

American Honda Motor Co., Inc.
1919 Torrance Boulevard
Torrance, CA 90501-2746
Phone (310) 783-2000

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August 3, 2007

NVS-212mjl
EA06-020

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8/9/07

OFFICE OF DEFECTS
INVESTIGATION

Ms. Kathleen C. DeMeter, Director
Office of Defects Investigation
U.S. DEPARTMENT OF TRANSPORTATION
National Highway Traffic Safety Administration
1200 New Jersey Avenue, S.E.
Washington, DC 20590

Dear Ms. DeMeter:

In reply to your letter dated June 28, 2007, we are submitting a final response regarding MY 2004 through 2006 Honda Odyssey vehicles equipped with power liftgates. Honda did not manufacture an Odyssey with a power liftgate for MY 2004, therefore we will not submit any data for this model year.

1. **State, by model and model year, the total number of subject peer vehicles Honda has manufactured for sale or lease in the United States. Separately, for each vehicle manufactured to date by Honda, state the following:**
 - a. **Make;**
 - b. **Model;**
 - c. **Model Year;**
 - d. **Vehicle identification number (VIN);**
 - e. **Date of manufacture;**
 - f. **Date warranty coverage commenced; and**
 - g. **The State in the United States where the vehicle was originally sold or leased (or delivered for sale or lease).**

Provide the table in Microsoft Access 2000, or a compatible format, entitled "PRODUCTION DATA."

Response: The data elements "a" through "g" are filed on the enclosed CD.

Make	Model	Model Year	Sales
Honda	Odyssey	2005	25,227
		2006	23,982
Total			49,209

Source(s): Production records
As of: June 30, 2007

2. **State the number of each of the following, received by Honda, or of which Honda is otherwise aware, which relate to, or may relate to, the subject condition in the subject peer vehicles, by model and model year:**
 - a. **Consumer complaints, including those from fleet operators;**
 - b. **Field reports, including dealer field reports;**
 - c. **Reports involving a crash, injury, or fatality, based on claims against the manufacturer involving a death or injury, notices received by the manufacturer alleging or proving that a death or injury was**

caused by a possible defect in a subject peer vehicle, property damage claims, consumer complaints, or field reports;

- d. Property damage claims;
- e. Third-party arbitration proceedings where Honda is or was a party to the arbitration; and
- f. Lawsuits, both pending and closed, in which Honda is or was a defendant or codefendant.

For subparts "a" through "d" state the total number of each item (e.g., consumer complaints, field reports, etc.) separately. Multiple incidents involving the same vehicle are to be counted separately. Multiple reports of the same incident are also to be counted separately (i.e., a consumer complaint and a field report involving the same incident in which a crash occurred are to be counted as a crash report, a field report and a consumer complaint).

Response: The total number of reports for items "a" through "f" are stated in the table below.

Model	Model Year	A Owner/ Fleet Reports	B Field/ Dealer Reports	C Crash, Injury, Fatality Reports	D Property Damage	E Third-Party Arbitration	F Lawsuits
Odyssey	2005	17	19	1	0	0	0
	2006	3	2	0	0	0	0
Total		20	21	1	0	0	0

Source(s): Customer Relations, Tech Line, Field Reports, Claims and Lawsuits.
 As of: June 30, 2007

3. Separately, for each item (complaint, report, claim, notice, or matter) within the scope of your response to Request No. 2, state the following information:\
- a. Honda's file number or other identified used;
 - b. The category of the item, as identified in Request No. 2 (i.e., consumer complaint, field report, etc.);
 - c. Vehicle owner or fleet name (and fleet contact person), address, and telephone number;
 - d. Vehicle's VIN;
 - e. Vehicle's make, model and model year;
 - f. Vehicle's mileage at time of incident;
 - g. Incident date;
 - h. Report or claim date;
 - i. Whether property damage is alleged;
 - j. Number of alleged injuries, if any;
 - k. Number of alleged fatalities, if any.

Provide the table in Microsoft Access 2000, or a compatible format, entitled "REQUEST NUMBER TWO DATA."

Response: The data elements "a" through "k" are filed on the enclosed CD.

Source(s): Customer Relations, Tech Line, Field Reports, Claims and Lawsuits.
 As of: June 30, 2007

4. State, by model and model year, a total count for all of the following categories of claims, collectively, that have been paid by Honda to date that relate to, or may relate to, the subject condition in the subject peer vehicles: warranty claims; extended warranty claims; claims for good will services that were provided; field, zone, or similar adjustments and reimbursements; and warranty claims or repairs made in accordance with a procedure specified in a technical service bulletin or customer satisfaction campaign.

Separately, for each such claim, state the following information:

- a. Honda's claim number;
- b. Vehicle owner or fleet name (and fleet contact person) and telephone number;
- c. VIN;
- d. Repair date;
- e. Vehicle mileage at time of repair;
- f. Repairing dealer's or facility's name, telephone number, city and state or ZIP code;
- g. Labor operation number;
- h. Problem code;
- i. Replacement part number(s) and description(s);
- j. Concern stated by customer; and
- k. Comment, if any, by dealer/technician relating to claims and/or repair.

Provide this information in Microsoft Access 2000, or a compatible format, entitled "WARRANTY DATA."

