

Providing ACES Data to Amazon Automotive

Contents

Overview	2
How Amazon Uses ACES Data	4
The ACES Standard	5
Anatomy of an ACES File	5
Options for Transmitting ACES Data	7
Direct – How to Submit ACES Data	8
Indirect – How to have ACES Data Submitted on your Behalf	9
Appendix A: Using Automotive Fitment Manager to Submit ACES Data	11

1) Overview

Amazon's Part Finder widget relies on ACES data to help customers find parts that fit their vehicle and to allow customers to "check fit" on those parts that are vehicle-specific. Directly providing ACES data to Amazon Automotive requires integration as an ACES data provider which utilizes Amazon's Seller Central platform as a pipeline for transferring ACES data. You can also choose to indirectly send ACES data to Amazon through a 3rd party data provider. You will find information about both of these methods later in this document. ACES data is submitted via XML feeds and flows through a number of systems, the last of which matches ACES data to product data in Amazon's catalog. You can send this data to Amazon using the Automotive Fitment Manager.

It is important to understand that Amazon accepts ACES data from a number of sources. Therefore, do not expect that the ACES data you provide will necessarily be the only ACES data shown for a given product. It is also important to understand that Amazon's part finder system was created around the AAIA ACES standard. If there are vehicle configuration attributes that are not in the AAIA ACES standard but are crucial to describing the fit of a part to a vehicle, this information should be communicated to the AAIA such that the appropriate attributes can be created in the AAIA ACES standard.

Amazon prefers to receive ACES data either directly from a manufacturer/brand owner or from a manufacturer/brand owner approved 3rd party data provider. Therefore, not all vendors/sellers who request to become a direct fitment data provider to Amazon will be accepted. This decision is at the discretion of the Amazon Automotive Part Finder team. In instances where ACES data is not available from either of the two aforementioned sources, then Amazon will consider sourcing ACES data from other entities.

All correspondence relating to ACES data should be sent to automotive-dataprovider@amazon.com.

Please note that if you receive an address undeliverable message, click directly on the email or retype the email address.

Amazon Automotive Fitment

amazon Hello Select your address Automotive Parts & Accessories wiper blades

EN Hello, sign in Account & Lists Returns & Orders Cart

All Clinic Best Sellers Customer Service Amazon Basics New Releases Prime Music Today's Deals Books Registry Fashion Amazon Home Pharmacy Gift Cards One Medical Hot summer deals

Automotive Your Garage Deals & Rebates Best Sellers Parts Accessories Tools & Equipment Car Care Motorcycle & Powersports Truck RV Tires & Wheels Vehicle Showroom

1-24 of over 9,000 results for "wiper blades" Sort by: Featured

Eligible for Free Shipping
☐ Free Shipping by Amazon
Get FREE Shipping on eligible orders shipped by Amazon

Department
Any Department
Automotive
Car Care
Car Electronics & Accessories
Automotive Exterior Accessories
Automotive Interior Accessories

Filter results by your vehicle:
Enter a new vehicle to add it to Your Garage and filter the results below
[Enter a new vehicle](#)

PEAK
Face spring storms head on with better visibility.
[Shop PEAK](#)

Eligible for Free Shipping
☐ Free Shipping by Amazon
Get FREE Shipping on eligible orders shipped by Amazon

Department
Any Department
Automotive
Car Care
Car Electronics & Accessories
Automotive Exterior Accessories
Automotive Interior Accessories
Lights, Bulbs & Indicators
Motorcycle & Powersports
Oils & Fluids
Automotive Paint & Paint Supplies
Automotive Performance Parts & Accessories
Automotive Replacement Parts
RV Parts & Accessories
Automotive Tires & Wheels
Automotive Tools & Equipment
Automotive Enthusiast Merchandise
Heavy Duty & Commercial Vehicle Equipment

Enter a new vehicle
Manage Your Garage
Enter a new vehicle
Select a Vehicle Type
Select Year
Select Make
Select Model
[Filter](#)

