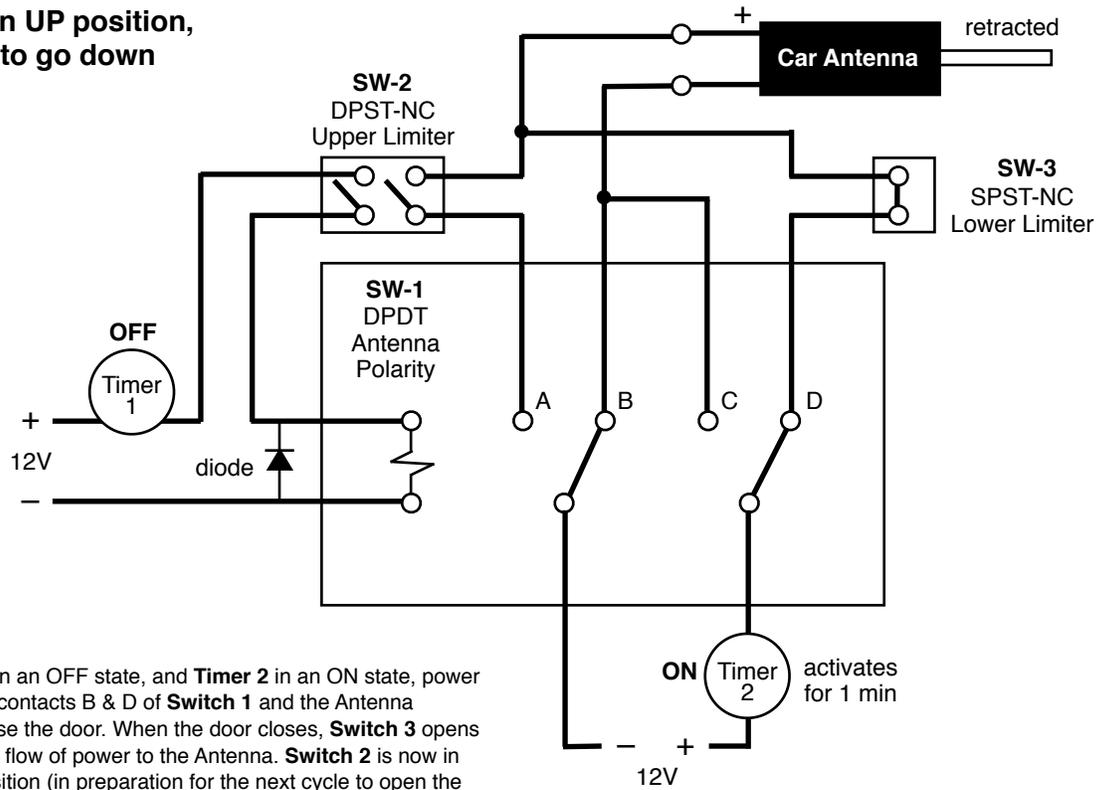


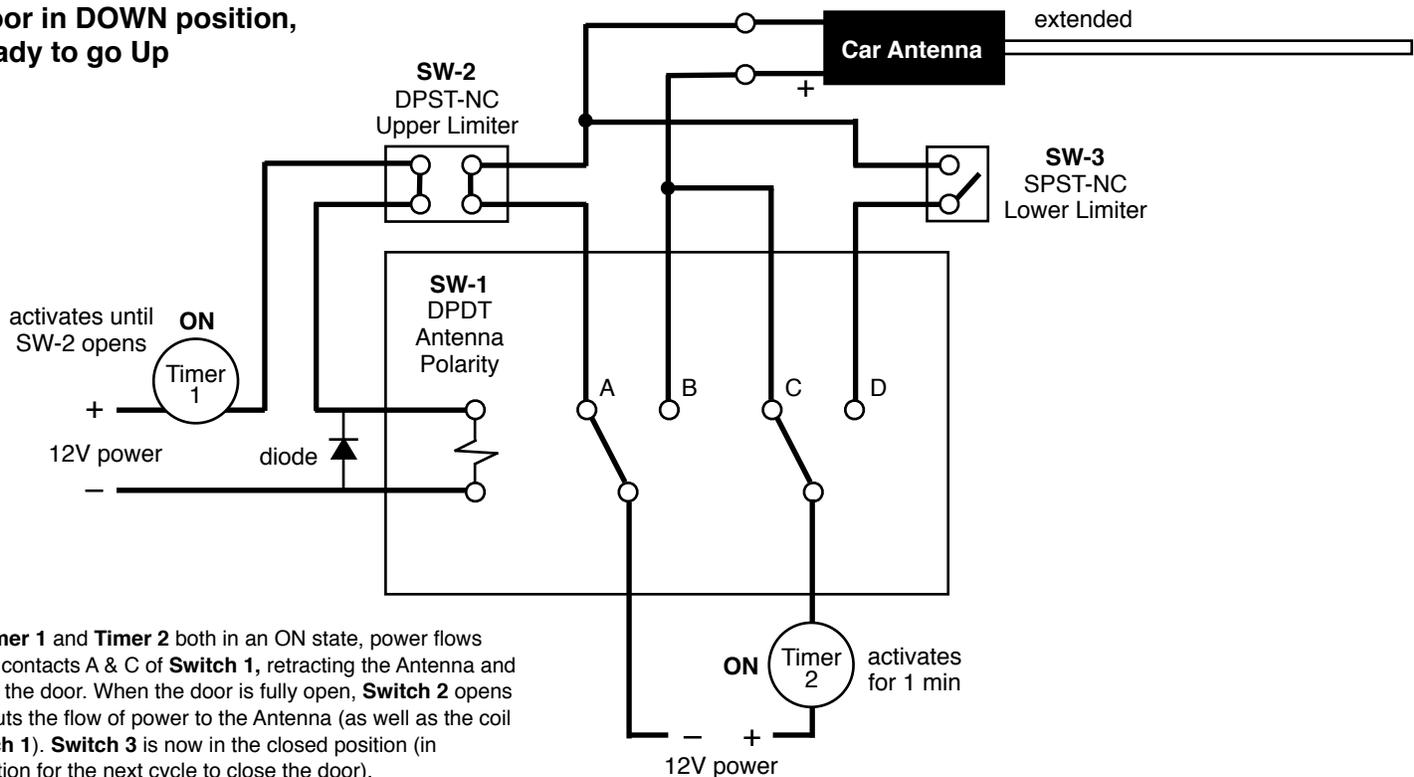
**Door in UP position,
ready to go down**



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).