Response:

Model	Model Year	Warranty	Goodwill	Extended Warranty
Odyssey	2005	1325	88	0
	2006	123	0	0
Total - 1536		1448	88	0

Source(s): Warranty claim data
As of: June 30, 2007

5. Describe in detail the search criteria used by Honda to identify the claims identified in response to Request No. 4, including the labor operations, problem codes, part numbers and any other pertinent parameters used. Provide a list of all labor operations, labor operation description, problem codes, and problem code descriptions applicable to the subject condition in the subject peer vehicles. State, by make and model year, the terms of the new vehicle warranty coverage offered by Honda on the subject peer vehicles (i.e., the number of months and mileage for which coverage is provided and the vehicle systems that are covered). Describe any extended warranty coverage option(s) that Honda offered for the subject peer vehicles and state by option, model, and model year, the number of vehicles that are covered under each such extended warranty.

Response:

Search Criteria: Using 2005-2006 Odyssey warranty data, claims were pulled based on the tailgate strut and attached component part numbers.

Coding and descriptions: See Attachment #5A and #5B

Warranty Coverage:

The 2005-2006 Odyssey is covered by a new vehicle limited warranty for three years or 36,000 miles, whichever comes first. Under the terms of the new vehicle limited warranty, Honda will repair or replace any part that is defective in material or workmanship under normal use. This warranty covers all systems except emission control systems, powertrain, accessories, battery, seat belts or tires, which have their own warranties.

Honda has not issued extended warranty coverage related to the alleged defect in the subject vehicles.

Source(s): Warranty Claim Data
As of: June 30, 2007

6. Describe the design and operation of the power liftgate feature in the subject peer vehicles including any build-in safety and failsafe features.

Response: See Attachment #6

Sincerely,

AMERICAN HONDA MOTOR CO., INC.



William R. Willen
Managing Counsel
Product Regulatory Office

WRW:nis

Attachments

023199	DOOR-EDGE GUARD STRAIGHT TIME - REPLACE
414097	FRONT DAMPER - PARTS ONLY
414199	FRONT DAMPER - STRAIGHT TIME - REPLACE
721199	TRUNK LIGHT - STRAIGHT TIME - REPLACE
8111B4	STAY, REAR BUMPER BOTH - REPLACE. EXCLUDES: PAINTING COST
815199	DOOR, LEFT FRONT - STRAIGHT TIME - REPLACE
817199	DOOR LOCKS - STRAIGHT TIME - REPLACE
8171B6	TRUNK/TAILGATE/HATCH ROOF LATCH - REPLACE
8171B7	TAILGATE LATCH AND CLOSER - REPLACE
819199	DOOR LATCH, RIGHT FRONT - STRAIGHT TIME - REPLACE
823097	REAR COMPARTMENT - PARTS ONLY
823099	REAR COMPARTMENT - STRAIGHT TIME - REPAIR
823125	TRUNK LID/TAILGATE/HATCH SUPPORT, LEFT - REPLACE.
823130	TRUNK LID/TAILGATE/HATCH SUPPORT, RIGHT - REPLACE.
823199	REAR COMPARTMENT - STRAIGHT TIME - REPLACE
8231B5	TRUNK/TAILGATE/HATCH OPENER ACTUATOR - REPLACE
8231G1	TRUNK/TAILGATE/HATCH HINGES, BOTH - REPLACE
8231H7	TRUNK/TAILGATE/HATCH HINGE "A", LEFT - REPLACE.
8231K0	POWER TAILGATE CONTROL UNIT - REPLACE.
823505	CODES/OPERATING DATA/INITIALIZATION - RETRIEVE OR CLEAR CODES WITH THE PGM TESTER OR HONDA DIAGNOSTIC SYSTEM. ACCESS FLASH CODES WITH SRS INDICATOR LIGHT. INITIALIZE RESTRAINT/SRS SYSTEM. PERFORM INPUT TESTS.
824199	WINDOW MOLDINGS - STRAIGHT TIME - REPLACE
826199	DOOR GLASS AND HARDWARE, LEFT FRONT - STRAIGHT TIME - REPLACE
829199	DOOR GLASS W/HARDWARE, LEFT REAR - STRAIGHT TIME - REPLACE
857099	INTERIOR TRIM - STRAIGHT TIME - REPAIR

