



# DEMYSTIFYING THE PRODUCT INFORMATION EXCHANGE STANDARD

Volume 5: Using PIES for Kit and Set Information



## FOREWORD

### Demystifying the Product Information Exchange Standard (PIES)

The Auto Care Association Product Information Exchange Standard (PIES) is a robust and thorough standard for the exchange of a broad range of Product Information pertaining to the Automotive Aftermarket industry.

The Standard was adopted in its first form in 2004, and several enhancements and additions to the standard have been adopted in the intervening years.

The PIES Standard is a very powerful standard, covering over 180 different data elements that can be transmitted. However, it has never been necessary to use PIES to convey a complete set of data as per the standard. The PIES Standard can be used to convey a number of different types of information, either in a complete file format, or in 'segments', depending upon capabilities of the manufacturer, and the needs of the recipient. In simple terms, PIES can be sent in small 'bites', depending on the needs of the recipient.

While it is a best practice within a manufacturing environment to consolidate source data in a Master Data Management strategy, it is not uncommon for different departments within a data recipient's organization to require its own specialized data, and not a complete Master Datafile. There has been strong adoption within the recipient community to adopt the PIES standard and maintain synchronized data between logistics systems, there are a number of unique 'data recipient points' which all require product information.

For example, the Buyer's department may need a Price File, or an Item Setup File. The Marketing Department may need special market copy, promotional pricing, and additional images or brand logos to set up promotions publishing, and so on. Typically, all these departments require their own distinct data sets. Why not use PIES to send it to them?

The purpose of this series of Whitepapers is to help develop a common understanding that the PIES Standard can be used for special single purpose uses, as opposed to a Master Data File, thus accommodating the needs of the various recipient's constituents.

In this way, companies can use the PIES standard for much smaller-scale initiatives, without heading down the path of a major, Master Data Management initiative.

## Demystifying the Product Information Exchange – Volume 5

The following describes, in non-technical jargon, just how the PIES Standard can be used, what information it can carry, as well as providing some examples of how to use parts of the PIES Standard as 'single purpose' files, meeting the needs of different users.

This is the first in a series of Whitepapers which will provide practical examples of how to use parts of the PIES standard.

Volume 1: Using PIES for Pricing

Volume 2: Using PIES for Product Attributes

Volume 3: Using PIES for Rich Content, and other Market Copy

Volume 4: Using PIES for Images and Digital Content

Volume 5: Using PIES for Kit and Set information

Volume 6: The Description Segment – Definitions and Uses of the Description Codes

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## Introduction

### The Segments of PIES and What They Are Used for

#### Price Sheet Segment

The Price Sheet Segment is used only when Prices are being sent to a recipient.

The Price Sheet Segment identifies, for the recipient, the Price Sheet Name and Number, its Effective and Expiry Date, the Currency in which Pricing is being sent, and to what Zone or Region the Price Sheet applies. If you are sending multiple price sheets for different regions or zones, then you simply create a PIES Price File for each region or Zone. See the section entitled, PIES for Pricing, later in this document.

#### Market Copy Segment

The Market Copy Segment is a new segment of the PIES Standard, and is used to send rich, descriptive content, images, and other digital assets, which relate to the sending Company, its Brand, or a Sub-Brand or Product Category.

The Market Copy Segment is a companion to a PIES File, and its content is generally used by Recipient's Marketing Departments or Webmasters, to gather publishable descriptive copy and images or other digital media, for general contents for websites and other marketing and advertising needs. Company Logos, Warranty Information, Brand Features and Benefits, Instructional Videos, and other such information are typically conveyed in the Market Copy Segment.

#### Item Segment

The Item Segment is the 'meat' of a PIES file, and covers many different areas of part information which are crucial to various parts of the recipient's business. The Item Segment contains a number of sub-segments, each able to provide specific additional information about a part. They include:

##### Description Sub-Segment

The Description Segment contains 15 different ways to describe a part. These descriptions are used in many different ways by recipients.

