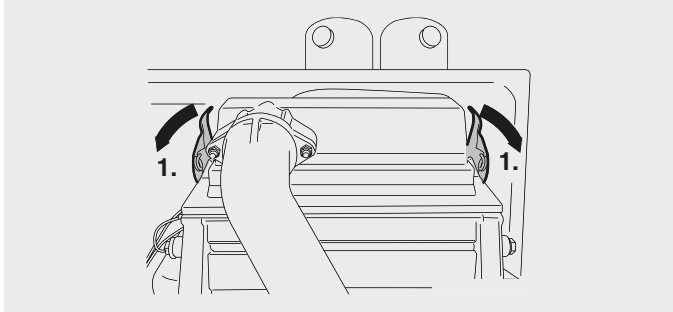
- ▶ Remove both cable plugs [Fig.2, pos.1] from the fan unit.

Figure 2



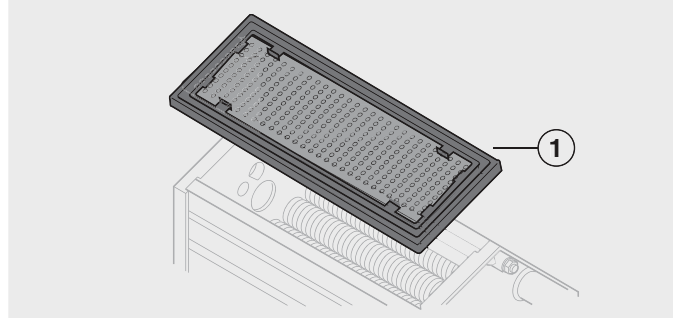
- ▶ Pull down on both retaining clips [Fig.3, pos.1] to open and remove the burner cover.

Figure 3



- ▶ Remove the burner [Fig.4, pos.1].

Figure 4



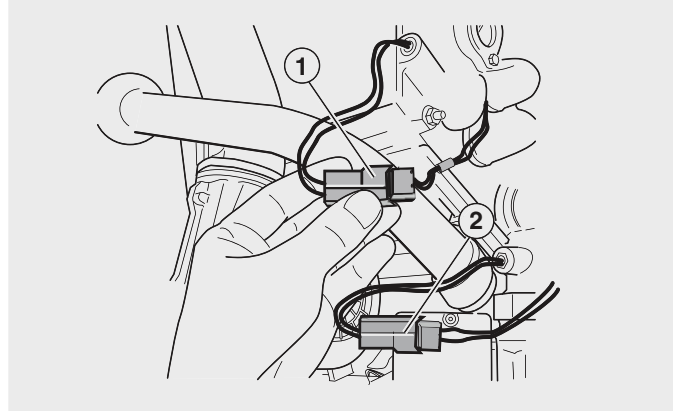
- ▶ Disconnect the supply [Fig.5, pos.1] and return [Fig.5, pos.2] sensors.



CAUTION: electrical short circuit

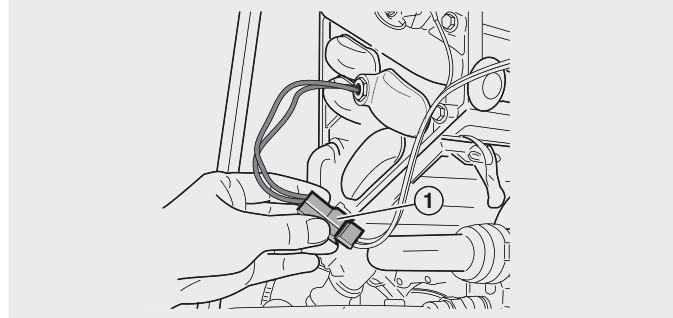
To prevent mix-ups, the supply sensor is marked by a red sleeve on the side of the cable harness.

Figure 5



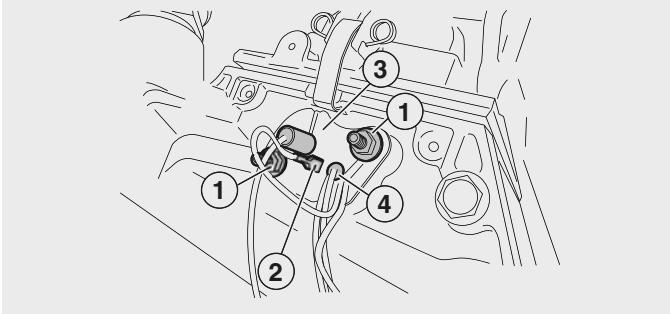
- ▶ Disconnect the safety sensor [Fig.6, pos.1].

