

THEFT DETERRENT SYSTEM

730EP-01

ON-VEHICLE INSPECTION

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 lights to light up or blink in order to alert people around the vehicle to the theft.
- (b) The theft deterrent system has 2 modes; one is active arming mode and the other is passive arming mode. Passive arming mode can be switched ON/OFF by the specified method (See step 4).
- (c) Each mode has 4 states; disarmed state, arming preparation state, armed state, 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 goes into the armed state.
 - The theft deterrent system is not operating.
 - (3) Armed state:
 - The theft deterrent system is operating.

HINT:

If the vehicle remains in a condition that sets off the alarm (any door remains open, engine hood remains open, ignition switch remains directly connected) after the alarm ends, the alarm will be set off repeatedly a maximum of 10 times for every one of the above specified conditions.

Alarm time: (60 ± 5 sec.) x 10

(4) Alarm sounding state:

When the theft deterrent system detects that the vehicle is being tampered with while in the armed state, the system causes the horns to sound and the lights to light up or blink in order to alert people around the vehicle to the theft.

Refer to the table below for the alarm method and time:

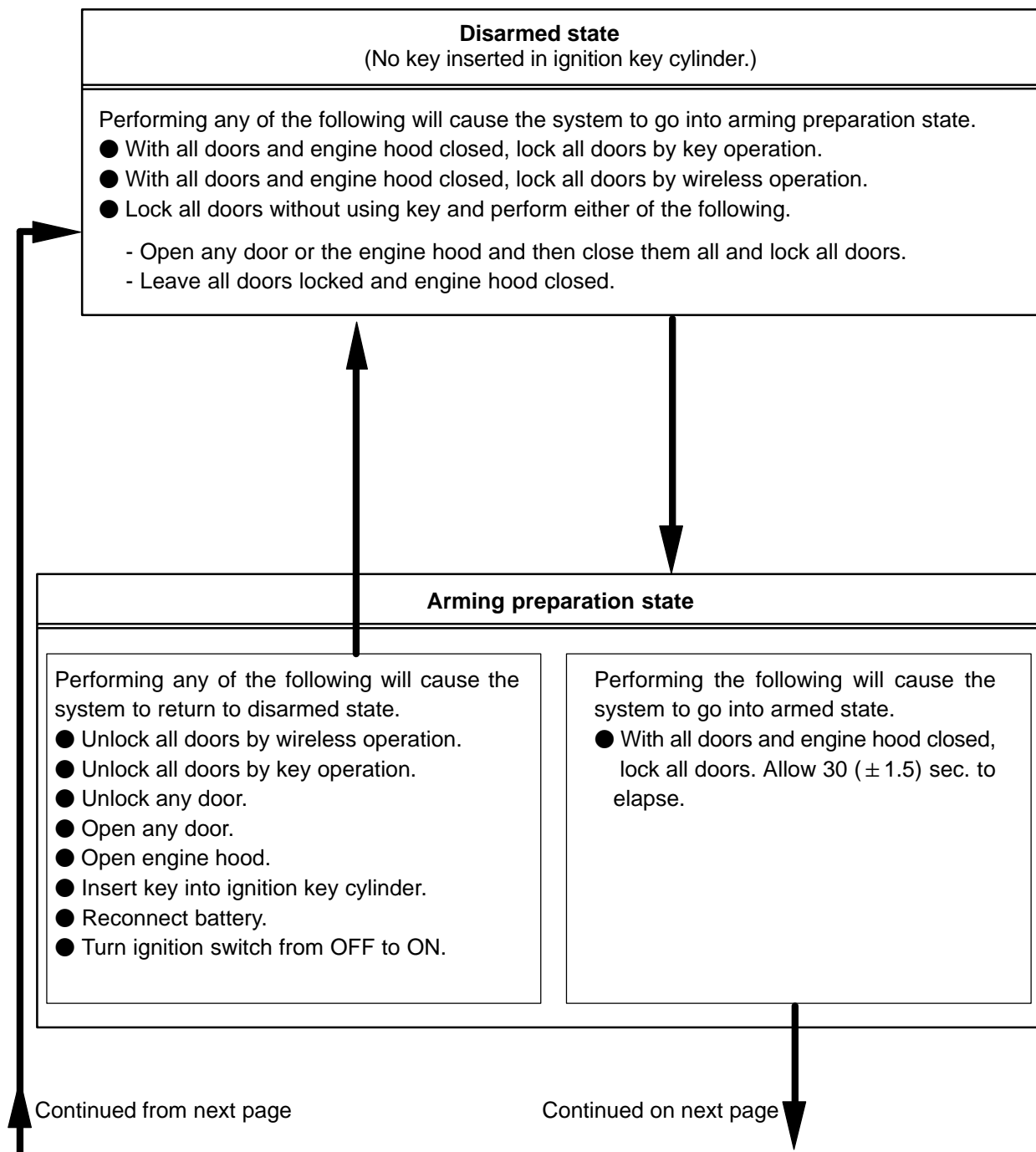
Alarm Method	Headlight	Blinking (cycle of 0.4 sec.)
	Taillight	Blinking (cycle of 0.4 sec.)
	Hazard Warning Light	Blinking (cycle of flasher relay)
	Room Light	Illuminating
	Vehicle Horn	Sounding (cycle of 0.4 sec.)
	Theft Deterrent Horn	Sounding (cycle of 0.4 sec.)
Alarm Time	60 ± 5 sec. (maximum 10 times)	

