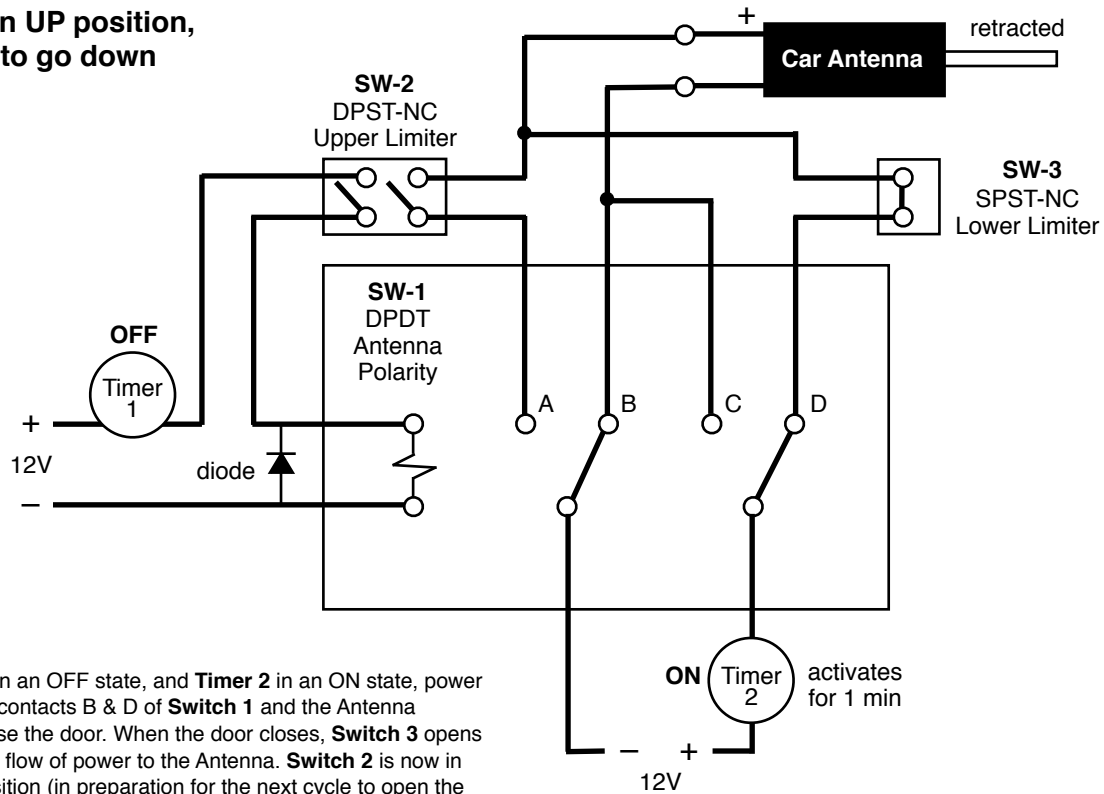


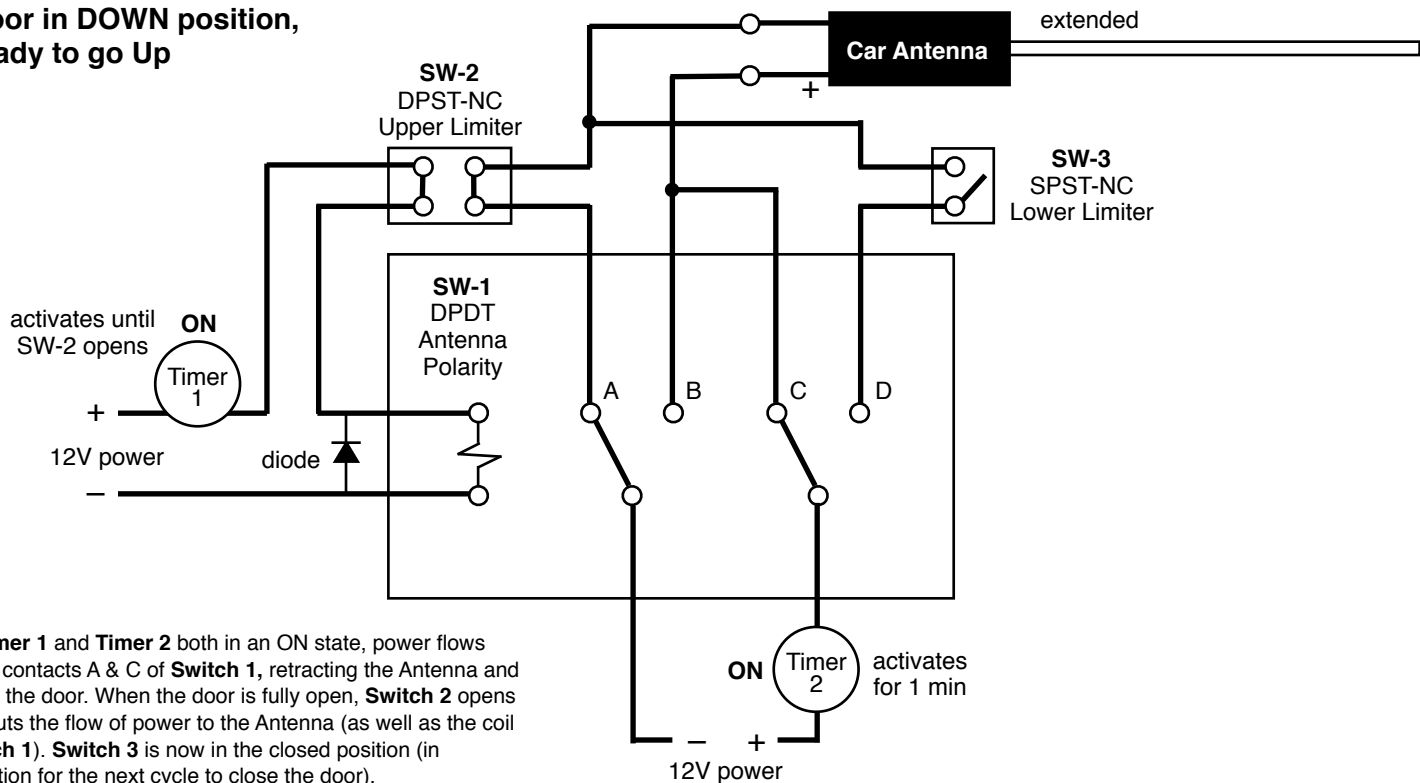
Door in UP position,
ready to go down



With **Timer 1** in an OFF state, and **Timer 2** in an ON state, power flows through contacts B & D of **Switch 1** and the Antenna extends to close the door. When the door closes, **Switch 3** opens which cuts the flow of power to the Antenna. **Switch 2** is now in the closed position (in preparation for the next cycle to open the door).

I realize the use of a DPST switch for **SW-2** is probably redundant. I only included it to cut down the time that power continues to be applied to the coil in **SW-1** for 2 reasons - 1. To save on battery power and 2. To allow for more margin of error between the timers (only need to worry about the 'ON' state).

Door in DOWN position,
ready to go Up



With **Timer 1** and **Timer 2** both in an ON state, power flows through contacts A & C of **Switch 1**, retracting the Antenna and opening the door. When the door is fully open, **Switch 2** opens which cuts the flow of power to the Antenna (as well as the coil in **Switch 1**). **Switch 3** is now in the closed position (in preparation for the next cycle to close the door).