Figure 6



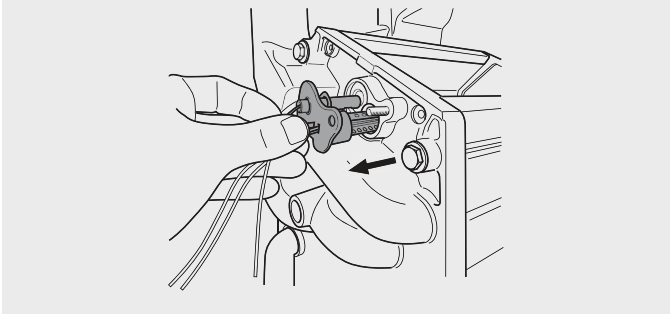
- ▶ Disconnect the hot surface ignitor and ionization electrode plugs.
- ▶ Loosen the fastening screws [Fig.7, pos.1].
- ▶ Pull the ground cable from the hot surface ignitor [Fig.7, pos.2].
- ▶ Dismantle the mounting plate [Fig.7, pos.3].

Figure 7



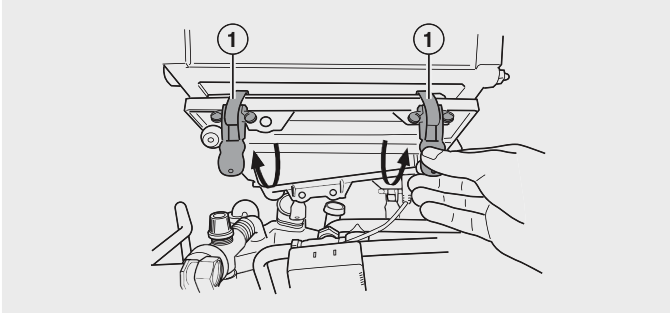
- ▶ Remove both the hot surface ignitor and the ionization electrode from heat exchanger [Fig.8].

Figure 8



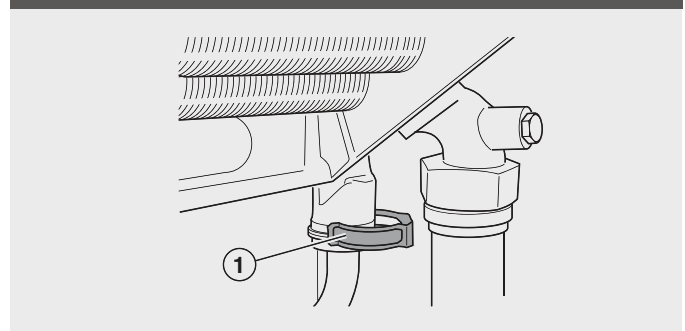
- ▶ Open latches [Fig.9, pos.1] on the condensate collector.

Figure 9



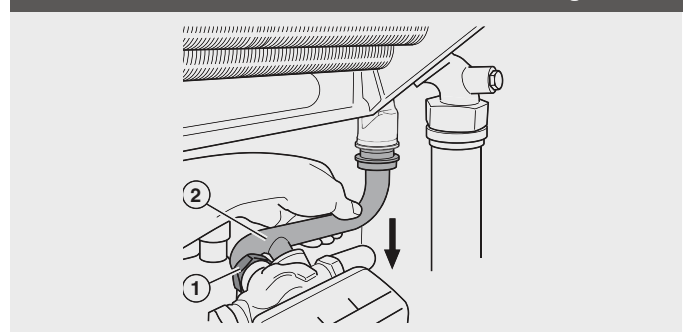
- ▶ Remove the condensate collector.
- ▶ Dismantle the tension spring [Fig.10, pos.1] between the supply pipe and the heat exchanger.