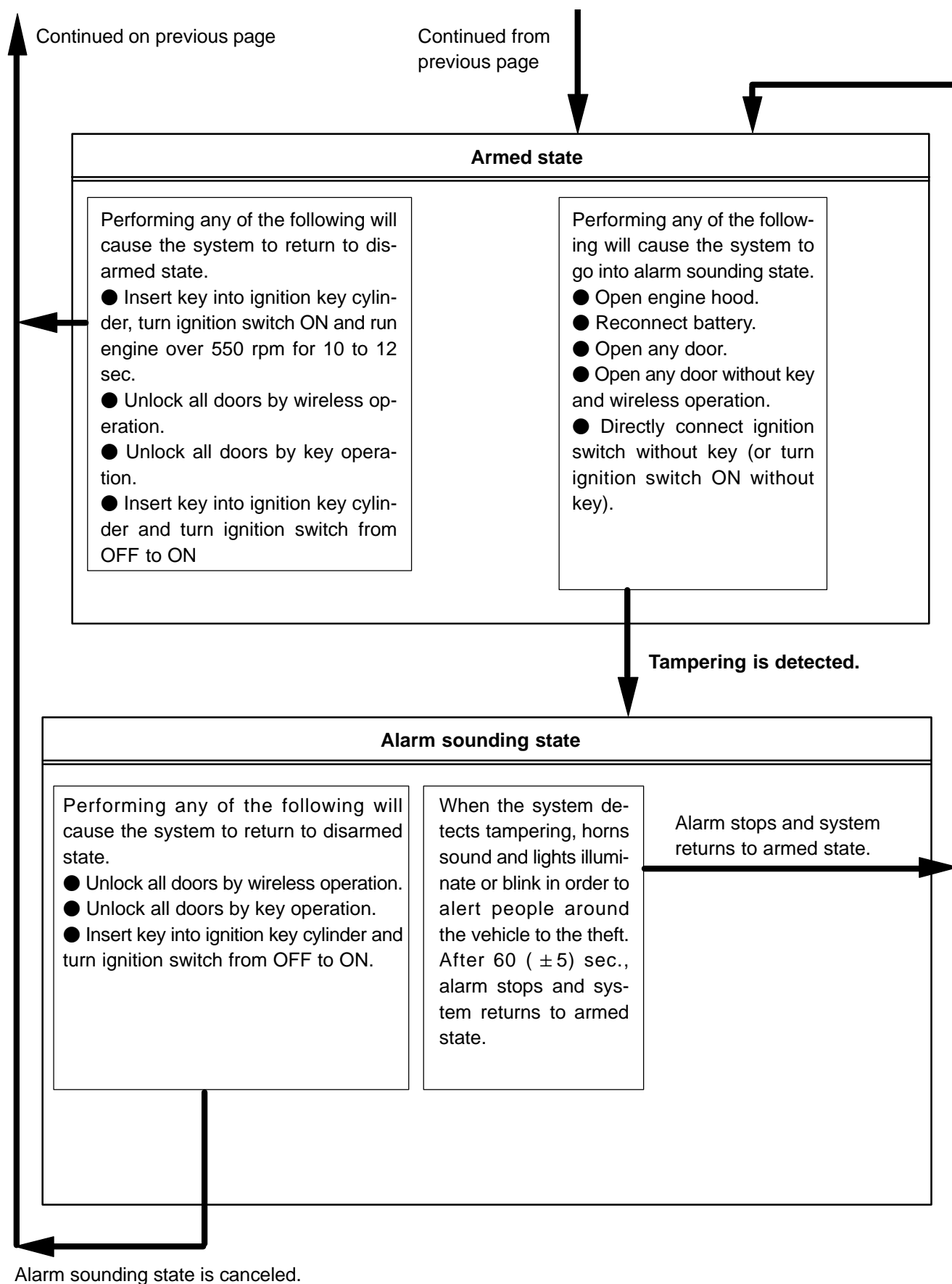
HINT:

If any of the doors is unlocked and there is also 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 right when the doors are locked.



