HONDA

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SUBJECT: POST-COLLISION DIAGNOSTIC SCAN AND CALIBRATION REQUIREMENTS FOR HONDA AND ACURA VEHICLES

It is the position of American Honda that **all vehicles*** involved in a collision† **must** have the following minimum diagnostic scans, inspections, and/or calibrations done to avoid improper repair:

- A preliminary diagnostic scan during the repair estimation phase to determine what diagnostic trouble codes (DTCs) may be present, so proper repairs may be included. (See “Background on Scan Requirements”, below, for more information.)
- A post-repair diagnostic scan to confirm that no DTCs remain. Any repair that requires disconnection of electrical components in order to perform the repair will require a post-repair diagnostic scan to confirm if the component is reconnected properly and functioning. Damage that requires the replacement of body parts always will require a post-repair diagnostic scan.
- Some safety and driver assistive systems will require inspections, calibration, and/or aiming after collision or other body repairs. (See “Inspection/Calibration/Aiming Requirements” on page 2 for additional information.)

Background on Scan Requirements

Honda and Acura vehicles include numerous electronic control systems, including those that operate safety and driver assistive systems. Most of these systems include onboard self-diagnostics that monitor the state of health and/or rationality of input and output circuits.

When monitored circuit values fall outside predetermined thresholds, DTCs may be set in one or more electronic control units (ECUs).

The mechanical forces encountered in a collision can damage electrical circuits and components in ways that are not easily diagnosed with visual inspection methods.

Here are some other electronic control system self-diagnostic facts:

- The proliferation of electronic control systems has increased the number of potential DTCs beyond the point where a dashboard indicator can be installed and/or illuminated for every DTC. Dashboard indicators are intended for driver notification, not vehicle diagnostics.
- Therefore, the presence or absence of dashboard indicators/warning lights is **not** an acceptable method to determine if post collision diagnostic scans are necessary.

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*Refers to any model year Honda or Acura vehicle that is equipped with a diagnostic port from which DTCs can be retrieved with a physically connected tool. This includes: all 1996 to current model year vehicles, certain 1994 to 1995 model year vehicles that contain a 16 pin OBD2 connector, and certain 1992–1995 model year vehicles that contain a 3 pin diagnostic connector.

† A collision is defined as damage that exceeds minor outer panel cosmetic distortion.

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- Many DTCs **do not** illuminate **any** dashboard indicators, so an electronic control system may operate improperly or be completely inoperative even in the absence of an illuminated indicator.

- Because of the complexities of serial data networking, dashboard indicators that do illuminate may appear unrelated to the actual vehicle problem.

- Some self-diagnostics require multiple failures or other criteria, such as a number of drive cycles, to be met before illuminating any indicators.

- Low battery voltage and/or repair procedures inadvertently may set multiple DTCs. Clear the DTCs, and determine which ones reset after battery voltage is stabilized.

Diagnostic Requirements

American Honda's position is that the **only** way to accurately determine the post-collision status of all Honda and Acura vehicle electronic control systems is with the factory-authorized diagnostic software, i-HDS.

- i-HDS has an All DTC Check feature that will completely scan every equipped electronic control system for DTCs in a single operation.

- American Honda does not test other scan tools or remote diagnostic services and cannot comment on their capabilities or accuracy.

- Diagnostic scan tools or software marketed as "**OEM Compatible** or **OEM-C**" have no history of being tested or validated by American Honda. Consequently, "**OEM Compatible**" or "**OEM-C**" scans should not be acknowledged as a proper OEM Diagnostic Scan for Honda and Acura vehicles. The use of the i-HDS software is the **only** way to perform a proper OEM Diagnostic Scan for Honda and Acura vehicles.

NOTE: Not all electronic control systems can be scanned using i-HDS. For example, Honda LaneWatch™ and certain earlier model air conditioning and climate control systems have self-contained diagnostics that are not accessible using i-HDS. For systems such as these, refer to the published diagnostic procedures in the appropriate service information available on the Honda Independent Repair/Service Information System website: techinfo.honda.com.

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Inspection/Calibration/Aiming Requirements

Safety and driver assistive systems that require inspections, calibration, and/or aiming after collision or other body repairs include, but are not limited to, the following:

System	Abbreviation	Description
Adaptive Cruise Control	ACC	This system helps maintain a constant vehicle speed and a set following interval behind a vehicle detected ahead. For models with the added low speed follow (LSF) feature, if the vehicle ahead slows to a stop, the vehicle with LSF will slow down and come to a stop.
Auto High-Beam	AHB	This system can automatically switch the headlights from low beam to high beam using the multipurpose camera, depending on road conditions, oncoming vehicles, and vehicles ahead.
Blind Spot Information	BSI	This system can detect vehicles in specified alert zones next to the vehicle, particularly in harder-to-see areas commonly known as blind spots.
Collision Mitigation Braking System™	CMBS™	This system alerts you when there is a possibility of a frontal collision with a vehicle or pedestrian detected ahead. It also reduces vehicle speed to help minimize collision severity if a collision appears unavoidable.
Cross Traffic Monitor	CTM	This system monitors the rear corner areas using the BSI radar units when reversing and alerts you if a vehicle approaching from a rear corner is detected.
Forward Collision Warning	FCW	This system alerts you when it determines there is a possibility of a frontal collision with a vehicle detected ahead.
Lane Departure Warning	LDW	This system alerts you when it determines the vehicle maybe unintentionally crossing over detected lane markings.
Lane Keeping Assist System	LKAS	This system provides steering input to help keep the vehicle in the middle of a detected lane and provides tactile and visual alerts if the vehicle is detected drifting out of its lane.
LaneWatch™	LW	This system lets you check the passenger side rear areas on the audio or audio-navigation screen when the right turn signal is activated.
Multi View Camera System	MVCS	This system displays an image of harder-to-see areas commonly known as blind spots from different angles on the center display unit using four cameras.
Road Departure Mitigation	RDM	This system detects if the vehicle is drifting too close to the side of the road without a turn signal and can provide mild steering input to keep the vehicle on the road or braking to help keep it leaving the roadway entirely.