##### Pricing Sub-Segment

The Pricing Segment is used specifically to send specific pricing information about the product. The difference between the Pricing Segment and the Price Sheet Segment is that the Pricing Segment is intended to send information specific to the part number, as opposed to more 'global'

information, thus giving it flexibility on a part by part basis. Things such as Price Levels, Price Break Quantities, specific effective and expiration dates, publishable and net pricing can be conveyed in the Pricing Segment. See the section entitled, PIES for Pricing, later in this document.

### **Extended Product Information (EXPI) Sub-Segment**

The Extended Product Information Segment, or EXPI Segment, has become an increasingly important and versatile segment of the PIES Standard, handling 7 different extended areas of information requirements for a business.

**Package Segment** – a means to convey packaging dimensions and information at all package levels, from unit package, through cases and pallets, to containers.

**Hazardous Material Sub-Segment** – a means to build and convey an electronic HAZMAT manifest for the product, including all regulatory codes required to ship hazardous material.

**Kit Sub-Segment** – the means by which to send a list of materials contained in a product that is a Kit.

**Part Interchange Sub-Segment** – the means by which to send interchange information specific to a product, including comparative grade levels and comments referable to an interchanged part.

**Digital Assets Sub-Segment** – the means by which to send a wide variety of different types of electronic media, from images to technical drawings, installation instructions, planogram information, or even line art for a product. The technical information that accompanies a 'digital asset' would be used to confirm quality and consistency by the recipient, according to industry best practices, and would be used extensively by a recipient's Webmaster, or Publishing department. The Auto Care Association's Technology Solutions Committee has published a comprehensive document outlining best practices in the conveyance of electronic media, entitled "*Automotive Aftermarket Imaging Best Practices Guideline*".

## **The 3 Things Every PIES File Must Have**

When creating a PIES File, there are three key elements any type of file must have:

1. **Header Segment** – this Segment identifies, at a minimum, what Version of PIES file is being sent.
2. **Item Segment** – this Segment identifies, at a minimum, a Part Number and its Brand, and what the recipient is to do with this information (i.e. Are you sending a record that is being Added, a

record that should be Changed, a record that should be Deleted, or whether this is just a confirmation file and No Change is required.

3. **Trailer Segment** – this Segment identifies how many Part Numbers are being sent in the file, and the date the file was generated.

Every other Segment of a PIES File is optional, depending upon the material you are sending to accompany the Part Record.

## Overview of Kits and Sets Sub-segment

While it is quite well-known that the Product Information Exchange Standard (PIES) is used to convey information pertaining to a Part; what if the Part you are selling is made up of many parts?

The Kits and Sets Sub-Segment of PIES was designed to do just that, and was recently updated to provide even richer content about what makes up a Kit product or a Set product.

### About Kits

A “Kit” is defined as a collection of articles or equipment needed for a specific purpose.

In the automotive aftermarket, a Kit is generally a collection of items needed to perform a service procedure or a cosmetic procedure, like a Gasket Kit; an Overhaul/Rebuild Kit/Repair Kit. It is likely that the Kit contains a grouping of parts required to perform the repair, and may contain accessories such as specific tools, lubricants, hardware or adhesives necessary to complete the repair. In most cases, however, a Kit contains a collection of parts which are normally sold separately, and have been combined in a package for convenience of sale and of performance of the service.



**EXAMPLE – CARBURETOR REBUILD KIT**



**DISC BRAKE  
CALIPER KIT**

A “Set” is defined as a group or collection of things that belong together or resemble one another.

In the automotive aftermarket, a Set may be a similar group of parts, such as a Brake Caliper Set, Air Filter Set, or Differential Gear Set; or it could be a collection of materials or tools which are similar, such as a Tool Set, or a Sandpaper Assortment.



