

# Parts Compatibility API User Guide

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# Basics - Compatibility Types & Sources of Fitment Data

## Catalog-based

Product can be found in the eBay catalog → Catalog data includes compatible vehicle information

## Tires, Wheels

Specification from catalog product  
e.g. A „Tire“ product has the following Specifications: „265/35R19“

|                              |             |                         |        |
|------------------------------|-------------|-------------------------|--------|
| <b>Blizzak LM-25 w/UNI-T</b> |             |                         |        |
| <b>Manufacturer:</b>         | Bridgestone | <b>Sidewall:</b>        | BW     |
| <b>Tire Type</b>             | Winter      | <b>Rim Width Min:</b>   | 9      |
| <b>Tire Size:</b>            | 265/35R19   | <b>Rim Width Max:</b>   | 10.15  |
| <b>Width:</b>                | 265         | <b>Weight:</b>          | 30 lbs |
| <b>Rim Diameter:</b>         | 19          | <b>Tread Depth:</b>     | 11     |
| <b>Aspect Ratio:</b>         | 35          | <b>Tread Width:</b>     | 10.7   |
| <b>Load Index:</b>           | 94          | <b>Overall Diameter</b> | 9.6    |
| <b>Speed Rating:</b>         | V           | <b>Revs Per Mile:</b>   | 26.4   |
| <b>Speed Rating Number:</b>  | 9           |                         |        |

## Manual process

Product cannot be found in the eBay catalog → Seller needs to provide compatible vehicles manually

Specification, to be entered by the seller manually (through Attributes)

**Tire Width**  
- [v]  
Enter the 1st code from the tire sidewall: 195 / 65 R15 91H

**Aspect Ratio**  
- [v]  
Enter the 2nd code from the tire sidewall: 195 / 65 R15 91H

**Diameter**  
- [v]  
Enter the 3rd code from the tire sidewall: 195 / 65 R15 91H

## Replacement Parts (excluding Tires, Wheels)

List of compatible vehicles from catalog product (e.g. The product „Brake Disc“ fits 47 applications)

**47 Compatible Vehicles** ⓘ

Buyers searching for the following vehicles will find your listing

| Year | Make  | Model  | Trim   | Engine                                                                      |
|------|-------|--------|--------|-----------------------------------------------------------------------------|
| 2008 | Honda | Civic  | LX     | 2.0L I4                                                                     |
| 2008 | Honda | Accord | EX     | 1.8L I4                                                                     |
| 2008 | Honda | Accord | DE     | 1.8L I4                                                                     |
| 2008 | Honda | Accord | LX     | 1.8L I4                                                                     |
| 2008 | Honda | Accord | Si     | 1.8L I4                                                                     |
| 2008 | Audi  | TT     | S-Line | 3.2L V6 Gas DOHC Distributorless Naturally Bosch Motronic SFI Electronic FI |

List of compatible vehicles, to be added by the seller manually

**Specify Part Compatibility** | See help

Match your part to all of the vehicles it fits -- without the length restriction of titles! Enter vehicle information in the fields below, then confirm or modify the results in the list that your selections will create. Please be sure to specify at least one compatible vehicle.

