

NHTSA Datasets and APIs

In Support of Open Government Directive

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Ratings

NHTSA's New Car Assessment Program conducts crash tests to determine how well a vehicle protects its occupants during a crash, and rollover resistance tests to determine the risk of a vehicle rolling over in a single-vehicle crash. Also, NCAP conducts advanced driver assistance system tests to determine how well the system avoids a crash.

Background



Metadata



API



Approach A. Get by Model Year, Make, Model

Step 1: Get available vehicle variants for a selected Model Year, Make and Model

Make the request to get the crash tested vehicle variants for the Model Year, Make and Model combination.

- [/SafetyRatings/modelyear/2013/make/Acura/model/rdx](#)

Response Fields: Response is a list of vehicle variants for Model Year, Make and Model with their Vehicle Id and description of the variant.

Working Sample: [JSON](#)

Step 2: Get the Safety Ratings for the selected variant

Now that you have the Vehicle Id of the precise model that you to look up, go ahead and make the request to get the Safety Ratings for the required vehicle variant by passing in the Vehicle Id.

- [/SafetyRatings/VehicleId/7520](#)

Response Fields: Response is a list of Safety Ratings for the given vehicle variant.

Working Sample: [JSON](#)

Approach B. Get by Model Year, Make, Model

Step 1: Get all Model Years

Request a list of available Model Years for a given product type (Vehicle).

- [/SafetyRatings](#)

Response Fields: Response is a list of available Model Years in the repository. Use a Model Year from this list to use in the next step.

Working Sample: [JSON](#)

Step 2: Get all Makes for the Model Year

Request a list of vehicle Makes by providing a specific vehicle Model Year.

- [/SafetyRatings/modelyear/2013](#)

Response Fields: Response is a list of vehicle Makes for that Model Year. Use the Model Year and a Make from this list to use in the next step.

Working Sample: [JSON](#)

Step 3: Get all Model for the Make and Model Year

Request a list of vehicle Models by providing the vehicle Model Year and Make.

- [/SafetyRatings](#)/[modelyear/2013/make/Acura](#)

Response Fields: Response is a list of Safety Ratings for the given Model Year, Make and Model

Working Sample: [JSON](#)

Step 4: Get available vehicle variants for a selected Model Year, Make and Model

Make the request to get the crash tested vehicle variants for the Model Year, Make and Model combination.

- [/SafetyRatings](#)/[modelyear/2013/make/Acura/model/rdx](#)

Response Fields: Response is a list of vehicle variants for Model Year, Make and Model with their Vehicle Id and description of the variant.

Working Sample: [JSON](#)

Step 5: Get the Safety Ratings for the selected variant

Now that you have the Vehicle Id of the precise model that you to look up, go ahead and make the request to get the Safety Ratings for the required vehicle variant by passing in the Vehicle Id.

- [/SafetyRatings](#)/[VehicleId/7520](#)

Response Fields: Response is a list of Safety Ratings for the given vehicle variant.

Working Sample: [JSON](#)

Notes

Color codes to understand each part of the request URL:

- **Red**: Method Name

- **Green:** Applicable parameters

Request parameters and method names are case-sensitive.

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Recalls

Manufacturers who determine that a product or piece of original equipment either has a safety defect, or is not in compliance with federal safety standards, are required to notify NHTSA within five business days. NHTSA requires that manufacturers file a defect and noncompliance report as well as quarterly recall status reports, in compliance with Federal Regulation 49 (the National Traffic and Motor Safety Act) Part 573, which identifies the requirements for safety recalls. NHTSA stores this information and the data can be used to search for recall information related to specific NHTSA campaigns and product types.

Metadata



API



Approach A: Get by Model Year, Make, Model

Make the request to get the recalls for the required combination of Model Year, Make and Model.

- Syntax: `api.nhtsa.gov/recalls/recallsByVehicle?make={MAKE}&model={MODEL}&modelYear={MODEL_YR}`

- Example: [https://api.nhtsa.gov/recalls/recallsByVehicle?
make=acura&model=rdx&modelYear=2012](https://api.nhtsa.gov/recalls/recallsByVehicle?make=acura&model=rdx&modelYear=2012)

Response Fields: Response is a list of recalls for the given Model Year, Make and Model.