Attachment #5B
Problem Code and Description

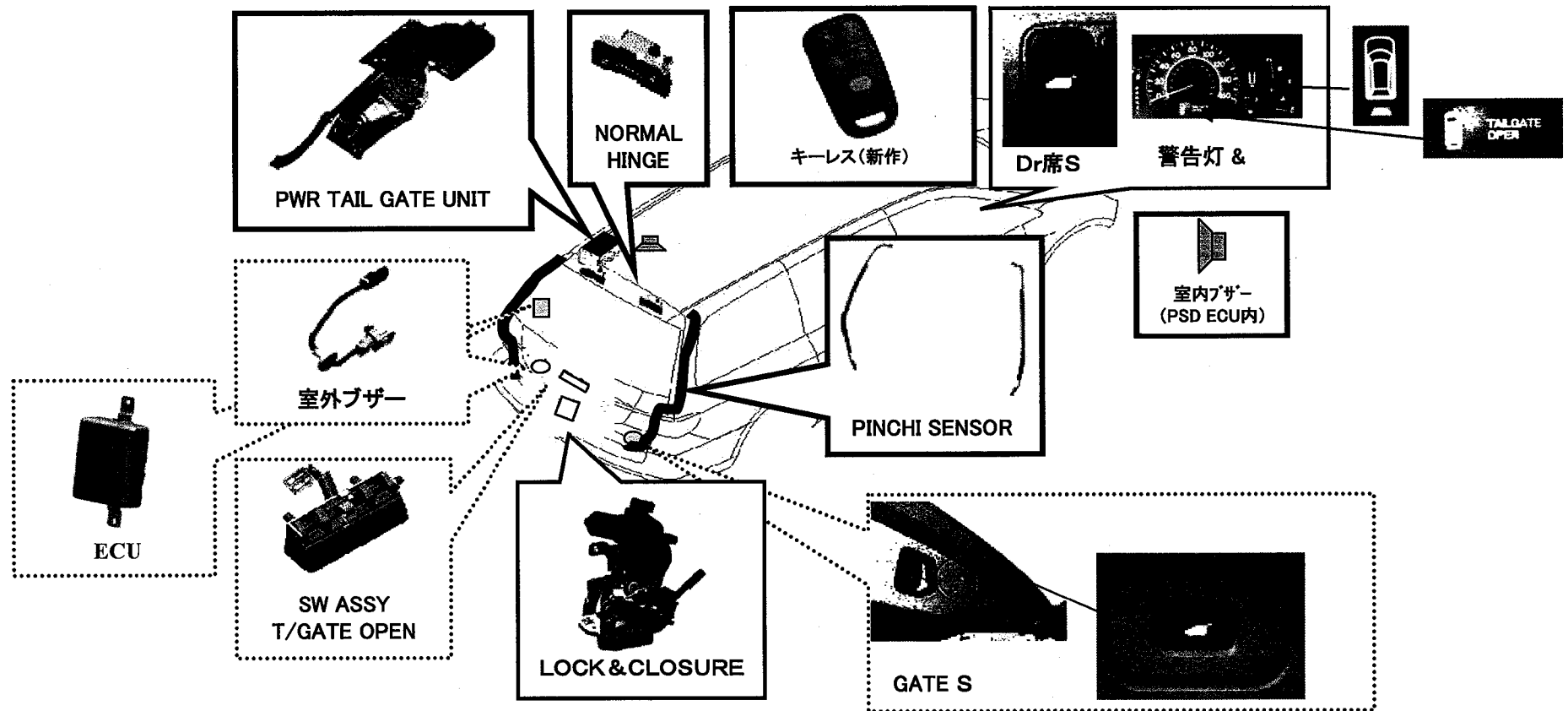
00201	BENT
00401	DISTORTED
00504	PREMATURE WEAR & TEAR
01101	PERMANENT SET-IN FATIGUE
01102	DETERIORATED
01801	BROKEN
02301	SEIZED
03001	BINDING/STICKING
03214	ERRONEOUS OPERATION
03217	NOT OPERATING
06201	LOOSE (POORLY FITTED)
07403	INTERFERENCE
07404	POOR ASSEMBLY
07405	IMPROPERLY TIGHTENED
07406	IMPROPERLY ADJUSTED
07407	INSUFFICIENT SEALING MATERIAL
07408	IMPROPERLY SEALED
07409	INSUFFICIENT GREASE/OIL
07410	INSUFFICIENT OR NOT INJECTED
07801	PART(S) MISSING
08001	INCORRECT ASSEMBLY

PTG 部品構成と配置図

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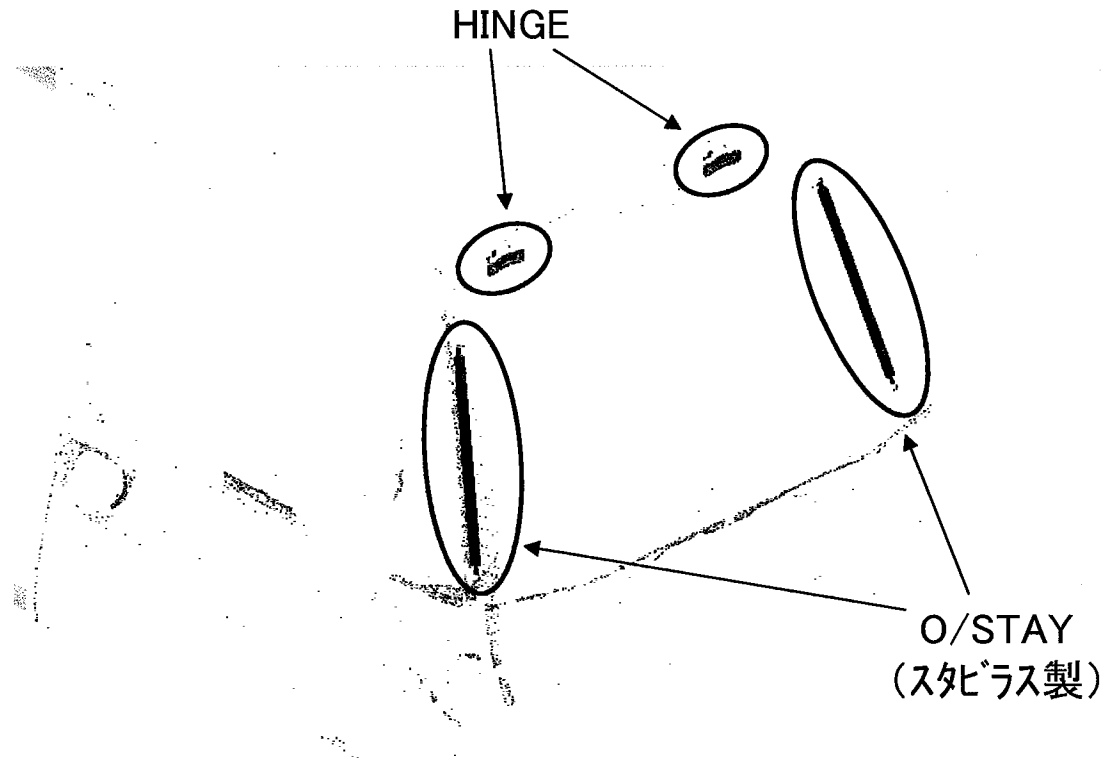