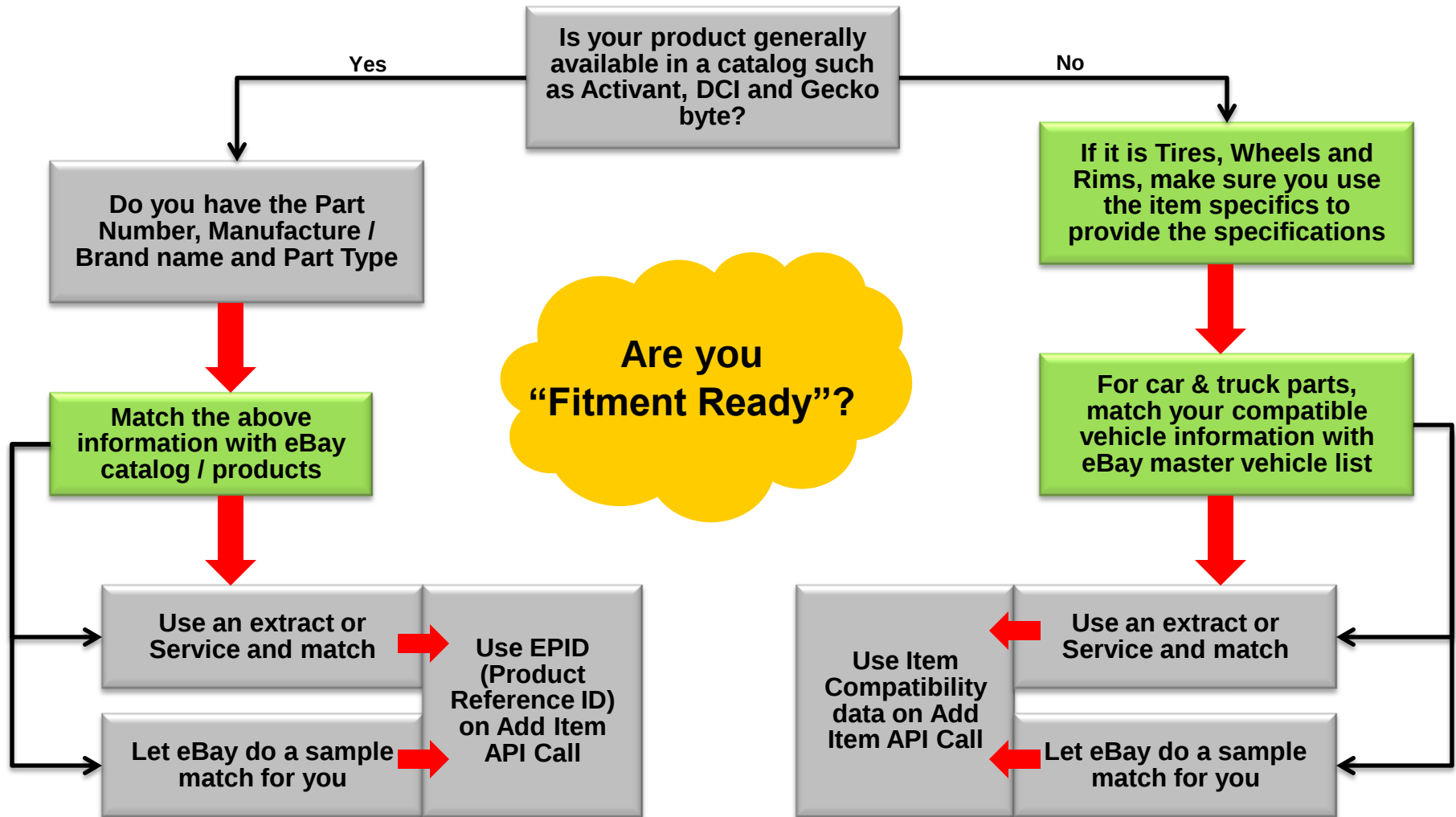
Model Year: [v] Make: [v] Model: [v] Trim: [v] Engine: [v] [Add] [Reset All]

**47 Compatible Vehicles** ⓘ

Buyers searching for the following vehicles will find your listing

| Year | Make  | Model  | Trim | Engine  | Notes                                           |
|------|-------|--------|------|---------|-------------------------------------------------|
| 2008 | Honda | Civic  | LX   | 2.0L I4 | <a href="#">Add Note</a> <a href="#">Delete</a> |
| 2008 | Honda | Accord | EX   | 1.8L I4 | <a href="#">Add Note</a> <a href="#">Delete</a> |
| 2008 | Honda | Accord | DE   | 1.8L I4 | <a href="#">Add Note</a> <a href="#">Delete</a> |
| 2008 | Honda | Accord | LX   | 1.8L I4 | <a href="#">Add Note</a> <a href="#">Delete</a> |
| 2008 | Honda | Accord | Si   | 1.8L I4 | <a href="#">Add Note</a> <a href="#">Delete</a> |

# Fitment Readiness Evaluation for API sellers



# Fitment through eBay APIs

- Learn the basics
  - Get a developer account if you don't already have one
    - <http://developer.ebay.com>
  - Get a sandbox account for testing if you don't already have one (available through the developer.ebay.com portal)
    - <http://sandbox.ebay.com>
- Get involved
  - Join the forum online – send your official email address to [mpatt@ebay.com](mailto:mpatt@ebay.com) to get the invite to join the online forum
  - Access the catalog extracts, eBay master vehicle list and other updates and discussions in the forums
  - Ask questions, post comments, examples and learning's that you can share with the forum
- Contact us for any help – we are here!
  - Mohan Patt – Fitment Technical Lead, [mpatt@ebay.com](mailto:mpatt@ebay.com), 408-376-7006
  - Nishant Asthana – Fitment Engineer, [nasthana@ebay.com](mailto:nasthana@ebay.com), 408-376-5461

# API Docs Online

- Product API Call Reference
  - <http://developer.ebay.com/DevZone/product/CallRef/index.html>
- Product Metadata API Call Reference
  - <http://developer.ebay.com/DevZone/product-metadata/CallRef/index.html>
- Usage Guide
  - <http://developer.ebay.com/DevZone/product/Concepts/ProductAPIGuide.html>
- Download Product Services definition files
  - Product API WSDL
    - <http://developer.ebay.com/webservices/product/latest/ProductService.wsdl>
  - Product Metadata API WSDL
    - <http://developer.ebay.com/webservices/product-metadata/latest/ProductMetadataService.wsdl>