**EXAMPLE – DISC BRAKE SET**



**DISC BRAKE SET CALIPER  
TOOLSET**



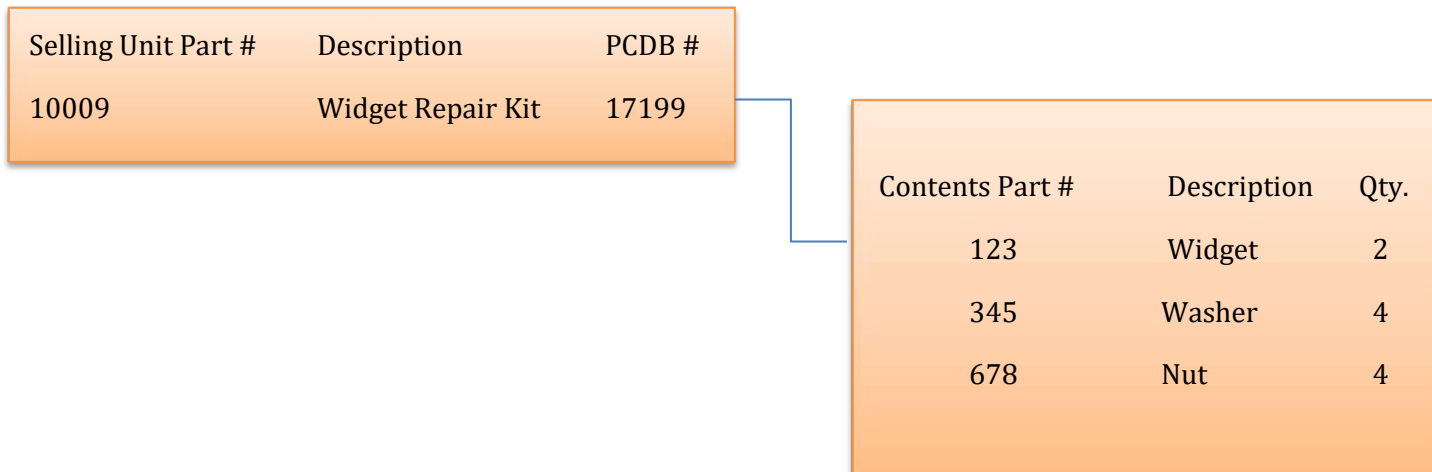
In many cases, a Set of items will include parts which are not sold separately; so there is no data or 'content' available as to what is actually in the set.

The PIES Standard, using the Kits and Sets Sub-Segment, is flexible enough to handle all these variations.

## PIES Kit and Set Content Delivery Methods

Simply put, the Kit and Sets Sub-Segment ties the sellable item part number, to the part numbers and descriptions of the contents. The Kit Sub-Segment provides the Bill of Materials for the Selling Unit.

Regardless of the particular Part Terminologies for the various parts contained in the Kit, the Kit inherits its own Part Terminology and is presented in the PIES file in that manner.



### About Kit/Set Part Numbers

As previously mentioned, a Kit or Set gets described in the PIES Item segment like any other sellable part – by its Catalog Number. There are, in many cases, parts in a kit which are individually sold as well. These parts should be identified with their Catalog Number within the Kit Sub-Segment.

But, there are many circumstances where a component of the kit or set is not individually sold, and does not have a catalog number. An identifier of some sort is required, and the Kit Sub-Segment can accommodate alternate numbers using a 'Qualifier', to identify what the Component's Part Number means. The PIES Standard uses the ANSI X.12, Element 235 table to provide that flexibility.

### ANSI X.12 Component ID Qualifiers - Definitions

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**VC**, or Vendor’s Catalog Number, is the Qualifier which identifies the Catalog Number, or SKU of a part. If a part has a Catalog Number, this implies it can be purchased separate from the Kit or Set.

**VN**, or Vendor’s Item Number, is the Qualifier which identifies the component from an Item List of Bill of Materials or Parts List, usually contained within the Set as a list of ‘Contents’.

**VP**, or Vendor’s Part Number, is the Qualifier which indicates an identifiable number marked on the part, but is not the Catalog Number.

**VS**, or Vendor’s Supplemental Item Number, is an additional Qualifier which can be used at the discretion of the Vendor for basic part identification. It is not used on the Bill of Materials or Parts List.