Results
5 Wipers Factory Replacement For 2007-2017 VW Volkswagen Tiguan Original Equipment Windshield Wiper

amazon Hello Select your address Automotive Parts & Accessories wiper blades

EN Hello, sign in Account & Lists Returns & Orders Cart

All Clinic Best Sellers Customer Service Amazon Basics New Releases Prime Music Today's Deals Books Registry Fashion Amazon Home Pharmacy Gift Cards One Medical Shop Father's Day gifts

Automotive Your Garage Deals & Rebates Best Sellers Parts Accessories Tools & Equipment Car Care Motorcycle & Powersports Truck RV Tires & Wheels Vehicle Showroom

DETROIT AXLE
Detroit Axle - 330mm Front & 334mm Rear Drilled Slotted Rotors + Ceramic Brake Pads Replacement for Acura MDX ZDX Honda Pilot - 8pc Set
4.7 stars 28 \$256³²

Back to results Sponsored

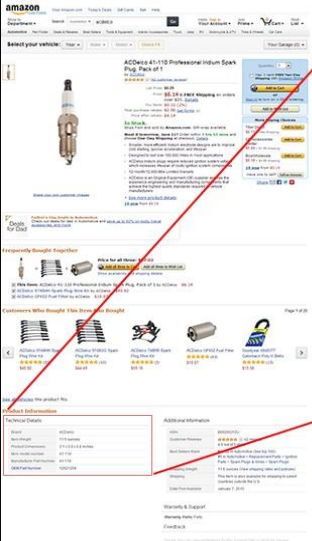
amazonconfirmedfit | This fits 2022 Honda Accord See similar products that fit this vehicle

Bosch ICON Wiper Blades 26A16A (Set of 2) Fits Honda:
16-07 CR-V, Nissan: 14-09 Murano, Subaru: 16-15 Impreza, Toyota: 19-09 Corolla +More, Up to 40% Longer Life, Frustration Free Packaging
Visit the Bosch Automotive Store
4.7 stars 47,384 ratings | 1000+ answered questions
\$79.92

prime
Enjoy fast, FREE delivery, exclusive deals and award-winning movies & TV shows with Prime
Try Prime and start saving today with Fast, FREE Delivery

2) How Amazon Uses ACES Data

ACES data is used for all vehicle-specific automotive products on Amazon.com, regardless of the merchant (a merchant is a party that sells products on the Amazon platform) selling the product. Each product on Amazon has an identifier called the Amazon Standard Item Number (ASIN). A build process “matches” ACES records to ASINs based off of two attributes: brand name and normalized part number. When creating ACES data files it is imperative that the brand label of the four digit AAIA brand code declared in the header, and the part number declared in each application record, matches exactly the values seen on the ASIN’s product detail page. Figure 3 shows an example of how the data must match between values attached to the ASIN (also known as product data) and the values sent in an ACES feed. Product data is controlled by load sheets using Vendor Central (for vendors) or Seller Central (for 3rd party sellers).



Brand	ACDelco
Item Weight	11.5 ounces
Product Dimensions	3.1 x 0.9 x 0.8 inches
Item model number	41-110
Manufacturer Part Number	41-110
OEM Part Number	12621258

ACES Data

```
1 <?xml version="1.0" encoding="ISO-8859-1"?>
2 <ACES version="3.0">
3   <Header>
4     <Company>ACDelco</Company>
5     <SenderName>Joe Smith</SenderName>
6     <SenderPhone>999-999-9999</SenderPhone>
7     <TransferDate>2013-06-01</TransferDate>
8     <BrandAAIAID>BCVC</BrandAAIAID> <!-- BCVC = ACDelco -->
9     <DocumentTitle>Spark Plugs</DocumentTitle>
10    <EffectiveDate>2013-05-01</EffectiveDate>
11    <SubmissionType>FULL</SubmissionType>
12    <VcdbVersionDate>2013-05-31</VcdbVersionDate>
13    <QcdbVersionDate>2013-05-31</QcdbVersionDate>
14    <PodbVersionDate>2013-05-31</PodbVersionDate>
15  </Header>
16  <App action="A" id="1">
17    <BaseVehicle id="28430"/>
18    <Qty>1</Qty>
19    <PartType id="4472"/>
20    <Part>41-110</Part>
21  </App>
22  <Footer>
23    <RecordCount>1</RecordCount>
24  </Footer>
25 </ACES>
```

How ACES Data Matches to Product Data

Normalized Part Number

Part number normalization does the following:

- Converts all alphabetical characters to uppercase
- Removes leading zeros
- Removes punctuation (including spaces)

Important: Brands that use leading zeros or punctuation to distinguish between products must notify Amazon so that further action can be taken to prevent the cross-match of ACES data. Notice in the example below how the different products share the same normalized part number. In these cases, Amazon will use Part Type ID to distinguish between the distinct products when matching ACES data. The table below shows an example of two products within the same brand that share the same normalized part number.

