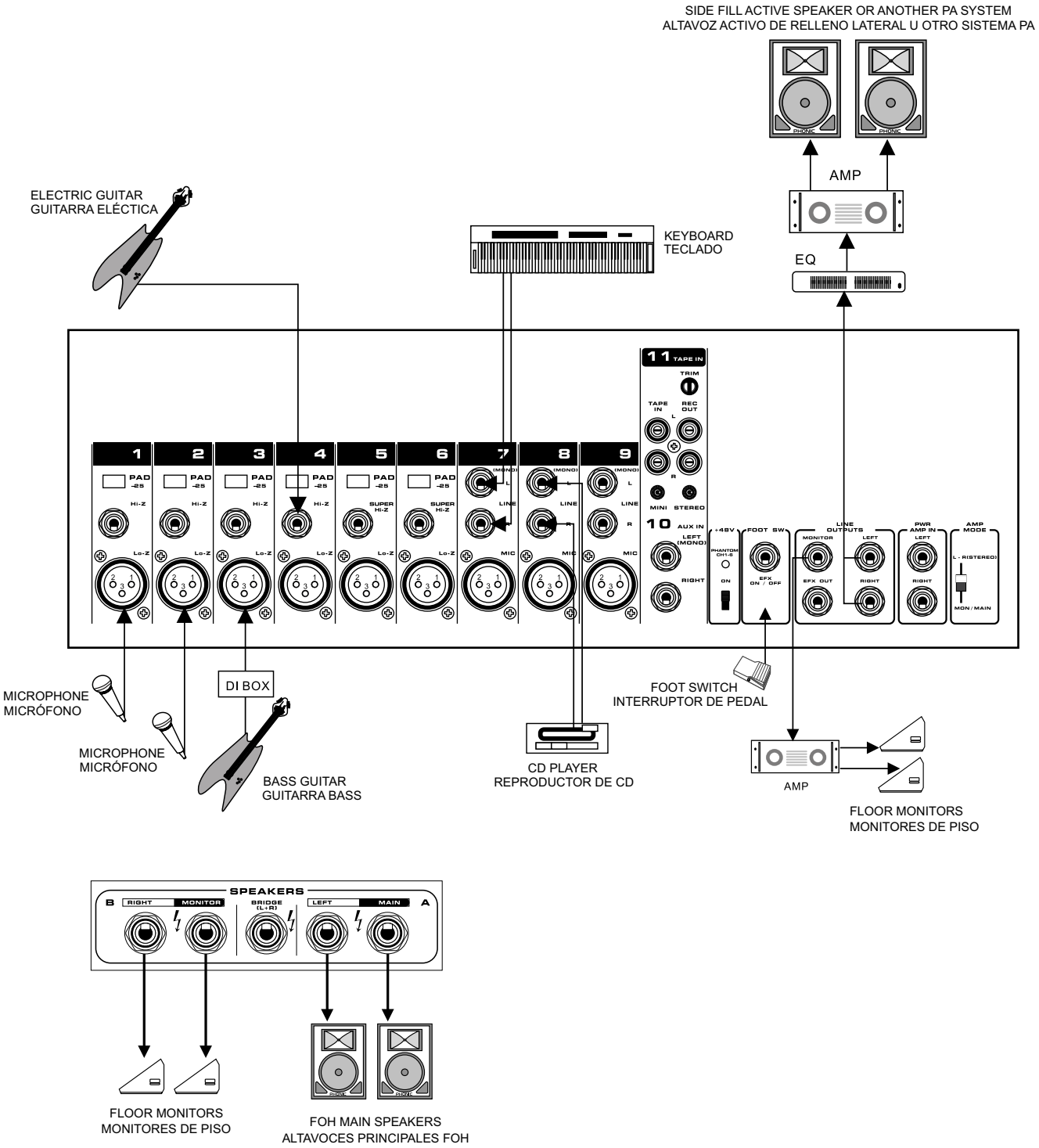APPLICATIONS APLICAÇÕES