ANSI X.12 Element 235 - Component ID Qualifiers	
VC	Vendor's (Seller's) Catalog Number
VN	Vendor's (Seller's) Item Number
VP	Vendor's (Seller's) Part Number
VS	Vendor's (Seller's) Supplemental Item Number

Using the Component ID Qualifiers, the data might look like this:

Selling Unit Part #	Description	PCDB #
10009	Widget Repair Kit	17199

The ‘Widget’ contained in the kit has a Catalog Number of ‘123’ and sells on its own; whereas the Washers and Nuts in the Kit are simply items on the Kit List of Materials.

Contents Part #	Component ID	Description	Qty.
123	<b>VC</b>	Widget	2
345	<b>VN</b>	Washer	4
678	<b>VN</b>	Nut	4

## Using PIES to Send Kit or Set Information

The PIES Standard can be used in its entirety, or in parts, to convey critical information to trading Partners. The Kit Segment is intended to enable senders of data to send a complete Bill of Materials (contents) of the Kit or the Set, and tie that information to the selling Part Number (SKU) for the kit or set.

Kit contents are very important to those doing electronic catalogs – having a proper list of contents, descriptions and quantities contained in a kit, makes it very clear for the counterman or the end customer to know exactly what they are buying.

There are only a few fields from a small number of PIES Segments, actually required to send Kit or Set information. They are drawn from the following Segments:

### Header Segment

### Item Segment

### Kit Segment

### Trailer Segment

The following pages will show you how to quickly put together a PIES file for sending Kit or Set information.

### PIES HEADER Segment

A01	Header Segment	KM		<Header>	Example
A02	PIES Version Number	M	ID3/5	<PIESVersion>	6.5
A03	Submission Type	M	ID4/6	<SubmissionType>	FULL
A05	Blanket Effective Date	O	D	<BlanketEffectiveDate>	2009-01-03
A06	Changes Since Date	C	D	<ChangesSinceDate>	2008-12-01
A10	Parent DUNS or DUNS+4	O	ID9/13	<ParentDUNSNumber>	8888888844441
A11	Parent GLN	O	ID13	<ParentGLN>	7777777555551
A12	Parent VMRS ID	O	ID5	<ParentVMRSID>	GIANT
A13	<a href="#">Parent AAAID</a>	O	ID4	<ParentAAAID>	BBCD

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A20	BrandOwner DUNS or DUNS+4	E	ID9/13	<BrandOwnerDUNS>	88888888844441
A21	BrandOwner GLN	E	ID13	<BrandOwnerGLN>	7777777771234
A22	BrandOwner VMRS ID	O	ID5	<BrandOwnerVMRSID>	WONDR
A23	BrandOwner AAIAID	O	ID4	<BrandOwnerAAIAID>	BRST
A30	Buyer DUNS or DUNS+4	O	ID9/13	<BuyerDuns>	88888888844441
A35	Currency Code	O	ID3	<CurrencyCode>	USD
A37	Language Code	O	ID2	<LanguageCode>	EN
A40	Technical Contact Name	O	AN1/60	<TechnicalContact>	John Smith
A41	Contact Email	O	AN1/254	<ContactEmail>	john@smith.com

A01 – **Header Segment**, as previously mentioned, is a Mandatory Segment of any PIES file. The only mandatory items in the Header Segment are the PIES Version Number, and the Submission Type, but there are other important pieces of information which are either conditional, or provide information about the Sender of the file, which should be considered in practice. Use the following basic fields:

- A02 – PIES Version Number
- A03- Submission Type
- A05 – Blanket Effective Date OR A06 – Changes Since Date
- A13 – Parent AAIAID
- A20 OR A21 – BrandOwner DUNS or Brandowner GLN
- A23 – BrandOwner AAIAID
- A40 – Technical Contact Name
- A41 –Contact Email