Brand	Part Number	Normalized Part Number	Part Type ID	Part Type
ABCD Auto Parts	03410	3410	7120	Distributor cap
ABCD Auto Parts	3410	3410	5340	Engine oil filter

3) The ACES Standard

- **Format:** Nested XML, one file per brand
- **Data:** Part data (brand name, part number, part type), along with application information— which car, which vehicle attributes, which position on the vehicle does the part fit
- **Vehicle:** The AAIA's Vehicle Configuration database (VCdb) contains a standard list of vehicles, attributes, and configurations that go back to 1896. ACES files map parts to VCdb vehicles. The VCdb is updated monthly and available to AAIA ACES members at www.autocare.org
- **Part Type:** The Parts Configuration database (PCdb) contains a standard list of part types and categories. For example, "brake pad" and "spark plug" are examples of part types. Sometimes part type is referred to as "part terminology". The PCdb is also updated monthly and more details are available here: [https://www.autocare.org/data-and-information/data-standards/databases/product-classification-database-\(pcdb\)](https://www.autocare.org/data-and-information/data-standards/databases/product-classification-database-(pcdb))
- **Brand Name:** The AAIA Brand Table is a repository of Parent, Brand Owner, Brand and Subbrand Labels. Every label is assigned a code which is used to communicate brand information in ACES files. More information about the AAIA Brand Table can be found here: <https://www.autocare.org/data-and-information/data-standards/databases/brand-table> . Amazon requires that the relevant Brand Code is included in the ACES header (see Example ACES Header below).
- More information on the ACES standard can be found at the Auto Care Association/AAIA website: [https://www.autocare.org/data-and-information/data-standards/aftermarket-catalog-exchange-standard-\(aces\)](https://www.autocare.org/data-and-information/data-standards/aftermarket-catalog-exchange-standard-(aces))

4) Anatomy of an ACES File

An ACES file is simply XML with a schema definition (XSD). The main elements of an ACES file are the root element <ACES>, the header section <Header>, the application record section <App>, and the footer section <Footer>. Note that the schema definition is case-sensitive and that the order of tags matters. The schema definition that you need to review and follow is embedded below (*aces3_1.xsd*).

```
<?xml version="1.0" encoding="utf-8"?>
<ACES version="3.0">
  <Header>...</Header>
  <App>...</App>
  ...
  <App>...</App>
  <Footer>
    <RecordCount>...</RecordCount>
  </Footer>
</ACES>
```



aces3_1.xsd

Example ACES Header

```
<Header>
  <Company>ACME Supply</Company>                                <!-- req'd for Amazon -->
  <SenderName>John Doe</SenderName>                             <!-- req'd for Amazon -->
  <SenderPhone>8005551212</SenderPhone>                         <!-- req'd for Amazon -->
  <SenderPhoneExt>4652</SenderPhoneExt>
  <TransferDate>2008-02-22</TransferDate>                       <!-- req'd for Amazon -->
  <MfrCode></MfrCode>
  <BrandAAIAID>BCCR</BrandAAIAID>                               <!-- req'd for Amazon, from the AAIA Brand Table -->
  <DocumentTitle>Hays (File 1 of 2)</DocumentTitle>             <!-- req'd for Amazon -->
  <DocFormNumber>20080222-01</DocFormNumber>
  <EffectiveDate>2008-02-22</EffectiveDate>                     <!-- req'd for Amazon -->
  <ApprovedFor>US</ApprovedFor>
  <SubmissionType>FULL</SubmissionType>                         <!-- req'd for Amazon -->
  <MapperCompany>ACME Data Services</MapperCompany>
  <MapperContact>Jane Doe</MapperContact>
  <MapperPhone>8005551111</MapperPhone>
  <MapperPhoneExt>1234</MapperPhoneExt>
  <MapperEmail>jane.doe@acmedata.com</MapperEmail>
  <VcdbVersionDate>2008-01-31</VcdbVersionDate>                <!-- req'd for Amazon -->
  <QdbhVersionDate>2006-11-15</QdbhVersionDate>                 <!-- req'd for Amazon -->
  <PCdbhVersionDate>2007-12-28</PCdbhVersionDate>               <!-- req'd for Amazon -->
</Header>
```