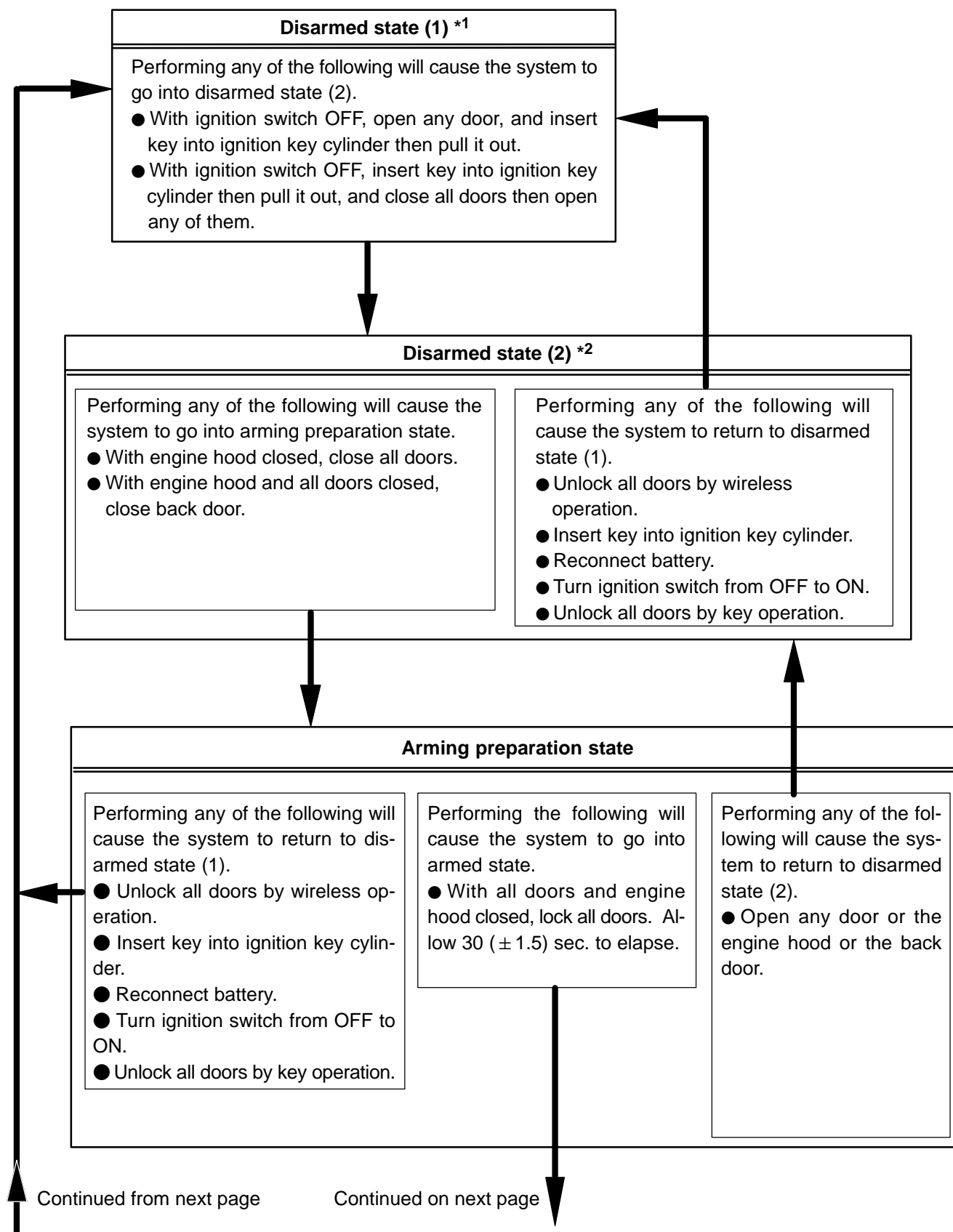


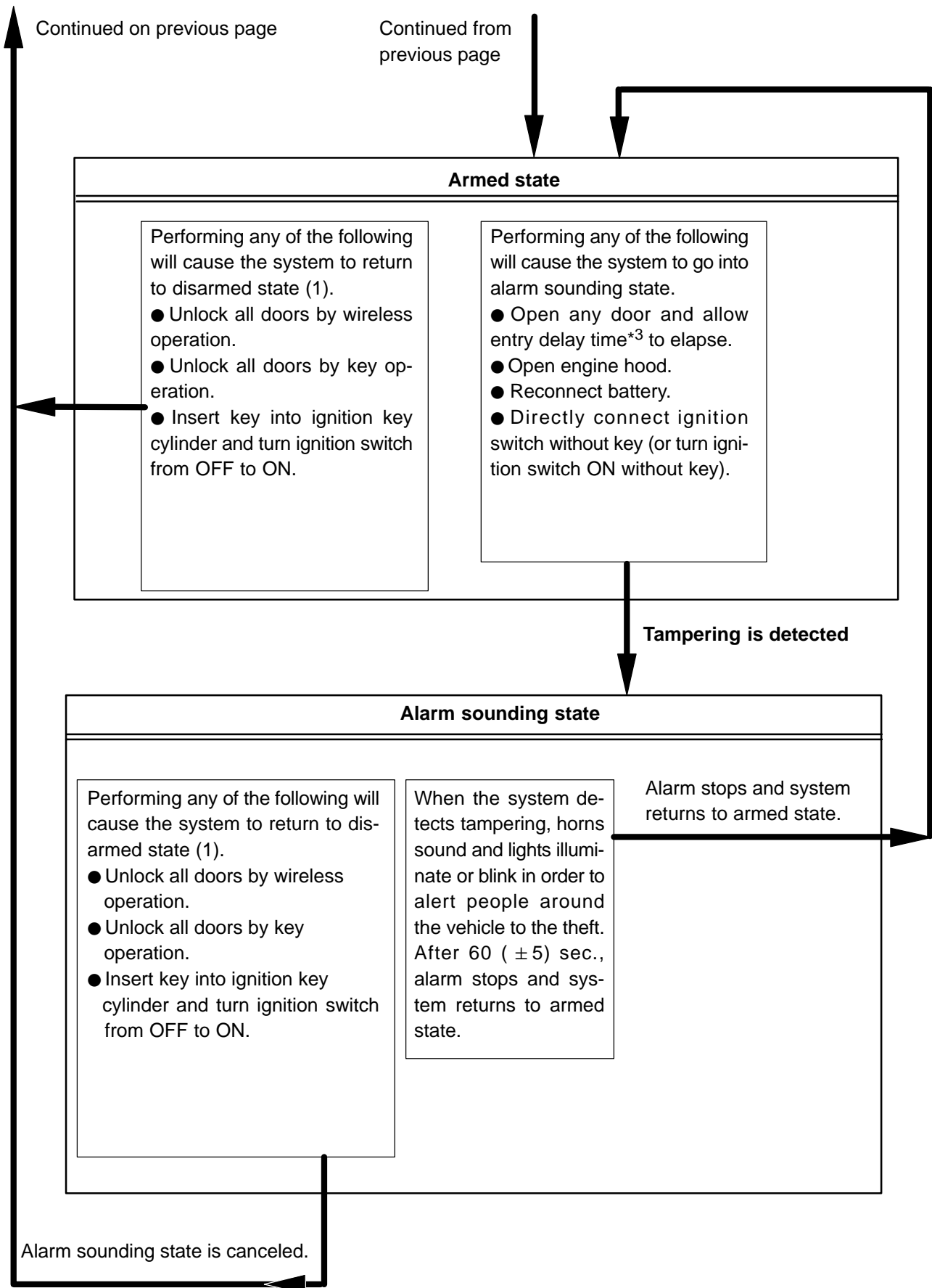
3. PASSIVE ARMING MODE

- Passive arming mode can be switched ON/OFF by the specified method (See step 4).
- The mode set initially (shipped from factory) is active arming mode (not passive arming mode).
- During passive arming mode, the theft deterrent system goes into the armed state even if the doors are not locked.
- Passive arming mode starts the alarm control after the key is removed from the ignition key cylinder and the doors are closed.
- Detecting that the doors are unlocked does not set off the alarm during passive arming mode.
- A forced door lock signal is not output during passive arming mode (See step 5).
- When the theft deterrent system detects that the doors are opened during passive arming mode, the alarm is not set off immediately because an entry delay time is set.
- If any of the following conditions is fulfilled during passive arming mode, the theft deterrent system will switch to active arming mode.
 - With all doors and engine hood closed, lock all doors by key operation.
 - With all doors and engine hood closed, lock all doors by wireless operation.
 - Lock all doors without using key and perform either of the following.
Open any door or the engine hood and then close them all and lock all doors. / Leave all doors locked and engine hood closed.