<主要部品と役割>

部品名	役割
PWR TAIL GATE UNIT	T/GATE 自体を OPEN/CLOSE させる UNIT (電磁クラッチ内蔵)
LOCK&CLOSURE	T/GATE ラッチをリリース (アンラッチ)、ラッチさせる UNIT
ブザー	オート作動受付時や異常状態発生時に吹鳴
PINCH SENSOR	オートCLOSE 作動時の挟み込み検出センサ (感圧式)
ECU	PTG システムのコントロール

US ODYSSEYのO/STAY／HINGE配置

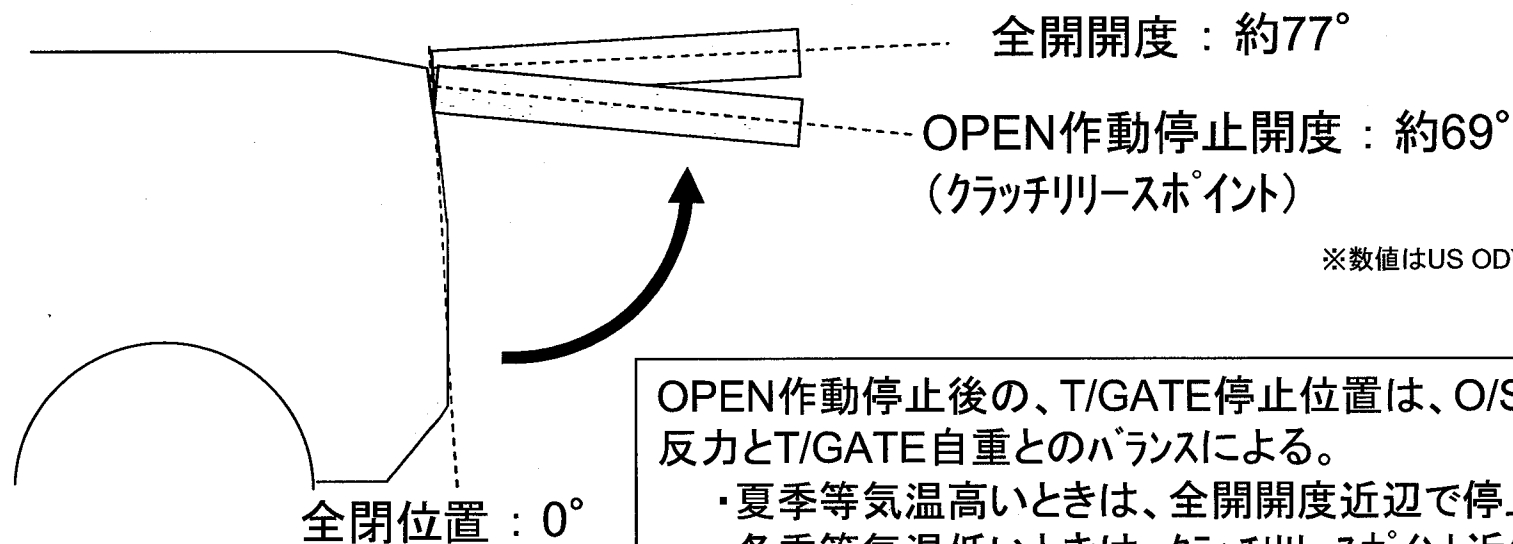
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T/GATE開時、T/GATEの保持はO/STAYの反力による
(PTGシステムではT/GATE保持はしていない)

OPEN作動とT/GATE停止位置

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※数値はUS ODYSSEYの設定

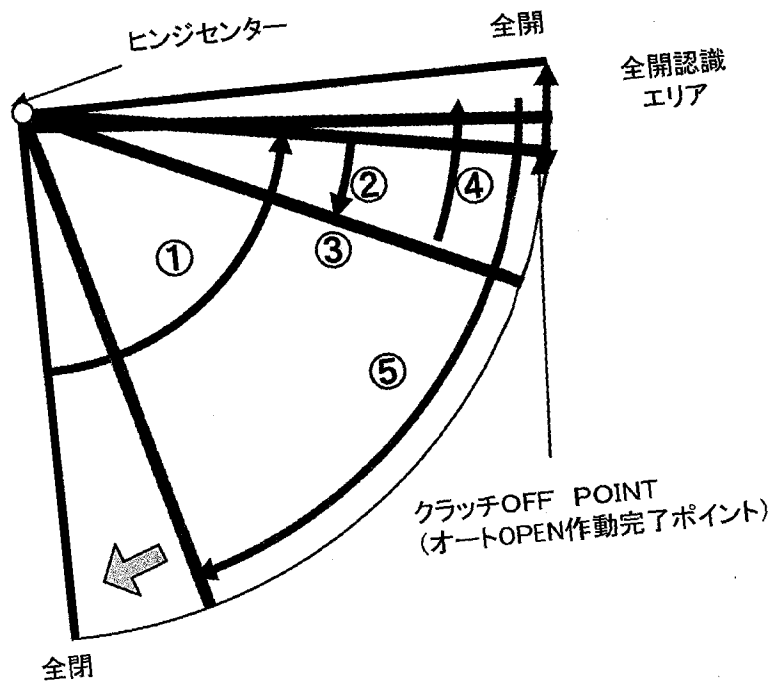
OPEN作動停止後の、T/GATE停止位置は、O/STAYの反力とT/GATE自重とのバランスによる。