# eBay Product Catalog



- eBay has a catalog of Parts and Accessories which has around 1.2 Million parts
- Each Product in the catalog is represented by an eBay Product Id
- Each Product has a Manufacturer's brand and Part number
- Each Product has 1 or more applications the product fits to
- If eBay Product Reference Id (EPID) is provided during listing an item, all the applications associated with the EPID are automatically attached to the listing
- The EPID can be found by using the Product Services (see next page)

# Product Services

- WSDL can be downloaded from
  - <http://developer.ebay.com/webservices/product/latest/ProductService.wsdl>
- To find the all the EPIDs that match a certain brand and part number use
  - `findProducts` operation
- To find all the applications associated with a product use
  - `getProductCompatibilities` operation
- To find details of an EPID use
  - `getProductDetails` operation
- Example of Service calls
  - [findProducts Request](#) / [findProducts Response](#)
  - [getProductDetails Request](#) / [getProductDetails Response](#)
  - [getProductCompatibilities Request](#) / [getProductCompatibilities Response](#)

# Add Item - Using EPID (Product Reference ID)

<ProductListingDetails>

<ProductReferenceID>74263351</ProductReferenceID>

</ProductListingDetails>

[Example of AddItem Request using EPID](#)

[Example of AddItem Response using EPID](#)

# eBay Vehicle Master List



- eBay maintains a list of all the vehicles manufactured after 1896
- The file, called the Master Vehicle List or MVL contains Year, Make, Model, Trim, Engine and other aspects of the vehicle.
- Product Metadata Service can be used to find details from the MVL
- MVL is used to add applications to the listing manually when the part type is not in eBay's catalog.
- Validate vehicle list combination of year, make, model, trim and engine using the "Product Meta Data Service" using operations such as

# Product Metadata Services

- WSDL can be downloaded from
  - <http://developer.ebay.com/webservices/product-metadata/latest/ProductMetadataService.wsdl>
- To find the various combinations of Year, Make, Model, Trim, Engine supported by eBay use
  - `getCompatibilitySearchValuesBulk` operation
- Examples of Product Metadata Service calls
  - [getCompatibilitySearchValuesBulk Request](#) / [getCompatibilitySearchValuesBulk Response](#)

# Add Item - Using Manual Fitment

[Example of AddItem Request using Manual Fitment](#)

[Example of AddItem Response using Manual Fitment](#)

# Fitment by Specifications

- Tires and Wheels category allows to add fitments using item specifics such as “section width”, “rim diameter”, “aspect ratio” etc
- These attributes have an attribute Id and the group of the attributes belong to an “attribute-set”. A list of attributes and the attribute Ids are given below

| Attr Name     | Attr Id | Attr Value | Attr Value Id |
|---------------|---------|------------|---------------|
| Section Width | 39698   | 215        | 39555         |
| Rim Diameter  | 39118   | 17         | 39599         |
| Aspect Ratio  | 39543   | 45         | 35734         |
| Load Index    | 39545   | 91         | 35780         |
| Speed Index   | 39546   | W          | 39621         |

- These attributes belong to a set of attributes called the attributes set
- List of latest attribute sets and attributes can be found at – [Link to Attr Set](#)

# Add Item Example - Using Specification (Tires)



[Example of AddItem Request using Specifications](#)

[Example of AddItem Response using Specifications](#)

# Deleting and Modifying fitments

- How to delete fitments -> Fitment information can only be deleted one by one. There is no provision to delete fitments in bulk. For example, if you have listed a part with 10 fitments, you will have to delete each and every
- How do I modify an existing fitment -> Unfortunately we don't provide a way to edit fitment information. In order to modify the fitments, you will have to delete the specific fitment and then add a new fitment with the correct info.
- Example of delete fitment

I listed an item on sandbox with the following fitments

| Year              | Make   | Model | Trim             | Engine | Notes                             |
|-------------------|--------|-------|------------------|--------|-----------------------------------|
| 2001<br>Aspirated | Toyota | Camry | CE Sedan 4-Door  |        | 2.2L 2164CC I4 GAS DOHC Naturally |
| 2001<br>Aspirated | Toyota | Camry | LE Sedan 4-Door  |        | 2.2L 2164CC I4 CNG DOHC Naturally |
| 2001<br>Aspirated | Toyota | Camry | XLE Sedan 4-Door |        | 2.2L 2164CC I4 GAS DOHC Naturally |

