

THEORY OF OPERATION

THE COOKTOP BURNERS

Refer to the illustration below while you read this description.

When a surface burner control knob is turned to the "lite" position, the gas valve **2** opens, and gas from the pressure regulator **3** flows into the manifold **4**, and through the open valve. As gas passes through the valve and its orifice, it is directed into the venturi **5**, where it mixes with air to create the proper mixture necessary for combustion.

At the same time, line voltage is applied through the ignitor switch **6** to the ignitor module **7**, which produces high-voltage pulses to all of the burner ignitors **8**. The pulses cause a spark **9** to occur between the burner ignitor and the grounded burner cap **10**, which ignites the gas and air mixture at the burner head, and produces a flame.