- ・夏季等気温高いときは、全開開度近辺で停止
- ・冬季等気温低いときは、クラッチリリースポイント近傍で停止

<OPEN作動の流れ>

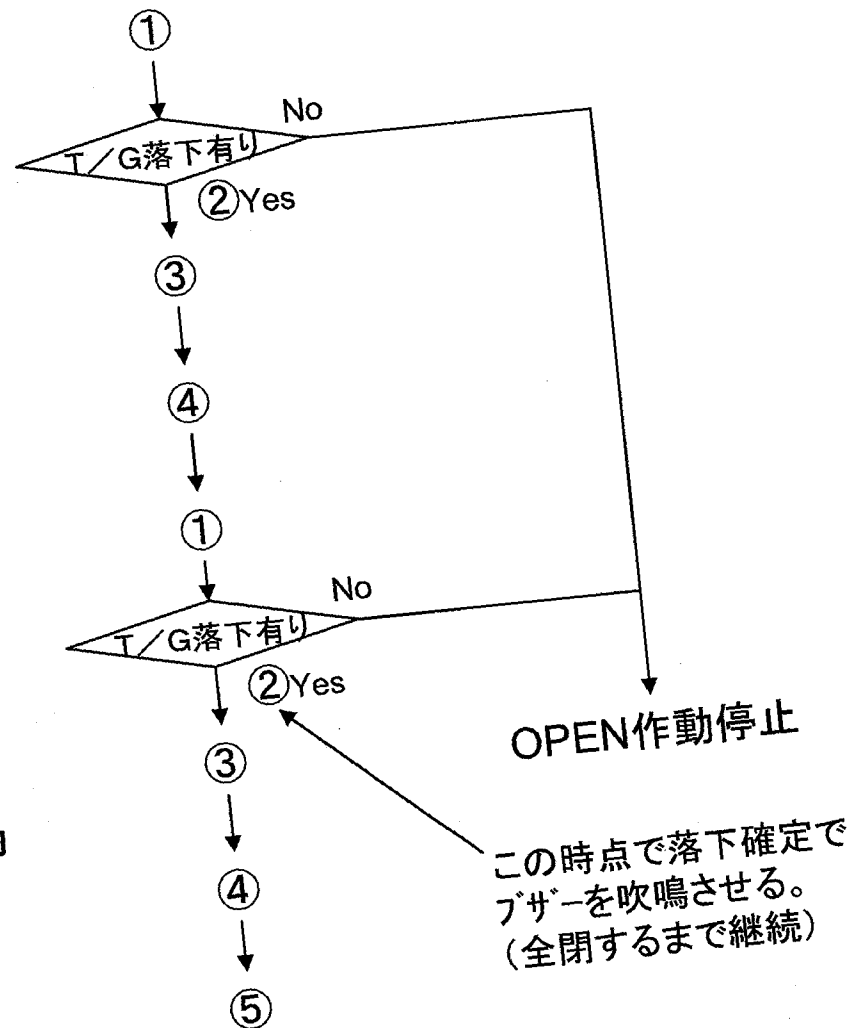
- ① OPEN作動開始
- ② LOCK&CLOSUREにて、ラッチリリース
- ③ PWR TAIL GATE UNITでT/GATEがOPEN作動
(クラッチON → モータON)
- ④ クラッチリリースポイントでOPEN作動停止
(クラッチOFF → モータOFF)

落下検知作動



- ①オートOPEN作動完了
- ②自重でT/GATE落下を検知
- ③クラッチ再接続にてT/GATEの落下を止める
- ④オートOPEN作動...クラッチリリースポイント又は落下開始ポイントまでOPEN作動
- ⑤クラッチリリースポイント又は落下開始ポイントまでOPEN作動してからCLOSE作動し全閉位置で停止

落下検知の流れ



落下防止機構

- ・制御によりT/Gateの落下を検知しオートで閉める(途中、再度テールゲートの落下を確認)

落下防止認知

- ・全開保持出来ず落下し、上下動2回繰り返しオートクローズする(異常な動き)
- ・ブザー連続吹鳴する

挟み込み検知

- ・ピンチセンサー、パルス検知共、閉め方向1回目は検知、2回目の検知で手動モードに入る

総合評価

- ・異常なモードに入る時間が長く、且つ挟み込み検知により逃げる余裕も設定しており総合評価は最も良いと判断する

【補足】ホンダの音響警報及び光学警報について

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HONDAの警報システムについて補足させていただきます。

- ①ドライバー席スイッチ、又はキーレスでオートOPEN作動／オートCLOSE作動をさせた時(作動を正規に受け付けた時)
音響警報・・・”ピー”と1秒間吹鳴します
光学警報・・・セキュリティの光学警報と同様に、スモールライトが3回点滅します。
- ②T/GATEに取付けられているPTG sw(CLOSE作動専用)でオートCLOSE作動させた時(作動を正規に受け付けた時)
音響警報・・・”ピー”と1秒間吹鳴します
光学警報・・・無し(T/GATE直下でユーザが操作しているため)
- ③落下検知作動しているとき
音響警報・・・”ピ—————”とT/GATEが閉まるまで
(半ドア又は全閉になるまで、又はシステムが停止するまで)連続吹鳴します
光学警報・・・無し