*1: Disarmed state (1) is the normal disarmed state.

*2: Disarmed state (2) is set from either the disarmed state (1) or the arming preparation state.

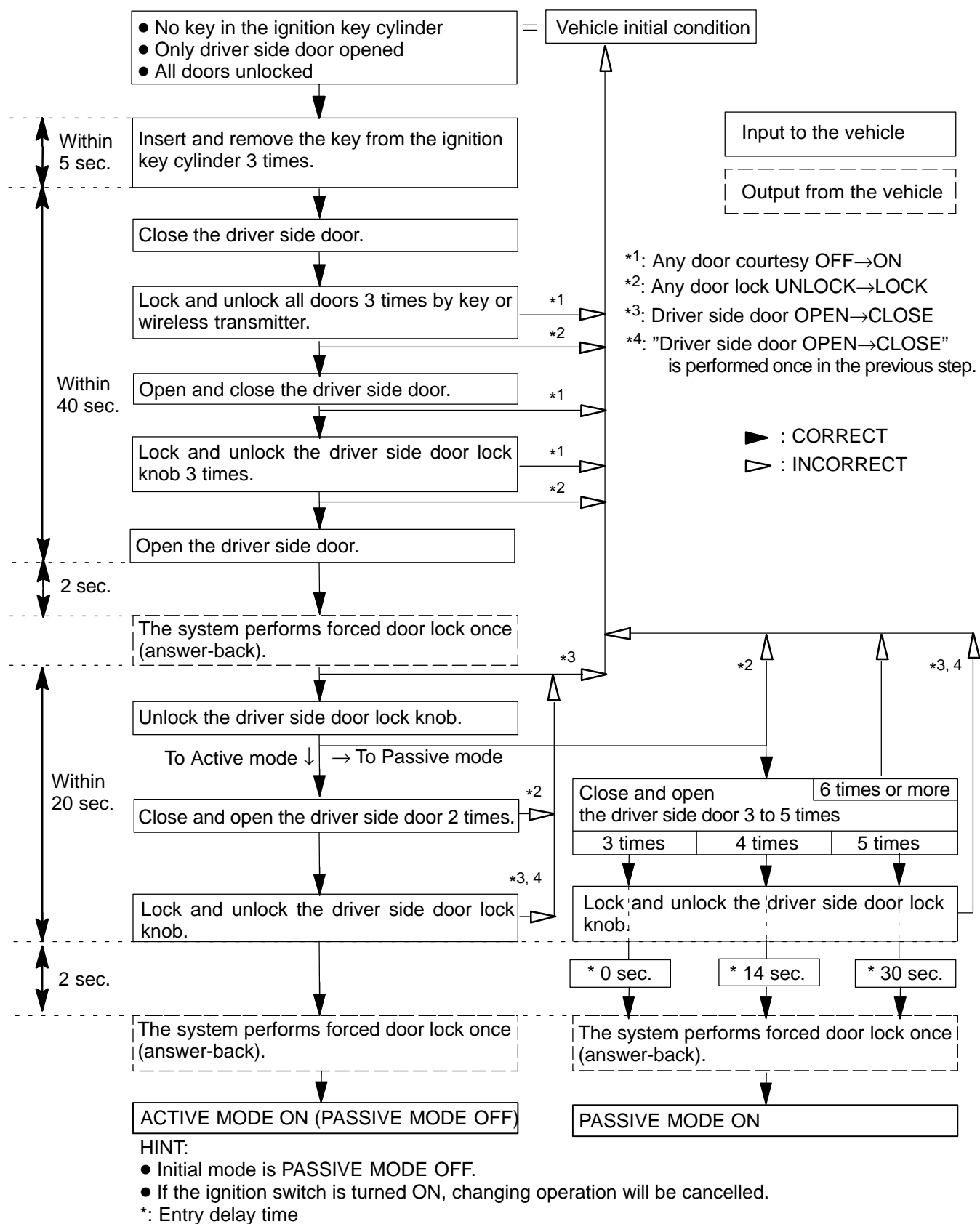




*3: When any door is opened while all the doors are closed during the armed state in passive arming mode, the entry delay time starts. If the switch condition (armed state → disarmed state (1) or (2)) is fulfilled during the entry delay time, the theft deterrent system will return to the disarmed state (1) or (2). However, if the switch condition to the disarmed state (1) or (2) is not fulfilled, the theft deterrent system will recognize it as a theft and go into the alarm sounding state.