After reconnecting the 12-volt battery:

After collision repairs are complete and the battery is reconnected, some electrical systems may not operate properly. These may include, but are not limited to the following:

- Audio/Navigation system
- Steering Angle Position Sensor
- Engine idle speed learn
- Power window, power tailgate, moonroof, power sliding door position and/or pinch detection
- Keyless access and immobilizer/security system

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Since the reset procedures vary by vehicle and system, enter the vehicle information into *Service Information System* and search the keyword **Reset**. This search will retrieve a list of reset procedures required after parts replacement and/or a battery disconnect. Some reset procedures can be done without special tools. Others may require scan tool software.

Front Passenger's Seat Weight Sensor - Inspections and Calibration:

These sensors control passenger's front airbag operation and the PASSENGER AIRBAG OFF indicator based on the occupant's weight. Like any scale, weight sensors are a precision device.

- The service information may refer to these sensors as the seat weight sensor (SWS) system or occupant detection system (ODS), depending on model and year.

- This inspection requires a scan tool to fully check the seat weight sensor's operation using the following criteria:

  - Empty front passenger seat weight to confirm the sensors can detect this condition

  - Seat weight with a known calibration weight amount if necessary

    - This check **must** be done after **any** collision, regardless of damage, even if no airbags have deployed.

    - The check confirms sensor operation and that no binding or damage exists in the relationship between the seat frame, weight sensors, and floor pan.

Weight sensor calibration also is required when front passenger seat components have been removed or replaced. Refer to the service information for procedures.

Advanced Driver Assistance System (ADAS) Aiming:

Some models use one or more of the following camera and/or radar based driver support systems that require software-based aiming and/or calibration to ensure proper operation after certain components have been removed and/or replaced:

- Adaptive Cruise Control (ACC)
- Collision Mitigation Braking System™ (CMBS™)
- Cross Traffic Monitor (CTM)
- Forward Collision Warning (FCW)
- Lane Departure Warning (LDW)
- Lane Keeping Assist System (LKAS)
- Road Departure Mitigation (RDM)
- Blind Spot Information (BSI)
- LaneWatch™ (Honda Only)
- AcuraWatch™ & Honda Sensing™ (P-ADAS)
- Multi-View Camera System (MVCS - Acura Only)

In addition, these driver assistive systems often will not display DTCs during a vehicle scan unless there is damage to the applicable system, so aiming and/or calibration may be required. Refer to the published procedures on aiming and calibration in the appropriate service information available on *Service Information System* by searching the keyword **Aiming**.

NOTE: Rearview (backup) cameras do not require any aiming procedures after removal or replacement unless the vehicle also is equipped with the Multi-View Camera System (MVCS).

These procedures may require special tools and/or i-HDS to complete. Refer to the service information for specific information.

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The chart below shows damage areas where driver assistive system components may be located in close proximity. Collision damage in these areas should be given particular attention because certain repairs and/or parts replacement may require aiming procedures to be done.

Collision Damage Area	Driver Assistive System Components Affected
Front Bumper and Grille Area	Millimeter Wave Radar Unit Front Camera (w/Multi-View Camera System)
Windshield Area	Multipurpose Camera Unit
Front Passenger's Door/Mirror Area	LaneWatch™ Camera (Honda Only) Right Side Camera (w/Multi-View Camera System)
Driver's Front Door/Mirror Area	Left Side Camera (w/Multi-View Camera System)
Rear Bumper Area	Blind Spot Information System Radar Units Rear Camera (w/Multi-View Camera System)

How To Obtain Service Information, i-HDS Diagnostic Software, and Interface Hardware
i- HDS software, as well as other service information, is available to independent repair facilities and others for use on laptop or desktop computer hardware. These may be purchased in three time intervals: 1 day, 30 days, and 365 days.

NOTE: The i-HDS software requires the use of a Honda/Acura-specific, J2534-compliant vehicle communications interface (VCI) device between the vehicle and your computer, which must be purchased separately. The Denso DST-i is the only factory-approved VCI device for diagnostics and reprogramming.

To purchase i-HDS diagnostic software and/or a VCI device, do the following:

1. Access the Honda Independent Repair/*Service Information System* website: techinfo.honda.com
2. Click the link under the **Diagnostic Tools** heading (near middle of page).
3. Confirm your computer meets the system requirements and/or purchase a VCI device by clicking the link(s) under **Hardware**.
4. Click the link under **Software** to purchase the i-HDS software, and follow the directions.

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