Car Alarm Project

→ System armed automatically after she turns off the ignition, and exits the car and arm delay has passed.

(1) So system armed when

Case I
- → ignition off
- → car door has opened (driver's)
- → car door closed
- → t_arm_delay has passed.

Case II
- ~~in~~ case of passenger.

The system arms when

- → both the doors are closed
- → t_arm_delay has passed.

Case III
- → t_arm_delay is restarted if a door is opened and reclosed before the alarm has been armed.

(v) Once system is armed

(3)

I { Opening the driver's door, begins a countdown.

If the ignition is not turned on within the countdown interval. i.e. t_driver_delay the siren sounds.

II { The siren is on for as long as the door is open and for extra time after the door is closed. (t_alarm_on). After this the system resets to armed but silent state. (siren off)

III { If ignition is turned on within the countdown, then system is disarmed.

(3) It is polite to open passenger's door first.

when passenger's door is opened first a separate delay, presumably longer delay. (t_passenger_delay) is used as countdown interval.

This extra time is for the driver to walk around the car and get in driver seat.

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(4) LED on dashboard

Blinks with a 2second period when system is armed state.

Remains illuminated
→ Countdown before getting armed i.e. delay time.

→ Siren is on.

LED off when disarmed.

Date
Page

Extra from normal alarm

control of power to fuel pump

(1) Ignition off - ~~Control~~ power to fuel pump is off.

(2) Power is restored when
→ first ignition is turned on.

→ driver presses both a hidden switch and brake simultaneously.

(3) Power is on until ignition is turned off.