## PIES ITEM SEGMENT

B01	Item Segment	KM		<Items>	Example
B02	Maintenance Type	M	ID1	<i>MaintenanceType</i>	A
B03	Hazardous Material Code (Y/N)	R	ID1	<HazardousMaterialCode>	Y
B05	Base Item Number	O	AN1/48	<BaseItemID>	HOS100
B10	Item-Level GTIN	O	N12/13	<ItemLevelGTIN>	123456789012
B11	Item-Level GTIN Qualifier	C	ID2	<i>GTINQualifier</i>	UP
B15	Part Number	KM	AN1/48	<PartNumber>	HOS101
B20	Brand AAIAID	M	ID4	<BrandAAIAID>	BBBB
B25	Brand Label	O	AN1/60	<BrandLabel>	Wonderhose
B27	SubBrand AAIAID	O	ID4	<SubBrandAAIAID>	DCBA
B28	SubBrand Label	O	AN1/60	<SubBrandLabel>	
B30	ACES Applications	O	ID1	<ACESApplications>	Y
B32	Item Quantity Size	O	R1/8	<ItemQuantitySize>	16.0
B33	Item Quantity Size UOM	O	ID2	<i>UOM</i>	OZ
B34	Container Type	O	ID2	<ContainerType>	BO (Bottle)
B35	Quantity per Application Qualifier	O	ID3	Qualifier	NOR
B40	Quantity per Application	O	N1/8	<QuantityPerApplication>	12
B41	Quantity per Application UOM	C	ID2	<i>UOM</i>	EA
B45	Item-Level Effective Date	O	D	<ItemEffectiveDate>	2009-01-03
B50	Available Date	O	D	<AvailableDate>	2009-01-03
B55	Minimum Order Quantity	O	N1/8	<MinimumOrderQuantity>	10
B56	Minimum Order Quantity UOM	C	ID2	<i>UOM</i>	EA
B60	Product Group Code	O	AN1/10	<Group>	W12
B61	Product Sub-Group Code	O	AN1/10	<SubGroup>	W123
B62	Product Category Code	O	ID6	<AAIAProductCategoryCode>	330102
B63	UNSPSC Code	O	ID8/10	<UNSPSC>	11223344
B64	Part Terminology ID	O	ID4/5	<PartTerminologyID>	55555
B65	VMRS Code (Heavy Duty)	O	ID9	<VMRSCode>	010456789

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B01- The **PIES ITEM Segment** gives you the means to identify the Part Number for which you are conveying the Price, along with other additional information that may be pertinent for your trading partner to actually use your PIES file. There are three Mandatory elements:

- B02 - Maintenance Type, indicates whether it is an 'Add, or Delete, or a Change to the item itself.
- B15 – Part Number, is the Primary Key for this segment, and must be included.
- B20 – Brand AAIAID, indicates the AAIA Brand.
- B64 – Part Terminology ID, indicates the AAIA Product Classification Data Base (PCdb) Classification Code to which the product belongs.

### PIES KIT Segment

K01	Kit Segment	O		<Kit>	
K02	Maintenance Type	M	ID1	MaintenanceType	A
K03	Component Part Number	KM	AN1/48	<ComponentPartNumber>	HOS001
K05	Component Brand AAIAID	M	ID4	<ComponentBrand>	BFJK
K06	Component ID Qualifier	M	ID2	IDQualifier	VC
K09	Description Code	KM	ID3	DescriptionCode	DES
K10	Description	M	per table	<Description>	6pt-1/4" Drill Bit
K12	Language Code	KO	ID2	LanguageCode	EN
K15	Quantity in Kit	M	N1/8	<QuantityInKit>	1
K20	Quantity UOM	M	ID2	UOM	EA
K30	Sequence Code	O	N1/3	<SequenceCode>	1

K01- The **PIES Kit Segment** gives you the means to send specific information pertaining to the list of materials, descriptions and quantities within a kit.

In all cases, the following PIES fields are the minimum required to send:

- K02 - Maintenance Type, indicates whether it is an 'Add, or Delete, or a Change to the item itself.