Example ACES App Records

Using the BaseVehicle Element

```
<App action="A" id="48823">
  <BaseVehicle id="4003" />                                     <!-- 1984 GMC K1500 -->
  <SubModel id="545" />                                         <!-- Sierra Classic -->
  <EngineBase id="63" />                                         <!-- 5.0L V8 -->
  <Note>Super-Truck(TM); Performance Clutch Kit; Diaphragm; 12 in. Dia.; 10 Spline By 1
  1/8 in.; Incl. Pressure Plate/Disc/Throwout Bearing/Alignment Tool</Note>
  <Qty>1</Qty>
  <PartType id="1993" />                                         <!-- Clutch Kit (from AAIA's PCdh) -->
  <Part>90-102</Part>
</App>
```

Using the Year/Make/Model Elements

```
<App action="A" id="48823">
  <Years from="1981" to="1984" /> <!-- 1981 thru 1984 -->
  <Make id="48" />                                               <!-- GMC -->
  <Model id="454" />                                             <!-- K1500 -->
  <SubModel id="545" />                                         <!-- Sierra Classic -->
  <EngineBase id="63" />                                         <!-- 5.0L V8 -->
  <Note>Super-Truck(TM); Performance Clutch Kit; Diaphragm; 12 in. Dia.; 10 Spline By 1
  1/8 in.; Incl. Pressure Plate/Disc/Throwout Bearing/Alignment Tool</Note>
  <Qty>1</Qty>
  <PartType id="1993" />                                         <!-- Clutch Kit -->
  <Part>90-102</Part>
</App>
```

Delete Record

Note that delete records can be sent using the BaseVehicle element or the Year/Make/Model elements. However, please be aware that the delete records submitted must match exactly the original addition records that were sent to Amazon in order for the delete to work.

```
<App action="D" id="1">
  <Years from="1981" to="1984" /> <!-- 1981 thru 1984 -->
  <Make id="48" /> <!-- GMC -->
  <Model id="454" /> <!-- K1500 -->
  <SubModel id="545" /> <!-- Sierra Classic -->
  <EngineBase id="63" /> <!-- 5.0L V8 -->
  <Note>Super-Truck(TM); Performance Clutch Kit; Diaphragm; 12 in. Dia.; 10 Spline By 1
  1/8 in.; Incl. Pressure Plate/Disc/Throwout Bearing/Alignment Tool</Note>
  <Qty>1</Qty>
  <PartType id="1993" /> <!-- Clutch Kit -->
  <Part>90-102</Part>
</App>
```

ACES File Requirements Specific to Amazon

1. BrandAAIAID must be included in the header and must contain the AAIA Brand Code (not parent code nor brandowner code) from the AAIA brand table for the brand for which you are submitting fitment data.
2. All application records that include the Region tag with an id other than "1" will be ignored
3. All application records that include tags such as BodyType with an id that maps to a value of "unknown" or "U/K" will be ignored
4. Currently we treat all ACES feeds as 'update' feeds and only add fitment data to our existing application records database. We don't replace data when we receive 'full' feeds and we require explicit 'delete' records to remove incorrect fitment data from our system. Therefore, we prefer to receive net change ACES files with adds and deletes after you send your initial full file. You can still send full feeds, but please keep in mind that if you need to delete an incorrect record, that can only be accomplished by sending a delete record in your feed that matches exactly the initial add record.

5) Options for Transmitting ACES Data

You have two options for transmitting ACES data to Amazon:

Direct

In the direct method you are responsible for the transmission of ACES data to Amazon. This includes sending ACES data to Amazon on a regular basis through the Amazon Fitment Manager in Seller or Vendor Central. This is the preferred transmission method.