Working Sample: [JSON](#)

Approach B: Get by Model Year, Make, Model

Step 1: Get all Model Years

Request a list of available Model Years for a given product type (Vehicle).

- Syntax: api.nhtsa.gov/products/vehicle/modelYears?issueType=r
- Example: <https://api.nhtsa.gov/products/vehicle/modelYears?issueType=r>

Working Sample: [JSON](#)

Step 2: Get all Makes for the Model Year

Request a list of vehicle Makes by providing a specific vehicle Model Year.

- Syntax: api.nhtsa.gov/products/vehicles/makes?modelYear={year}&issueType=r
- Example: <https://api.nhtsa.gov/products/vehicle/makes?modelYear=2021&issueType=r>

Response Fields: Response is a list of vehicle Makes for that Model Year. Use the Model Year and a Make from this list to use in the next step.

Working Sample: [JSON](#)

Step 3: Get all Model for the Make and Model Year

Request a list of vehicle Models by providing the vehicle Model Year and Make.

- Syntax: `api.nhtsa.gov/products/vehicle/models?modelYear={year}&make={make}&issueType=r`
- Example: `https://api.nhtsa.gov/products/vehicle/models?modelYear=2010&make=acura&issueType=r`

Working Sample: [JSON](#)

Step 4 : Get all Recalls for the selected Model Year, Make, Model

Now that you have all three key pieces of information (Model Year, Make, Model), go ahead and make the request to get the recalls for the required combination.

- Syntax: `api.nhtsa.gov/recalls/recallsByVehicle?make={MAKE}&model={MODEL}&modelYear={MODEL_YR}`
- Example: `https://api.nhtsa.gov/recalls/recallsByVehicle?make=acura&model=rdx&modelYear=2012`

Response Fields: Response is a list of recalls for the given Model Year, Make and Model.

Working Sample: [JSON](#)

Approach C. Get by NHTSA Campaign Number

Get all recalls as part of a NHTSA recall campaign number

Request a list of recalls by providing the NHTSA recall campaign number

- Syntax: `api.nhtsa.gov/recalls/campaignNumber?campaignNumber={campaignNumber}`
- Example: `https://api.nhtsa.gov/recalls/campaignNumber?campaignNumber=12V176000`

Response Fields: Response is a list of recalls for the specified NHTSA recall campaign number.

Working Sample: [JSON](#)

Notes

Color codes to understand each part of the request URL:

- **Red:** Method Name
- **Green:** Applicable parameters

Request parameters and method names are case sensitive

Data Dashboard



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Investigations

After a preliminary review of consumer complaints and other information related to alleged defects, NHTSA obtains information from the manufacturer(including data on complaints, crashes, injuries, warranty claims, modifications, and part sales) and determines whether further analysis is warranted. If warranted, the investigator will conduct a more detailed and complete analysis of the character and scope of the alleged defect.

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Complaints

Complaint information entered into NHTSA's Office of Defects Investigation vehicle owner's complaint database is used with other data sources to identify safety issues that warrant investigation and to determine if a safety-related defect trend exists. Complaint information is also analyzed to monitor existing recalls for proper scope and adequacy.

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Manufacturer Communications

All manufacturers of motor vehicles or motor vehicle equipment, including low volume and child restraints, must submit to NHTSA copies of their manufacturer communications sent to dealers, distributors, owners, purchasers, lessors, or lessees regarding any defect, failure or malfunction beyond normal deterioration in use, failure of performance, flaw or other unintended deviation from design specifications whether it is safety-related or not.

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Car Seat Inspection Locator

Car crashes are a leading cause of death and injuries for children. Data show a high number of child car seats are not installed properly. Car seat inspection stations make it easier for parents and caregivers to check to see if their car seat is installed correctly. NHTSA provides information to help people locate a car seat inspection station. Information for each station is reported to NHTSA and we attempt to validate the station locations using a commercial geographic database so that this data will, in most cases, be able to be used for driving directions.

Metadata



API

