

autocare[®] CONNECT

MAY
2022



A night landscape featuring a red tent on a beach. The tent is illuminated from within, casting a warm glow. The beach is dark, and the ocean is visible in the background. The sky is filled with stars, and a bright blue star is prominent on the right side. The overall scene is serene and peaceful.

Get more out of PIES

Jonathan Larsen – Auto Care Association

Introduction



■ Jonathan Larsen

- 20+ years in the Industry
- **Title:** Manager Data Quality Aka Cat Herder
- **Background**
 - Dana – Clevite Engine Parts
 - MAHLE Aftermarket
 - Auto Care Association



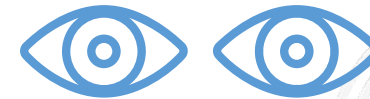
Goal
right part
right place
right time



There is no them, it is us



Look to your left



Look to your right

Overview



- **PIES**

- Brand
- Marketing Copy
- Multi-Purpose Part Types
- Attributes
- Kits
- Interchanges



eLearning Course for ACES & PIES



Total Purchases

313

Course Completes

116

Organizations

122

NEW

Interactive, Self-paced eLearning Course

for ACES and PIES



Visit autocare.org/elearning

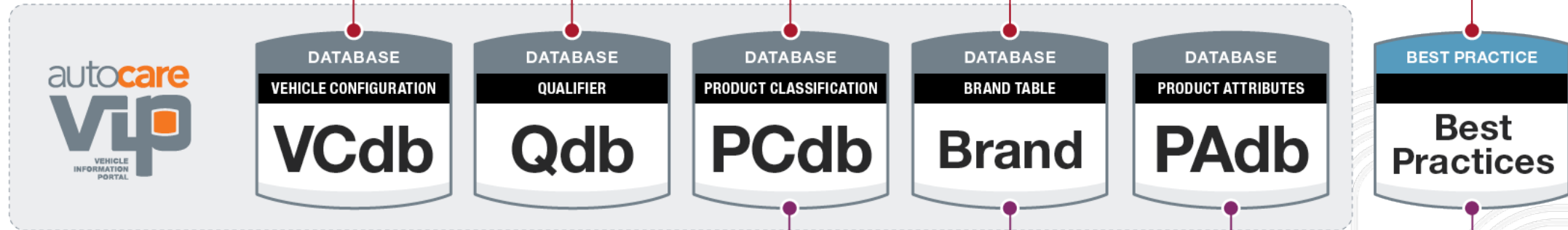
5/9/2022

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**ACES COMPONENTS/
CONTENT OF AN APPLICATION**

- Vehicle Application
- Part Number
- Product Description
- Quantity
- Qualifier/ Note