# Deleting and Modifying fitments

Now if I need to delete the CE and LE models. Here is the request for the same. You will have to specify `<Delete>true</Delete>` at each fitment in order to delete it. You will also need to make sure that make, model, year, trim and engine match EXACTLY the way they have been shown in the listing (assumes that you did a GET ITEM first). If you don't specify Trim and Engine, the system will delete the fitment which has Trim=All and Engine=All.

```
<ReviseltemRequest>
<Item ComplexType="ItemType">
<ItemID>110045054531</ItemID>
<ItemCompatibilityList>
  <Type>NameValue</Type>
  <Compatibility>
    <Delete>true</Delete>
    <NameValueList>
      <Name>Make</Name>
      <Value>Toyota</Value>
    </NameValueList>
    <NameValueList>
      <Name>Model</Name>
      <Value>Camry</Value>
    </NameValueList>
    <NameValueList>
      <Name>Year</Name>
      <Value>2001</Value>
    </NameValueList>
    <NameValueList>
      <Name>Trim</Name>
      <Value>CE Sedan 4-Door</Value>
    </NameValueList>
    <NameValueList>
      <Name>Engine</Name>
      <Value>2.2L 2164CC I4 GAS DOHC Naturally Aspirated</Value>
    </NameValueList>
  </Compatibility>
</ItemCompatibilityList>
</ReviseltemRequest>
```

```
<Compatibility>
  <Delete>true</Delete>
  <NameValueList>
    <Name>Make</Name>
    <Value>Toyota</Value>
  </NameValueList>
  <NameValueList>
    <Name>Model</Name>
    <Value>Camry</Value>
  </NameValueList>
  <NameValueList>
    <Name>Year</Name>
    <Value>2001</Value>
  </NameValueList>
  <NameValueList>
    <Name>Trim</Name>
    <Value>LE Sedan 4-Door</Value>
  </NameValueList>
  <NameValueList>
    <Name>Engine</Name>
    <Value>2.2L 2164CC I4 CNG DOHC Naturally Aspirated</Value>
  </NameValueList>
</Compatibility>
</ItemCompatibilityList>
</Item>
</ReviseltemRequest>
```

# eBay Parts Catalog and MVL

- Although eBay sellers have access to the catalog files and the MVL, sellers are strongly encouraged to use the services.
- Catalog and MVL gets updated at a specific interval (sometimes even outside the interval) and services use the latest version of the catalog/MVL.
- Using services, sellers can make sure they are accessing the latest data
- All catalogs (Parts, Tires & Wheels) and the MVL can be downloaded from
  - [Parts Compatibility Site](#)

# Example - Errors on bad compatibility.

```
<ItemCompatibilityList>
  <Type>NameValue</Type>
  <Compatibility>
    <NameValueList>
      <Name>Year</Name>
      <Value>2009</Value>
    </NameValueList>
    <NameValueList>
      <Name>Make</Name>
      <Value>Hummer</Value>
    </NameValueList>
    <NameValueList>
      <Name>Model</Name>
      <Value>Camry</Value>
    </NameValueList>
    <CompatibilityNotes>Fits for all trims and
    engines.</CompatibilityNotes>
  </Compatibility>
</ItemCompatibilityList>
```

```
<AddItemResponse
  xmlns="urn:ebay:apis:eBLBaseComponents">
  <Ack>Failure</Ack>
  <Errors>
    <ShortMessage>Invalid compatibility
    combination(s).</ShortMessage>
    <LongMessage>One or more compatibility combinations are
    invalid. Name, value, or name-value pair are not
    recognized. [2009][Hummer][Camry]Fits for all trims and
    engines.</LongMessage>
    <ErrorCode>21916724</ErrorCode>
    <SeverityCode>Error</SeverityCode>
    <ErrorParameters ParamID="0">
      <Value>[2009][Hummer][Camry]Fits for all trims and
      engines.</Value>
    </ErrorParameters>
    <ErrorClassification>RequestError</ErrorClassification>
  </Errors>
  <Version>653</Version>
  <Build>E653_CORE_BUNDLED_10549562_R1</Build>
</AddItemResponse>
```

# GetCategoryFeatures (changes for Parts Compatibility)

- GetCategoryFeatures Input for Parts Compatibility
  - The only change to the GetCategoryFeatures request to support Parts Compatibility is the addition new FeatureID values:
    - CompatibilityEnabled
    - MaxCompatibleApplications
    - MinCompatibleApplications
  - GetCategoryFeatures Output
    - Category.ItemCompatibilityEnabled
      - ByApplication, BySpecification, CustomCode, Disabled
    - Category.MaxItemCompatibility
    - Category.MinItemCompatibility
    - FeatureDefinitions – ItemCompatibilityEnabled, MaxItemCompatibility, MinItemCompatibility
    - SiteDefaults– ItemCompatibilityEnabled, MaxItemCompatibility, MinItemCompatibility