05JVZ–01

PRE–CHECK

1. OUTLINE OF THEFT DETERRENT SYSTEM

(a) When the theft deterrent system detects that the vehicle is being tampered with, the system sets off the alarm, causing the horns to sound and the lamps to illuminate or start flashing in order to alert people around the vehicle to the theft. At the same time, the system locks all the doors. If all the doors are not locked at once, the system repeats the door locking operation every 6.38 seconds during the 27.5 second alarm.

(b) There are 4 states: disarmed state, arming preparation state, armed state and alarm sounding state.

(1) Disarmed state:
- The alarm function is not operating.
- The theft deterrent system is not operating.

(2) Arming preparation state:
- The time until the system enters armed state.
- The theft deterrent system is not operating.

(3) Armed state:
- The theft deterrent system is operating.

(4) Alarm sounding state:
- The alarm function is operating.

Alarming method:

Headlamp	Blinking (cycle of 0.4 sec.)
Taillamp	Blinking (cycle of 0.4 sec.)
Hazard Warning Lamp	Blinking (cycle of flasher relay)
Room Lamp	Illuminating
Vehicle Horn	Sounding (cycle of 0.4 sec.)
Security Horn	Sounding (cycle of 0.4 sec.)

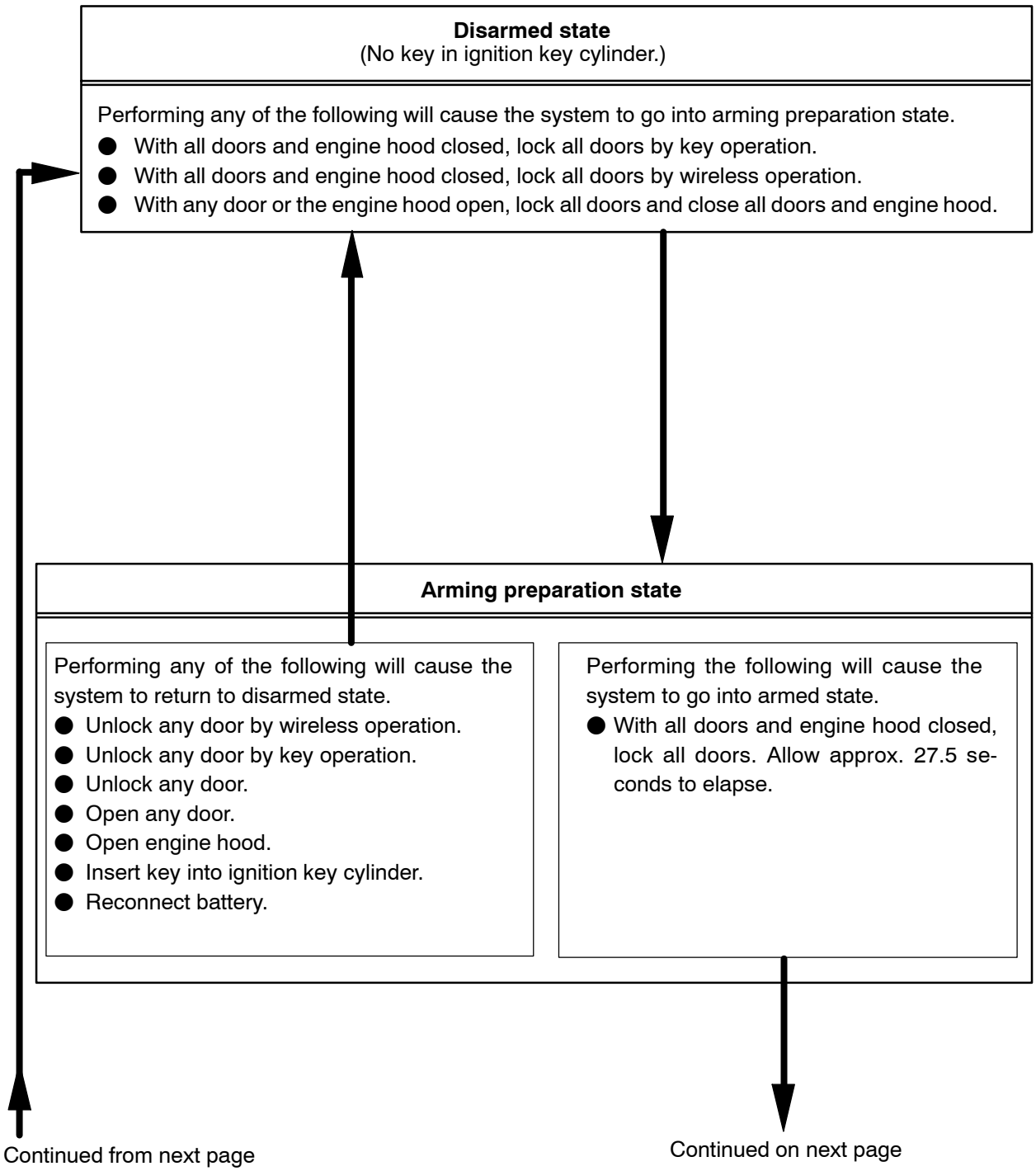
Alarming time: Approximately 27.5 seconds