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- K03 – Component Part Number, is a Key Mandatory field. This means that, aside from being Mandatory, it ‘loops’ within the segment, so you can input a full list of parts.
- K05 – Component Brand AAIID, is also a Mandatory field. Insert the Brand to which the component is related. This may seem to be redundant, as the Item Brand Code has been conveyed, but consider the possibility of a Kit that contains parts from different Brands within your product offering.
- K06 – Component ID Qualifier, identifies the component either by its SKU (VC); or its number identified on the Bill of Materials (VN); a stamped Part Number on the component (VP); or some other number assigned by the kit producer (VS).
- K09, K10 – Description Code, Description. This is another Key Mandatory Field which permits you to enter descriptions of the component. The most common use Description Code is DES, an 80 character text field; but there is the ability to send multiple descriptions for multiple uses. Please read the companion Whitepaper, **The Description Segment – Definitions and Uses of the Description Codes**, for further information.
- K15 – Quantity in Kit, is a Mandatory field, in which the number of ‘units’ of the component is delivered.
- K20 – Quantity UOM, is also a Mandatory field, in which the ‘unit type’ is conveyed – the most common, of course, is ‘Each’ (EA). Please refer to the PIES recommended codes for Units of Measure, which are drawn from the ANSI x.12 Standard.

**NOTE: There are provisions within this segment for advanced functions such as sending multilingual descriptions, and providing a publishing order for the data. There is further information available on these topics in the PIES Technical Documentation, available from the Auto Care Association.**

**TRAILER Segment**

Z01- The **PIES TRAILER Segment**, is a mandatory segment for every PIES file, and simply provides a) a total count of the ITEM records being sent, and b) the date of the file. Only the Z15 element, Transaction Date, is mandatory.

Z01	Trailer Segment	KM		<Trailer>	Example
Z10	Item Count	O	N1/6	<ItemCount>	352

Z15	Transaction Date	KM	D	<TransactionDate>	2009-01-03
-----	------------------	----	---	-------------------	------------

To close out the Product Kit File, although Z10, Item Count, is optional, we recommend including this in the file to make it easier for your trading partner and you to actually validate the number of records sent.

In summary, use the following basic fields:

Z10 – Item Count

Z15 – Transaction Date

## Putting it All Together – Sending Kit Information in the PIES Standard

Only 22 PIES Attributes are required to build a Kits file. They are:

#	Field Name	Req	Format	XML Elements and Attributes	Example
A01	Header Segment	KM		<Header>	
A02	PIES Version Number	M	ID3/5	<PIESVersion>	6.5
A03	Submission Type	M	ID4/6	<SubmissionType>	FULL
A05	Blanket Effective Date	O	D	<BlanketEffectiveDate>	2009-01-03
A13	<a href="#">Parent AAIID</a>	O	ID4	<ParentAAIID>	BBCD
A20	BrandOwner DUNS or DUNS+4	E	ID9/13	<BrandOwnerDUNS>	88888888844441
A21	BrandOwner GLN	E	ID13	<BrandOwnerGLN>	777777771234
A40	Technical Contact Name	O	AN1/60	<TechnicalContact>	John Smith
A41	Contact Email	O	AN1/254	<ContactEmail>	john@smith.com
B01	Item Segment	KM		<Items>	
B02	Maintenance Type	M	ID1	MaintenanceType	A
B15	Part Number	KM	AN1/48	<PartNumber>	HOS101
B20	Brand AAIID	M	ID4	<BrandAAIID>	BBBB



B64	Part Terminology ID	O	ID4/5	<PartTerminologyID>	55555
K01	Kit Segment	O		<Kit>	
K02	Maintenance Type	M	ID1	MaintenanceType	A
K03	Component Part Number	KM	AN1/48	<ComponentPartNumber>	HOS001
K05	Component Brand AAIAID	M	ID4	<ComponentBrand>	BFJK
K06	Component ID Qualifier	M	ID2	IDQualifier	VC
K09	Description Code	KM	ID3	DescriptionCode	DES
K10	Description	M	per table	<Description>	6pt-1/4" Drill Bit
K15	Quantity in Kit	M	N1/8	<QuantityInKit>	1
K20	Quantity UOM	M	ID2	UOM	EA
Z01	Trailer Segment	KM		<Trailer>	
Z10	Item Count	O	N1/6	<ItemCount>	352
Z15	Transaction Date	KM	D	<TransactionDate>	2009-01-03

## XML Use Case Example

The following example represents how to create the XML to send kit information in PIES.