Figure 10



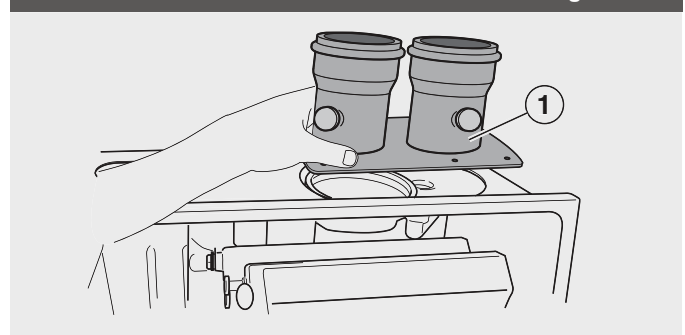
- ▶ Loosen with one turn the nut [Fig.11, pos.1] between the supply connection and three way valve connection AB.
- ▶ Pull the supply pipe [Fig.11, pos.2] out of the heat exchanger.

Figure 11



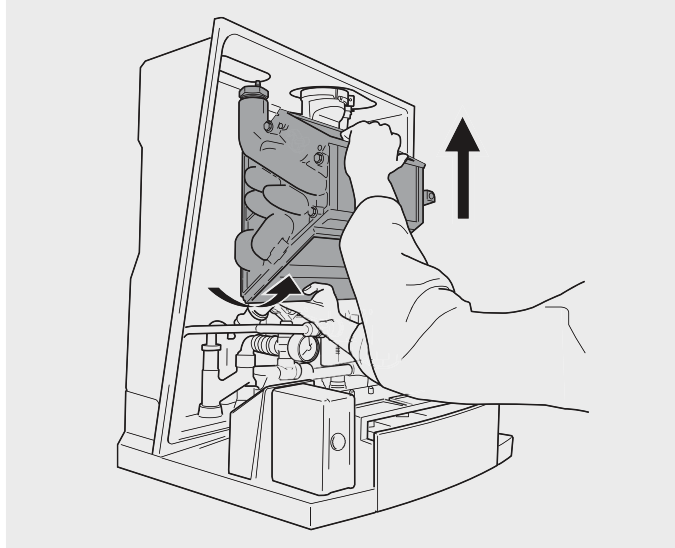
- ▶ Pull the combustion air supply and flue gas exhaust connections on top of the appliance upwards to remove them.
- ▶ Loosen all fastening screws of the flue gas adapter.
- ▶ Remove the flue gas adapter [Fig.12, pos.1] from the top of the appliance.

Figure 12



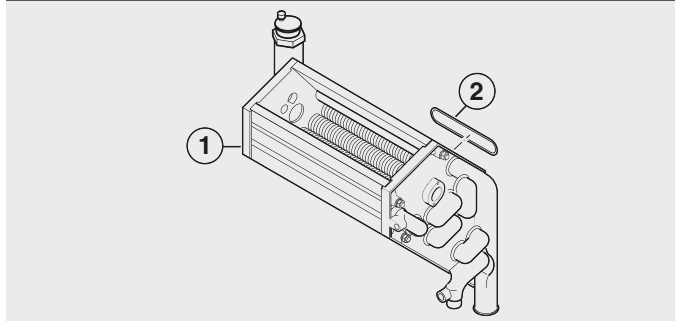
- ▶ Remove the heat exchanger by pulling forward on the bottom end and then pushing it upwards [Fig.13].

Figure 13



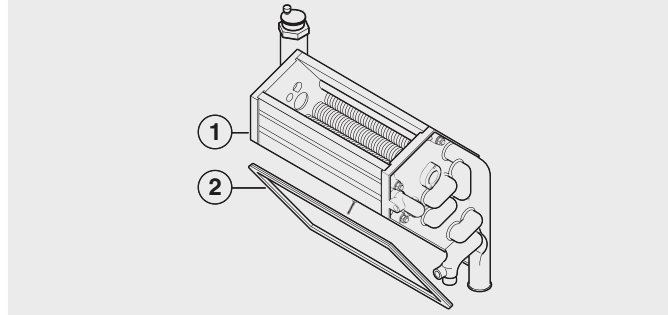
- Remove the flue gas collector from the old heat exchanger, including the oval seal.
- Put silicon on both sides of the new oval seal [Fig.14, pos.2], the flue gas collector and the new heat exchanger [Fig.14, pos.1].

Figure 14



- Reassemble the flue gas collector with the new oval seal to the new heat exchanger.
- Check if the new oval seal is placed correctly by opening the condensate collector.
- Install the new seal for the condensate collector [Fig.15, pos.2].

Figure 15



- Install the new heat exchanger and all other parts in reverse order of disassembly.

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