Indirect

In the indirect method you rely on a 3rd party company to handle the transmission of ACES data to Amazon. Amazon works with a number of data services firms, aggregators, and co-ops. You can find a list of these in the "Indirect – How to have ACES Data Submitted on your Behalf" section.

Note that newly uploaded data may take up to 1 week to match to products that already exist on the Amazon.com website. If you are uploading ACES data to match to newly created products on the Amazon.com website, it may take as long as 3 weeks for changes to reflect.

a) Direct - How to Submit ACES Data

You will be able to upload ACES data through Vendor Central or Seller Central directly, depending on which one you use already. You can find more detailed instructions on where to access these in the appendix. Other product data feeds (PIES, images, etc.) cannot be sent via this account.

Preparing to Send ACES Data to Amazon

1. Read through the entirety of this document first
2. Verify that all brand names for which you will be sending ACES data exist in the AAIA Brand Table and, if necessary, add any missing brand names to the table.
3. Ensure all necessary part types exist in the AAIA's PCdb and, if necessary, add any missing part types to the AAIA's PCdb.
4. Prepare an ACES data sample. Include 5-10 application records in the file.
5. Using the "Anatomy of an ACES File" section above, validate that all necessary header elements marked "req'd for Amazon" are present in the sample. Also, compare your application records against the example records in the "Anatomy of an ACES File" section. Finally, be sure you understand the information in the "ACES File Requirements Specific to Amazon" subsection.
6. Validate the ACES data sample against the acs3_1.xsd schema (embedded again below). There are a number of online and offline tools that can validate XML against an XSD – try searching for "XML XSD validator". Here's an example: <http://www.xmlforasp.net/SchemaValidator.aspx>



aces3_1.xsd

7. Correct any errors that result from the validation.

Sending ACES Data to Amazon

Request Access to AFM

1. Read Appendix A of this document. It will help you understand how the Automotive Fitment Manager works.
2. When you are ready to submit ACES data, you can "Request Access" to the Automotive Fitment Manager (AFM) in Seller Central / Vendor Central by following the below path:
 - a. In Seller Central, Inventory > Manage Automotive Fitment Data
 - b. In Vendor Central, Items > Manage Automotive Fitment Data
3. Review any errors that occurred in processing your ACES files by looking in the processing reports when available. If necessary, correct the errors, and re-send these failed records.
4. As changes to your ACES data occur, continue to send net-change feeds (feeds that include adds and deletes) to Amazon through the Amazon Fitment Manager.
5. On an ongoing basis, review any errors that occurred in processing your ACES files.

If your AFM request is rejected and you would like to re-apply, send an e-mail to automotive-dataprovider@amazon.com for assistance.

Notes

1. Please ensure you are accurately mapping products to vehicles in your ACES data.
2. Don't over-map. In other words, only give us the fitment information necessary to fit the product to the vehicle.
3. Please monitor file transmission and resolve data errors (see more below).

Monitoring ACES Processing Reports

Processing reports should be monitored regularly. There are some non-obvious element names in the processing report. This section will outline those element names and show you how you can relate a result record in a processing report to an app record in an ACES feed.

Within the result record of a processing report the key element is the MessageID element. The value in this element corresponds to the id attribute of an app record in the ACES feed file. Also, within the result record of a processing report is the ResultDescription element. The value of this element describes the error that occurred when processing that particular app record.

Looking at XML can be difficult. Moreover, if a processing report has a large number of result records it is cumbersome to see, at a high level, what the big issues are with an ACES feed. Microsoft Excel has an XML map feature that allows you to map elements of an XML document to a flattened structure in an Excel spreadsheet.

b) Indirect – How to have ACES Data Submitted on your Behalf

You can have a third-party automotive data provider create and send fitment data to Amazon on your behalf. We do not recommend one provider over another. Amazon is currently integrated with the data provider services below:

For more information about these providers (and more), visit <https://www.autocare.org/networking-and-development/communities/automotive-content-professionals-network/exhibitor-directory-listing>