その他としまして、挟み込み検知時や、T/GATEを開けながら走行(走行しようとする)した場合の警報音があります。

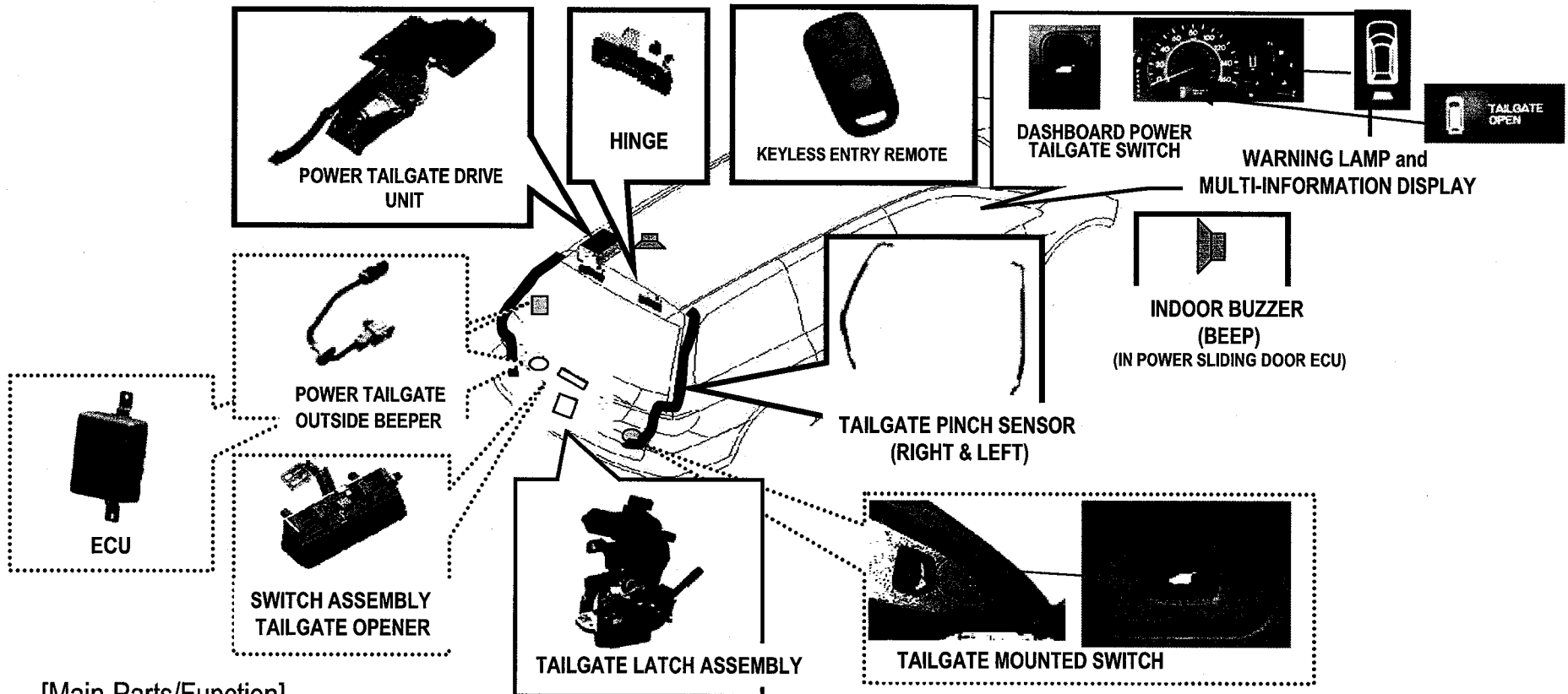
音響警報は、車両外(T/GATE近傍)用として、バンパー内側に取付けられたブザーと、室内用としてはPSD ECU内蔵ブザー(助手席側リヤクォータ部に取付けている)を使用しております。

①、②に関しましては上記、車輛外用のブザーのみが吹鳴しますが、その他ブザーに関しては、外用室内用共に吹鳴します。

以下英訳
English Translation

Power Tailgate Component Formation/Layout drawing

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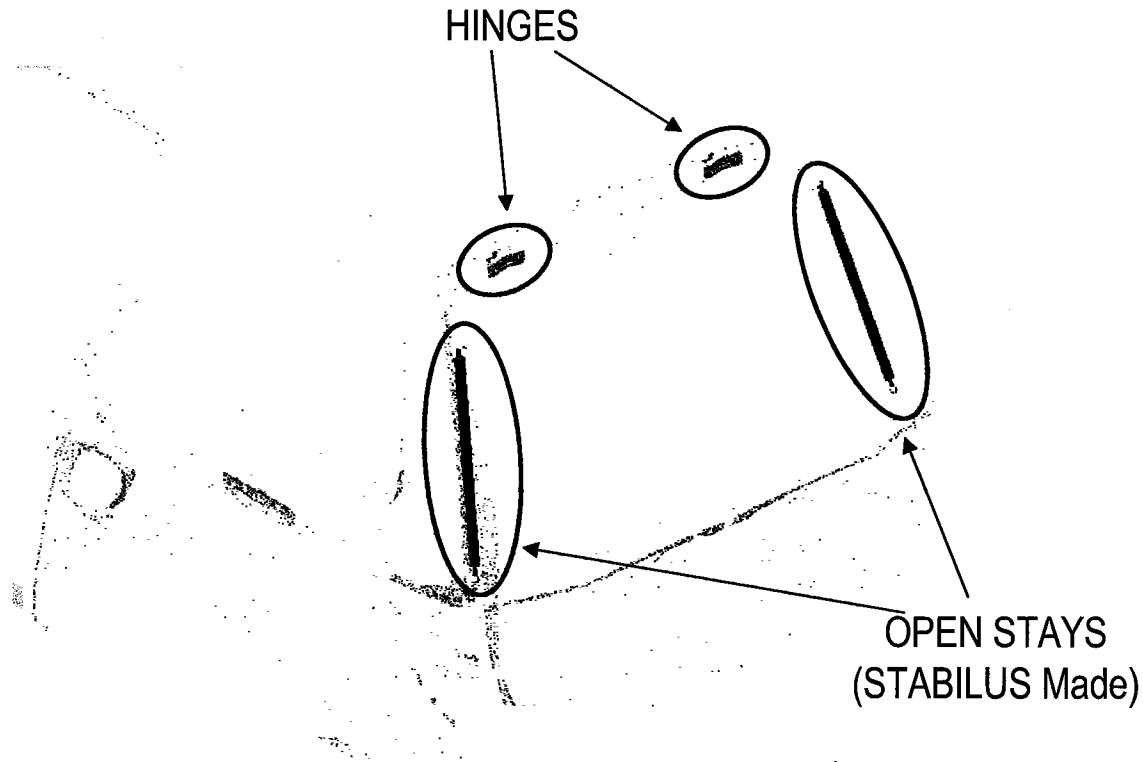


