

Table 1: SPI Commands

COMMAND	CODE	DESCRIPTION
Disconnect()	0x00	Disconnect communication between the control unit and the central platform
InitialSetup()	0x01	Calculate the pulse rate of the hall sensors and place the actuator in a fully reflected position
SafeReset()	0x02	Place the actuator in a fully reflected position
Basic()	0x03	Basic commands to control the movement of the actuator
Advanced()	0x04	Advanced commands to control the movement of the actuator
Stop()	0x05	Stops the current action of the actuator
Extended()	0x06	The actuator will extend
Refracted()	0x07	The actuator will refract

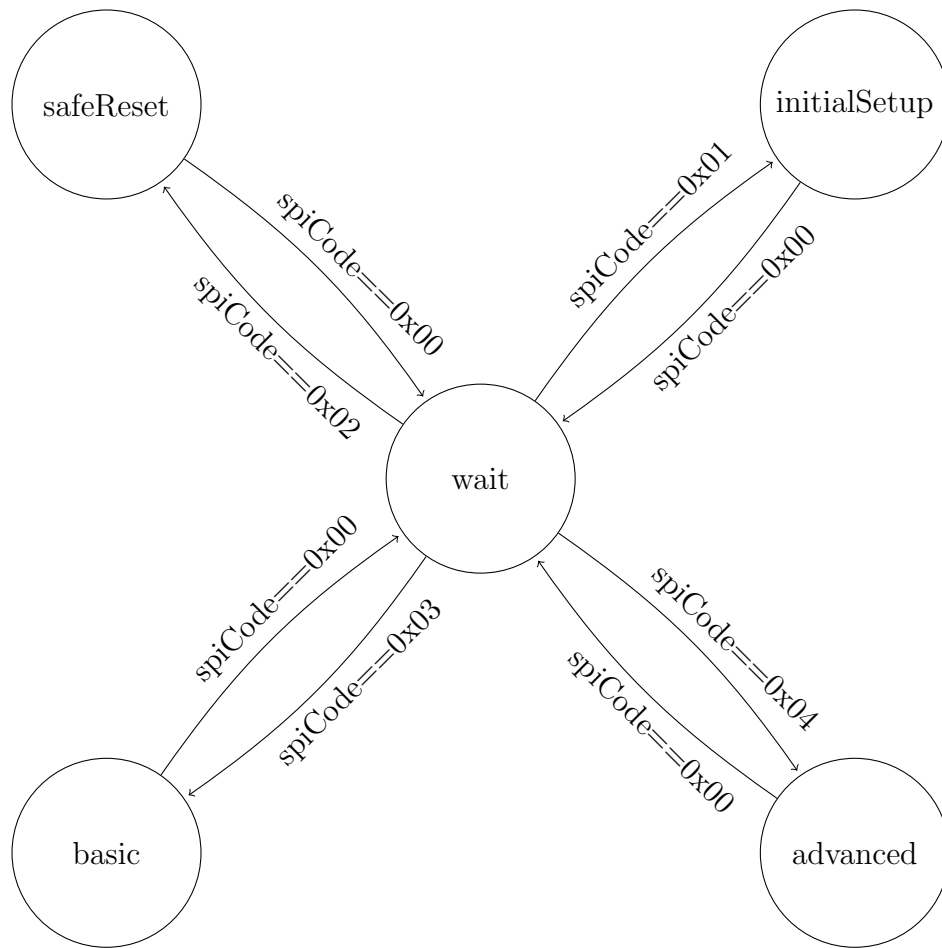


Figure 1: Modes of operation of the control unit

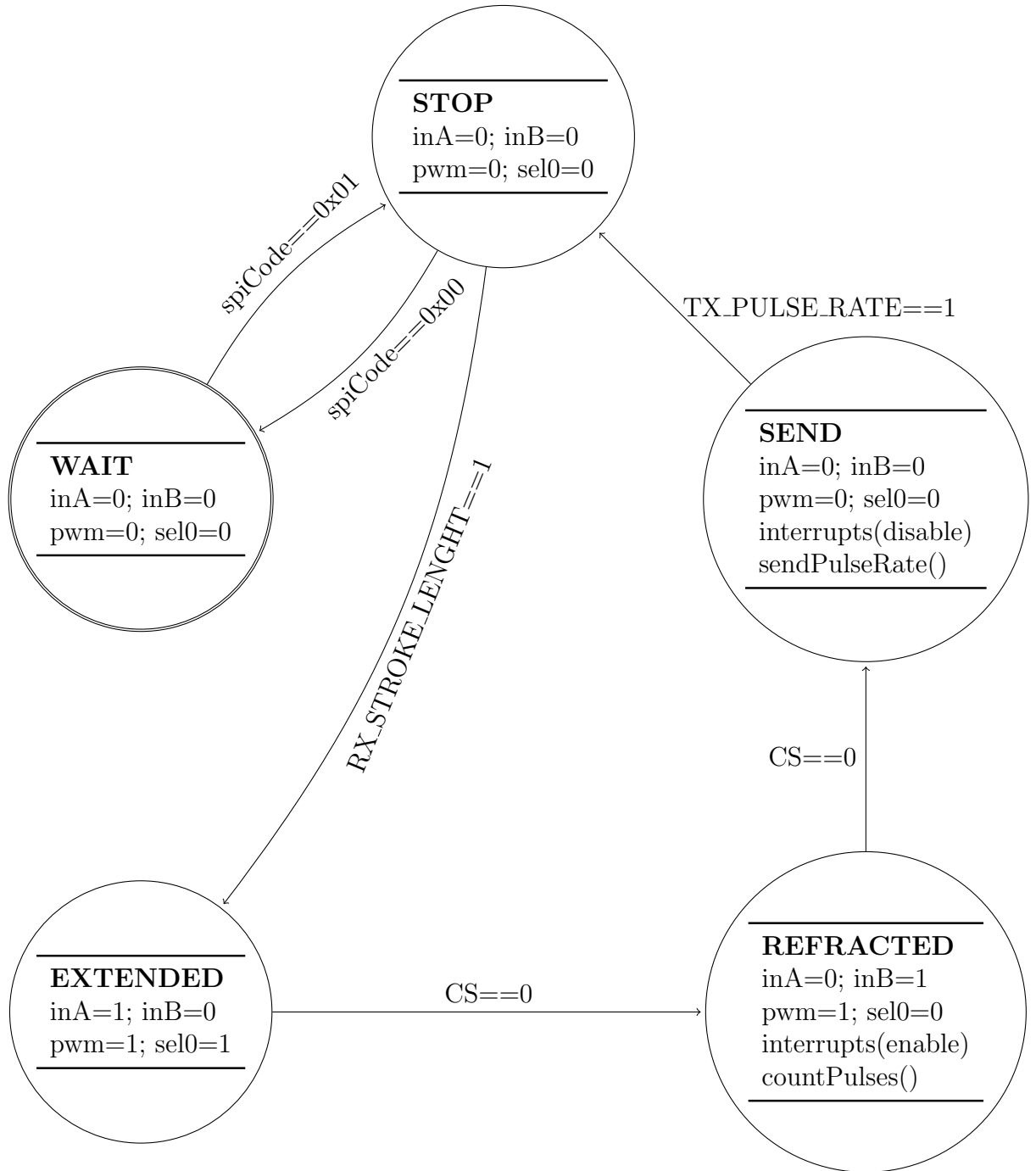


Figure 2: Initial Setup

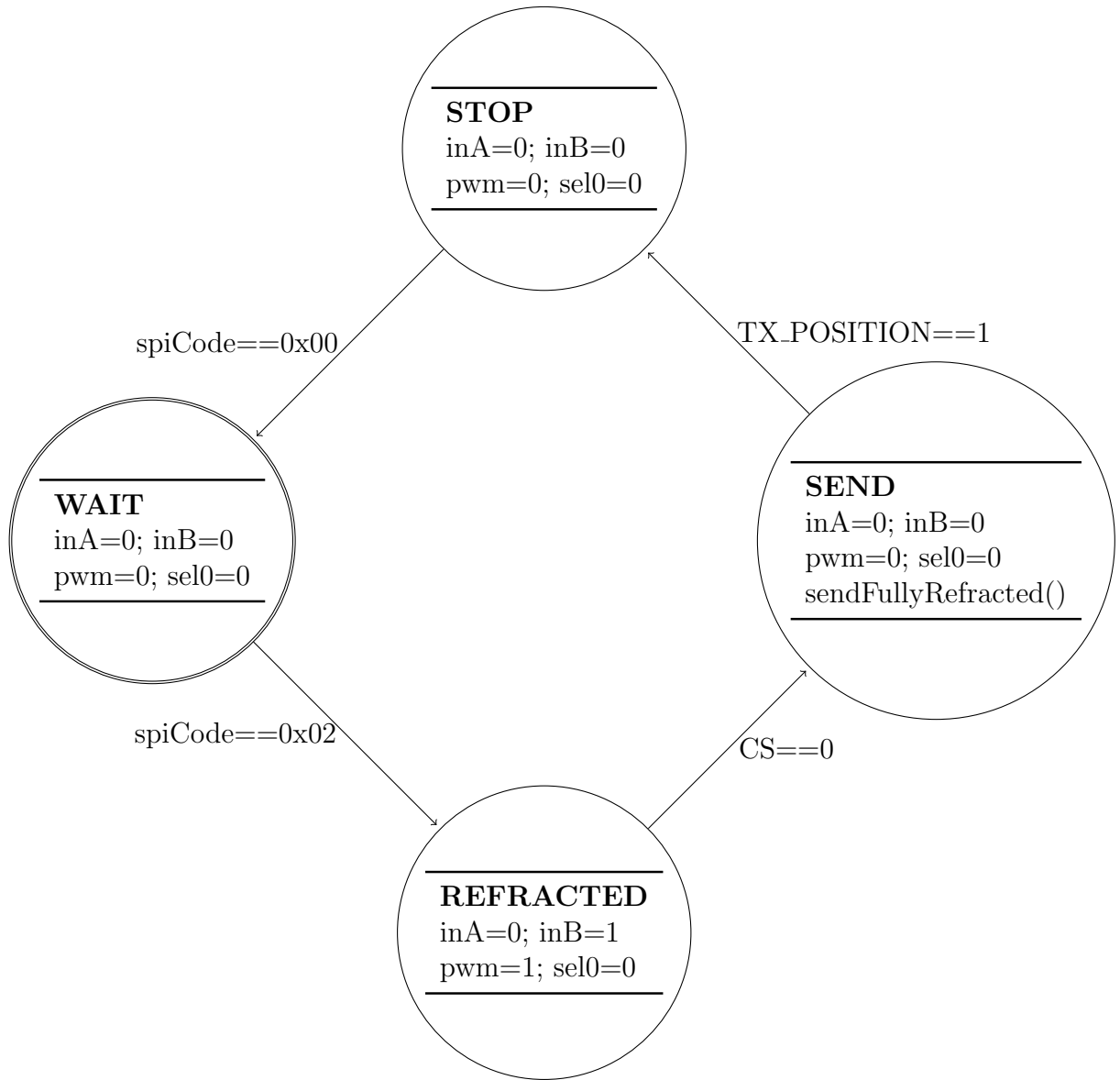


Figure 3: Safe Reset

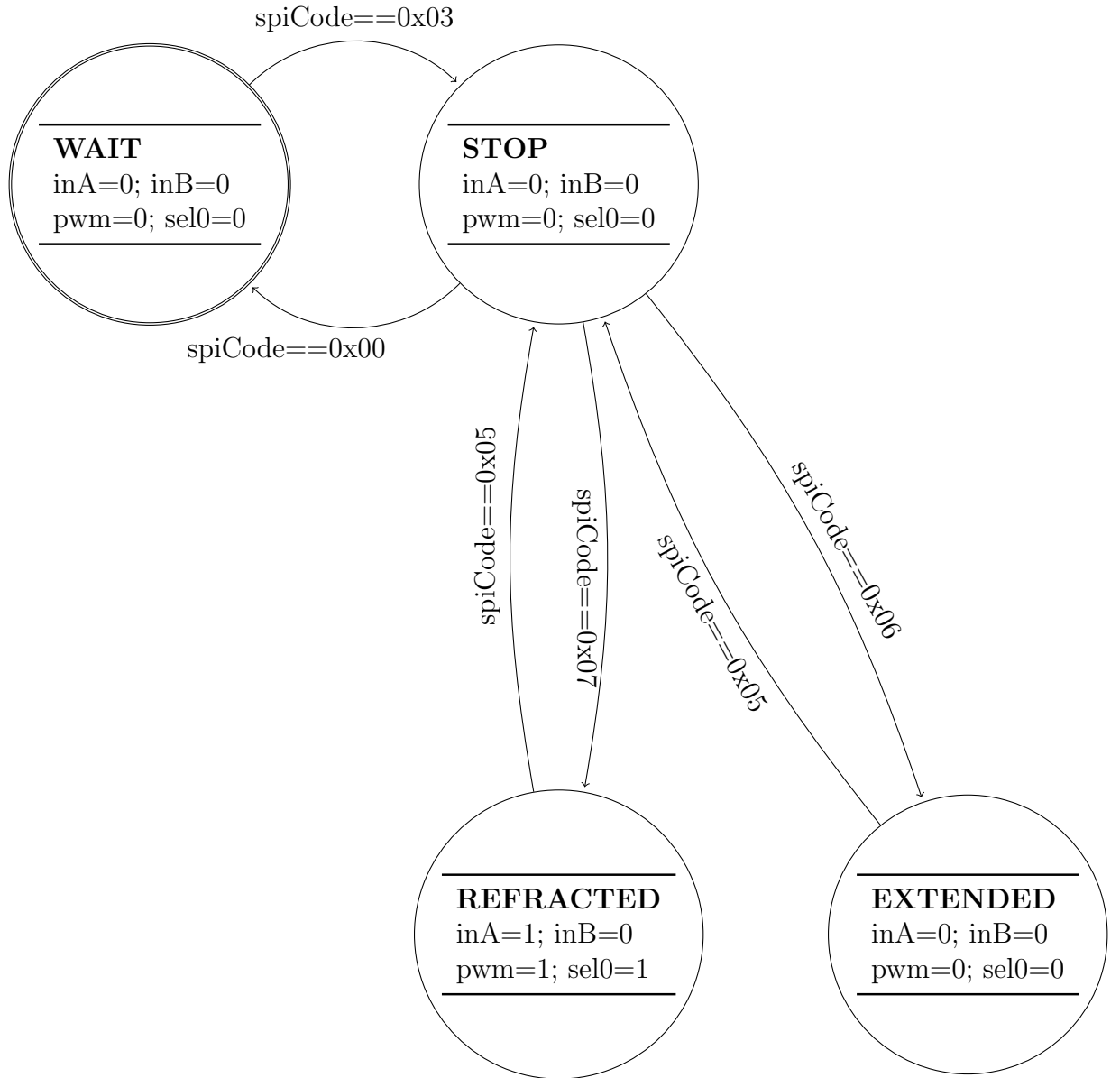


Figure 4: Initial Setup