Entry delay time of 0, 14 or 30 sec. can be selected by the customizing function.

4. CHANGING METHOD OF PASSIVE MODE (ON or OFF)




5. FORCED DOOR LOCK CONTROL

- (a) The forced door lock control prevents the vehicle from being tampered with. Immediately after a door is unlocked (alarm starts), the door is forced to lock by a forced door lock signal.

(1) Conditions that force the doors to lock:

When no key is in the ignition key cylinder and 0.4 second has elapsed after the previous output of a forced door lock signal, the doors will be forced to lock if any of the following conditions is fulfilled.

- The theft deterrent system is in the armed state of active arming mode.
- All the doors are locked.  Any door is unlocked.
- Any door is unlocked state.

6. ALARM MEMORY FUNCTION

- (a) If the alarm is set off (tampering is detected) while the theft deterrent system is set, the alarm memory function will record it. Whenever you cancel the theft deterrent system, the alarm memory function causes the taillights to light up for 2 seconds in order to inform you that the alarm has been set off.

(1) Conditions of the alarm memory function that cause the taillights to light up:

When the theft deterrent system has entered into the alarm sounding state (tampering has been detected) even once, the taillights will light up for 2 seconds if any of the following conditions is fulfilled.

- Switched to the disarmed state from the armed state during active arming mode.
- Switched to the disarmed state (1) from the armed state during passive arming mode.
- Switched to the disarmed state (2) from the armed state during passive arming mode.

HINT:

Active arming mode: See step 2

Passive arming mode: See step 3

7. PANIC ALARM CONTROL

- (a) The panic alarm control makes it possible for you to voluntarily set off the panic alarm by pressing the PANIC (LOCK) switch on the wireless transmitter. However, this control operates apart from the alarm control by the theft deterrent system (switched to the alarm sounding state from the armed state).
- (1) Conditions that cause the panic alarm control to set off the panic alarm:
The panic alarm control sets off the panic alarm by pressing the PANIC (LOCK) switch on the wireless transmitter over 2.4 seconds under the following conditions.
- The ignition switch is OFF.
 - The theft deterrent system is not in the alarm sounding state (common to active arming mode and passive arming mode).
 - The panic alarm control is not operating (the alarm is not set off).
- (2) Conditions that causes the panic alarm control to stop the alarm:
The panic alarm control stops the panic alarm when any of the following conditions is fulfilled during panic alarm operation.
- The ignition switch is turned ON.
 - Either of the switches on the wireless transmitter (LOCK/UNLOCK) is pressed.
 - The panic alarm ends (60 ± 5 sec. have passed).
 - The theft deterrent system switches to the alarm sounding state (common to active arming mode and passive arming mode). However, the alarm is still sounding, because the theft deterrent system has switched to the alarm sounding state. Conditions for canceling the panic alarm are the same as for the alarm control.

HINT:

Active arming mode: See step 2

Passive arming mode: See step 3

8. SECURITY INDICATOR LIGHT OUTPUT

- (a) The theft deterrent ECU outputs a signal to light up the security indicator light, according to the state of the theft deterrent system. However, some of the actual lighting conditions of the security indicator light are different from the outputs of the theft deterrent ECU.

State of theft deterrent system*	Security indicator light	
	Output signals from theft deterrent ECU	Actual lighting condition
Disarmed state	OFF	OFF (Immobiliser system unset) BLINKING (Immobiliser system set)
Arming preparation state	ON	ON
Armed state	OFF	BLINKING
Alarm sounding state	ON	ON

*: Common to active arming mode and passive arming mode

Blinking cycle:

Time	Security indicator light
0.2 sec.	ON
1.8 sec.	OFF

HINT:

When the immobiliser system is set, the security indicator light blinks during the disarmed state and the armed state, due to the output signals from the immobiliser system.