[Main Parts/Function]

Part Name	Function
POWER TAILGATE DRIVE UNIT	Unit that opens or closes tailgate (built-in electromagnetic clutch)
TAILGATE LATCH ASSEMBLY	Unit that unlatches or latches tailgate latch
BEEPER	Beeps during normal activation, when the detection function is activated or during interruption
PINCH SENSOR	Pinch detection sensor (pressure-sensitive type) when activating power closing. Senses obstruction when closing tailgate and reverses motor (opening tailgate) while sounding tone.
ECU	Power tailgate system control

US ODYSSEY: Open Stay/Hinge Layout

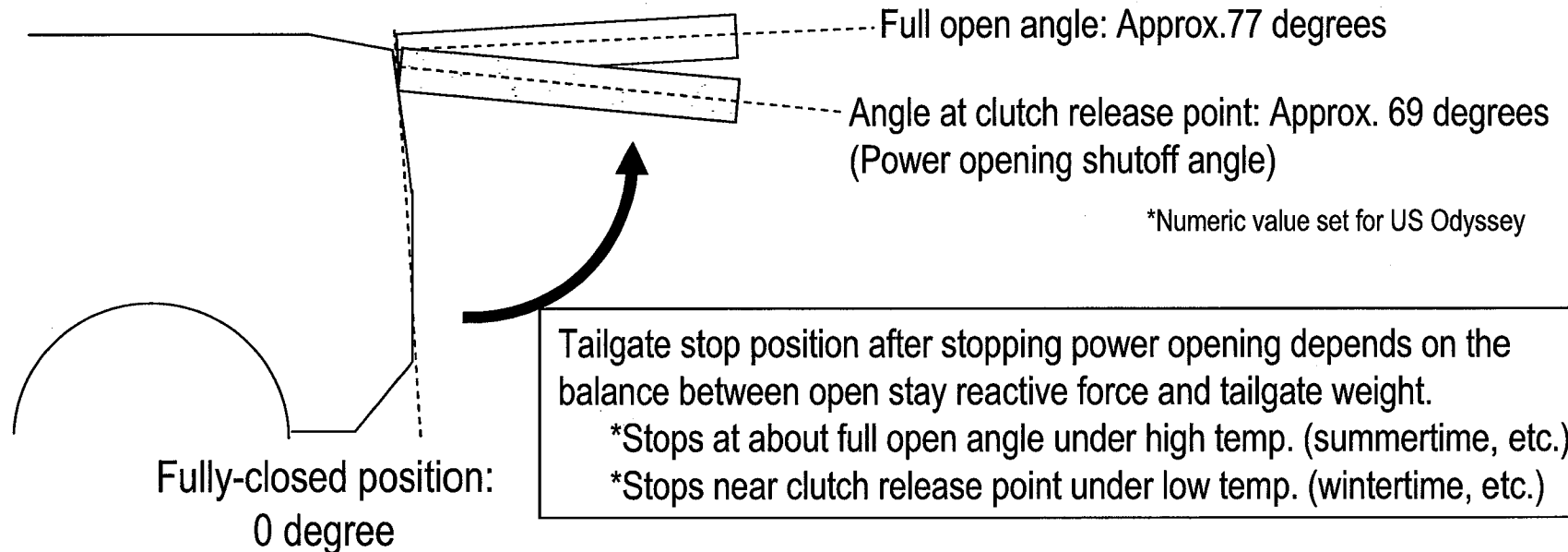
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Open stay supports tailgate when tailgate is in fully open position.
(Power tailgate drive unit does not support tailgate)

Opening Tailgate Stop Position

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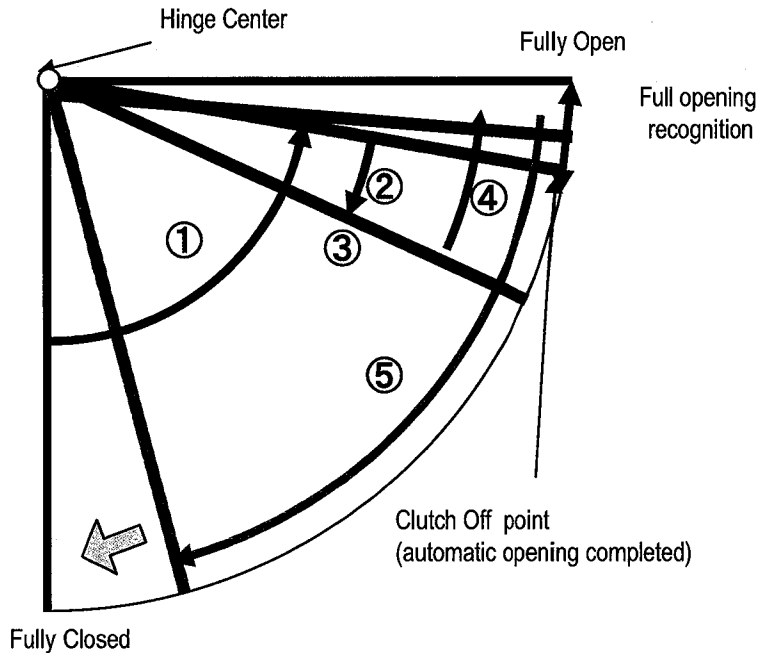