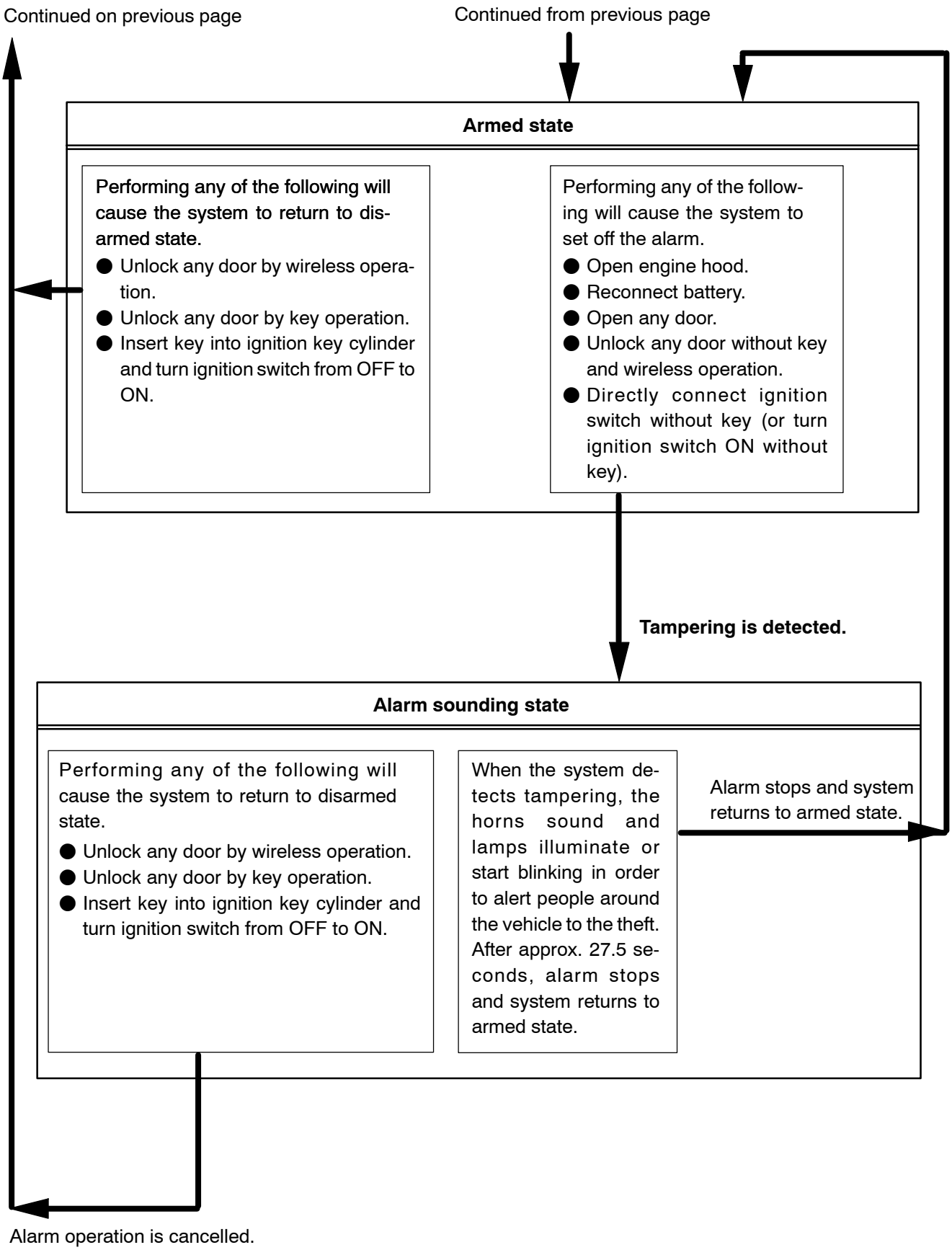
HINT:

If any of the doors are unlocked with no key in the ignition key cylinder during the armed state, a forced door lock signal will be output (see step 5).

2. ACTIVE ARMING MODE

- Active arming mode starts the alarm control immediately after the doors are locked.




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Armed state
Performing any of the following will cause the system to return to disarmed state.
● Unlock any door by wireless operation.
● Unlock any door by key operation.
● Insert key into ignition key cylinder and turn ignition switch from OFF to ON.
Performing any of the following will cause the system to set off the alarm.
● Open engine hood.
● Reconnect battery.
● Open any door.
● Unlock any door without key and wireless operation.
● Directly connect ignition switch without key (or turn ignition switch ON without key).
Tampering is detected.
Alarm sounding state
Performing any of the following will cause the system to return to disarmed state.
● Unlock any door by wireless operation.
● Unlock any door by key operation.
● Insert key into ignition key cylinder and turn ignition switch from OFF to ON.
When the system detects tampering, the horns sound and lamps illuminate or start blinking in order to alert people around the vehicle to the theft. After approx. 27.5 seconds, alarm stops and system returns to armed state.
Alarm stops and system returns to armed state.
Alarm operation is cancelled.

3. FORCED DOOR LOCK CONTROL

(a) The forced door lock control also helps to prevent the vehicle from being tampered with. when a door is unlocked and the alarm starts, the door is forced to lock by a forced door lock signal.

(1) Conditions that force the doors to lock:

- The theft deterrent system is in the alarm sounding state.
- Any door is unlocked.
- No key is in the ignition key cylinder.

4. ALARM MEMORY FUNCTION

(a) If the alarm is set off (tampering is detected) while the theft deterrent system is armed, the alarm memory function will record it. Whenever the theft deterrent system is cancelled, the alarm memory function causes the taillamps to illuminate for 2 seconds to inform you that the alarm has been set off.

5. SECURITY INDICATOR OUTPUT

(a) The theft warning ECU outputs a signal to illuminate the security indicator according to the state of the theft deterrent system. However, some of the actual lighting conditions of the security indicator are different from the output signals of the theft warning ECU.

Output:

State of Theft Deterrent System	Security Indicator Output Signals from Theft Warning ECU	Security Indicator Actual Lighting Condition
Disarmed state	OFF	OFF (Immobilizer system unset) BLINKING (Immobilizer system set)
Arming preparation state	ON	ON
Armed state	OFF	BLINKING
Alarm sounding state	ON	ON

Blinking cycle:

Time	Security Indicator
0.2 sec.	ON
1.8 sec.	OFF

HINT:

When the immobilizer system is set, the security indicator blinks during the armed state, due to the output signals from the immobilizer system.