**Example –** Front Caliper Rebuild Kit

Company: ACME Brakes (AAIA Brand ID WWWW)

PCDB ID – 1720 – Disc Brake Caliper Repair Kit

Kit Part Number – ACM10099

**USE CASE:** Sending four components and an instruction sheet as a Kit Bill of Materials:

Component Part Number	Description	Quantity	UOM	
ZZ000123	Piston O-Ring	4	Each	
ZZ000159	Pressure Seal	4	Each	

ZZ000174	Dust Boot	4	Each	
ZZ000002	Internal Fluid Passage ORing	2	Each	
INS5	Instruction Sheet	1	Each	

**Sample PIES XML**

...

```

<Items>
  <Item MaintenanceType="A">
    <PartNumber>ACM10099</PartNumber>
    <BrandAAIAID>WWWW</BrandAAIAID>
    <PartTerminologyID>1720</PartTerminologyID>
  <Kits>
    <Kit MaintenanceType="A">
      <ComponentPartNumber IDQualifier="VP">ZZ000123</ComponentPartNumber>
      <ComponentBrand>WWWW</ComponentBrand>
      <Description DescriptionCode="DES">Piston O-Ring</Description>
      <QuantityInKit UOM="EA">4</QuantityInKit>
      <ComponentPartNumber IDQualifier="VP">ZZ000159</ComponentPartNumber>
      <ComponentBrand>WWWW</ComponentBrand>
      <Description DescriptionCode="DES">Pressure Seal</Description>
      <QuantityInKit UOM="EA">4</QuantityInKit>
      <ComponentPartNumber IDQualifier="VP">ZZ000174</ComponentPartNumber>
      <ComponentBrand>WWWW</ComponentBrand>
      <Description DescriptionCode="DES">Dust Boot</Description>
      <QuantityInKit UOM="EA">4</QuantityInKit>
      <ComponentPartNumber IDQualifier="VP">ZZ000002</ComponentPartNumber>

```

```
<ComponentBrand>WWWW</ComponentBrand>  
<Description DescriptionCode="DES">Internal Fluid Passage  
ORing</Description>  
<QuantityInKit UOM="EA">2</QuantityInKit>
```

```
<ComponentPartNumber IDQualifier="VS">INS5</ComponentPartNumber>  
<ComponentBrand>WWWW</ComponentBrand>  
<Description DescriptionCode="DES">Instruction Sheet</Description>  
<QuantityInKit UOM="EA">1</QuantityInKit>
```

```
</Kit>  
</Kits>  
</Item>
```

```
</Items>
```

...

## Additional Thoughts for Consideration

When creating PIES Kit files, there are additional elements which can make your product more 'sellable'. You may want to consider the following tips:

### **Adding more descriptions to the Kit Item**

When building a Kit File, you may want to consider adding useful Item descriptions in the ITEM segment; to describe the kit's use. For example, adding the ASM Description to the Item, enables you to provide an application summary (a list of vehicles the kit fits) at the ITEM level. You may also want to provide an extended description (EXT) that identifies narratively, what the kit fits (i.e. This is a complete kit for the front set of calipers).

### **Adding Digital Assets (Images) to the Kit Item**

When building a Kit File, you should consider adding an Out of Package (P01) Image, and an In Package (P02) Image, to the Item file. Remember, 'a Picture is Worth 1000 Words'.

For more information on Descriptions and Images, please read related whitepapers, entitled, **The Description Segment – Definitions and Uses of the Description Codes**, and **Using PIES for Images and Digital Content**.

### **Companion Documents**

There are a number of additional documents on the topic of Product Attributes which will help you create your PIES files. Visit [www.autocare.org/Technology](http://www.autocare.org/Technology) for more information.