[Opening Procedure]

1. Activate Opening Device
2. Latch Releases by Tailgate Latch Assembly
3. Tailgate Opens by Power Tailgate Drive Unit
(Clutch ON → Motor ON)
4. Opening Stops at Clutch Release Point
(Clutch OFF → Motor OFF)

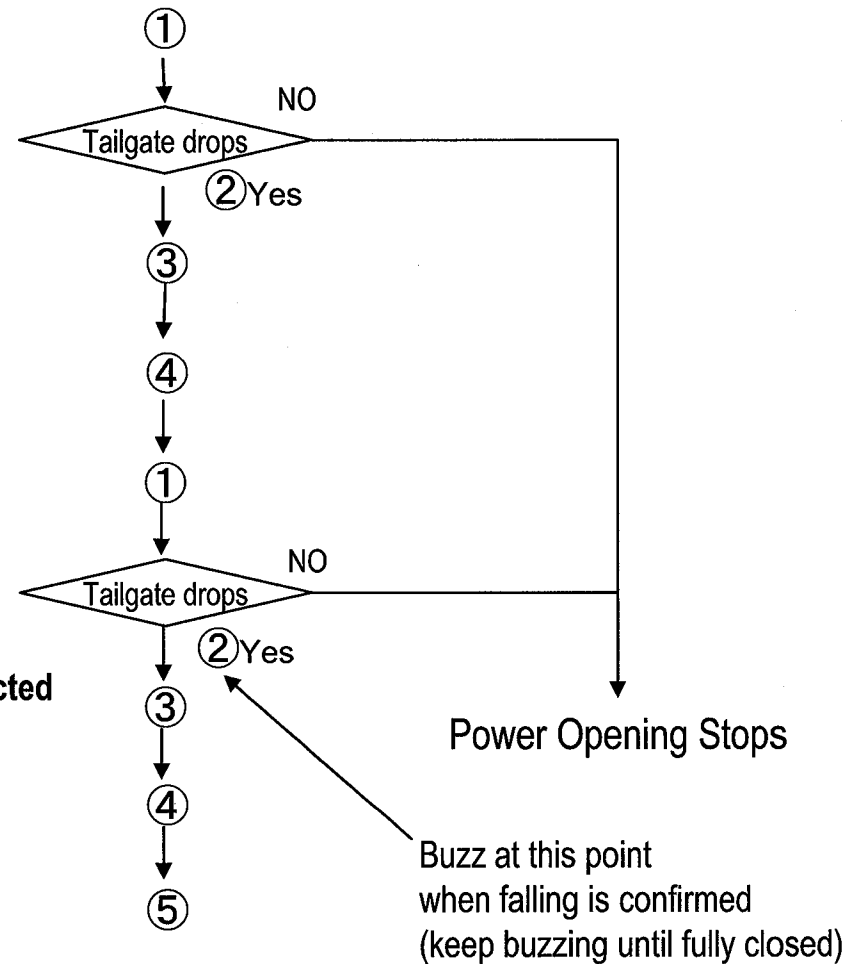
Fall-down Detection Activation

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1. Auto open action completed
2. Tailgate falling is detected
3. Clutch is reconnected to reopen tailgate when falling is detected
4. Auto open action (power tailgate motor reverse action)
Continues to re-open tailgate
5. Close function activated from fully open position.

Drop detection procedure



Anti-drop system

The control system detects fall of the tailgate and the gate is closed automatically. (Fall of the gate is confirmed again while the gate is being closed).

Anti-drop recognition

Tailgate cannot be sustained at full open position and the gate falls. Up-and-down movement (abnormal movement) is repeated twice and the gate is automatically closed. Buzzer sounds continuously.

Pinching detection

Both pinch sensor and pulse detection systems recognize the pinching when it is detected for the first time while the gate is being closed. When the pinching is detected the second time, the systems are switched to the manual mode.

Comprehensive evaluation

It is determined the best overall because extra time is provided for escaping from the falling gate by the time it takes to enter into an abnormal mode and by the pinching detection.

【Supplemental information】 Honda's Sound and Visual Warning Systems

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We are submitting supplemental information on Honda's warning systems

- ① When the gate is opened or closed automatically by operating driver's switch or keyless system
Sound warning... "High-pitched tone" sounds for one second.
Visual warning... Small light flashes three times on the meter panel, which is the same as the visual warning for security.
- ② When the gate is closed by the Power tailgate switch mounted on the tailgate.
Sound warning... "High-pitched tone" sounds for one second.
Visual warning... No warning (because the customer is operating the tailgate just under the gate).
- ③ When anti-drop system is working.
Sound warning... "High-pitched tone" continuously sounds until the tailgate is closed.
(until half-latch or full close, or until the system stops working).
Visual warning... No warning

There are other warning sounds when pinching is detected or the vehicle is driven (or tried to be driven) with the tailgate open.

A buzzer mounted inside the bumper is used for audible warning outside the vehicle (near the tailgate), and another buzzer contained in Power sliding door ECU (which is mounted near the rear quarter glass on passenger side) is for inside the vehicle.

For ① and ②, only the buzzer outside of the vehicle sounds. For other instances both outside and inside buzzers sound.