Autology

E-mail: info@autologydata.com

Website: <http://www.autologydata.com>

DCi

E-mail: cchat@dcinet.com

Website: <http://www.dcinet.com>

Digital Performance, Inc. (DPI)

E-mail: sales@digitalperformance.com

Website: <http://www.digitalperformance.com>

eCatSolution

E-mail: john@ecatsolution.com

Website: <http://www.ecatsolution.com>

Epicor

E-mail: ken.marshall@epicor.com

Website: <http://www.epicor.com>

eTool Developers

E-mail: luannebrown@etooldevelopers.com

Website: <http://www.etooldevelopers.com>

Illumaware

E-mail: Ralph.bowen@illumaware.com

Website: <http://www.illumaware.com>

JNPSoft

E-mail: ndicenso@jnpsoft.com

Website: <http://www.jnpsoft.com>

MyFitment

E-mail: dhileman@ebay.com

Website: <http://myfitment.com>

Omnitek

E-Mail: sales@omnitekinc.com

Website: <http://www.omnitekinc.com>

Opticat

E-Mail: info@opticat.net

Website: <http://www.opticat.net>

Parts Connect Fitment

Email: info@pcfitment.com

Website: www.partsconnect.us

PartsLogix / idcubed.com, Inc.

Email: info@partslogix.com

Website: <http://www.partslogix.com>

SEMA Data Co-Op (SDC)

Email: JimG@SemaDataCoop.org

Website: <http://www.SemaDataCoop.org>

Solenium Group Inc.

E-mail: cdisano@soleniuminc.com

Website: <http://www.soleniuminc.com>

Vertical Development, Inc.

E-mail: rgarand@verticaldev.com

Website: <http://www.verticaldev.com>

Winsby Group

E-mail: dougw@winsbygroup.com

Website: <http://www.winsbygroup.com>

Appendix A: Using Automotive Fitment Manager to Submit ACES Data

You can access Automotive Fitment Manager through either Vendor Central (Items/Manage Automotive Fitment Data) or Seller Central (Inventory/Manage Automotive Fitment Data). You will see a page similar to the one shown below.

The screenshot shows the 'Dashboard' of the Automotive Fitment Manager. At the top, there are links for 'Dashboard' and 'Help'. Below this is a 'Dashboard' header. A message box says 'Welcome to Fitment Data! Announcements here.' Below that, there's a 'Latest Upload' section. On the left, there's an 'Upload ACES File' box with an upload icon, a button labeled 'Upload files', and text saying 'Drag files here to upload' and '1 GB max file size'. On the right, there's an 'Upload Summary' table with columns: Date, File Name, Status, Success %, Errors %, and Download. The table contains three rows of data. Below the table, there are pagination controls showing '< 1 2 3 4 5 ... 10 >'.

Date	File Name	Status	Success %	Errors %	Download
02/23/2023	automotive1.file.xml	Complete	100%	0%	Report
02/24/2023	automotive2.file.xml	Complete	90%	10%	Report
02/24/2023	automotive3.file.xml	In progress	90%	10%	

Uploading the ACES File

Note that our ingestion system accepts ACES 3.2 XML files, either as plain text or GZip compressed text. Make sure that GZip compressed files end with the extension .gz or .gzip, so that the system can correctly identify them. The maximum file size we accept is 1Gb (uncompressed).

To upload ACES files to Amazon, either drag the files into the box on the left, or click on the “Upload files” button.

Once files are brought into the system, their filename gets changed to reflect the date we started processing them. This makes each file processed by the system unique, so you can feel free to re-use filenames. For example, a file that was originally named sample-aces-feed.xml.gz, would be renamed to 2023-05-06T02-40-48Z_sample-aces-feed.xml.gz.

File Processing

Once the file is uploaded to this tool, it will appear in the Upload Summary box on the right where it will begin to process the data to incorporate it into our fitment database. You can monitor the progress of the process in the status column of that table. When the system is finished processing your original feed file, it will result in one of three statuses.

- **Success:** The feed file was successfully processed.
- **Rejected:** The feed file was rejected prior to processing. This is usually because the file is too large, or is an invalid GZip file.
- **Failed:** Processing of the feed file was unable to complete due to an internal system error.

Once the file is processed, you will be able to download a report that will if there were any errors.