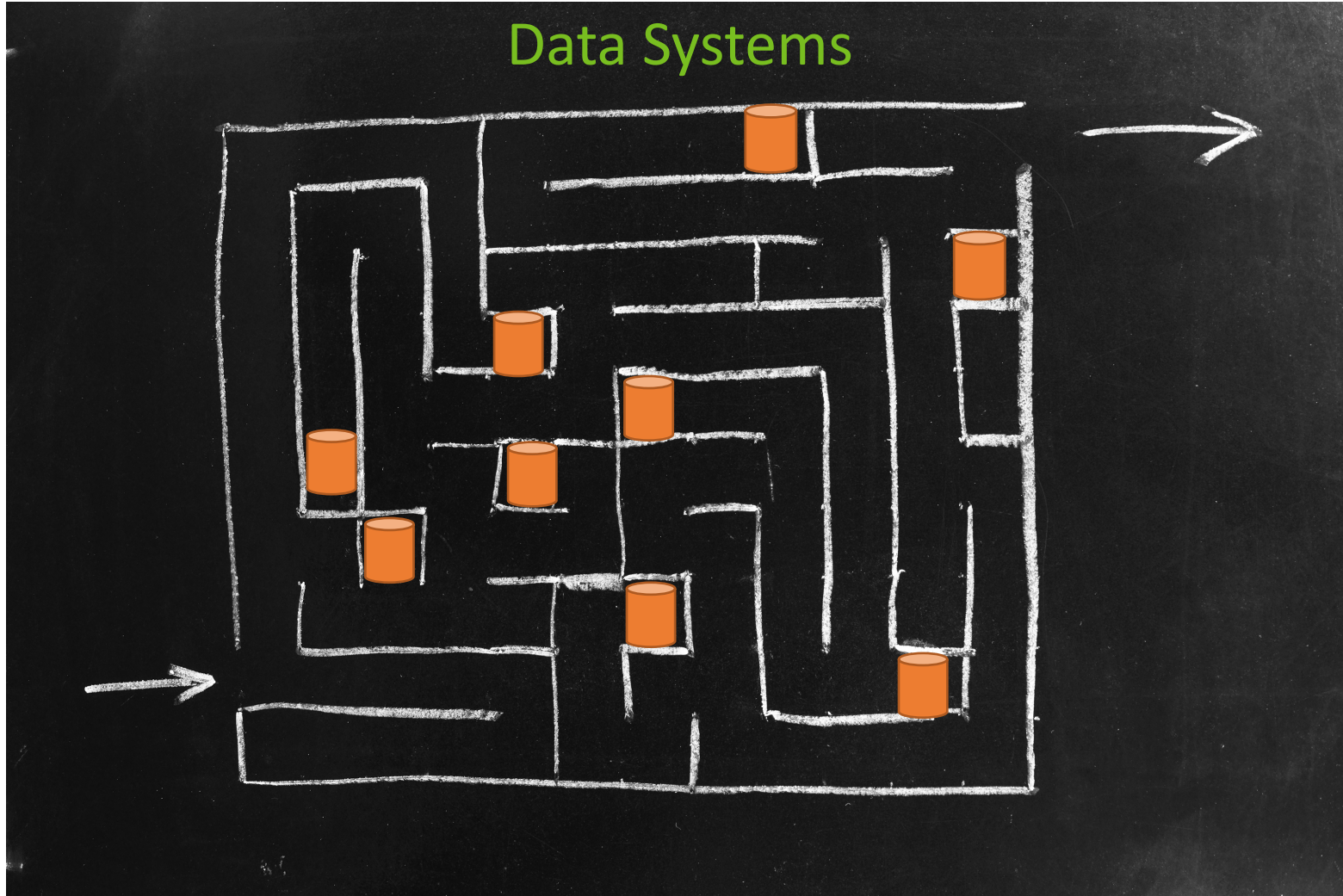
**PIES COMPONENTS/
CONTENT OF A PRODUCT**

- Marketing
- Description
- Pricing
- Packaging
- Performance & Physical Attributes
- Kit Content
- Interchange
- Digital Assets
- Hazmat

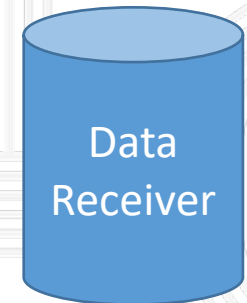
PIES



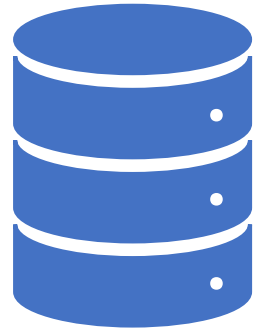
Data Systems



You are here



Data System



One Data Solution



Send out content
to Data Receivers

What version of PIES are you using?



Question

What do you want to get out
this next hour?



Subject Matter Experts (SME)



**WE NEED
YOU**



Brand



New Parent Company

*Parent

* Select at least one Vehicle Type that Parent company sells

Agricultural

SEARCH

* Select at least one of the following uses that apply to your brand information

- Aftermarket Catalog Exchange Standard (ACES) *i*
- Product Information Exchange Standard (PIES) *i*
- Internet Parts Ordering (IPO) *i*
- Selling at an Online Store
- Other

OPTIONAL

Brand

New Parent

Parent

Parent

Cancel Add

- This helps us!
- Add
 - Products
 - Vehicle types
 - Standards
 - website



Marketing Copy



Features and Benefits



Descriptions

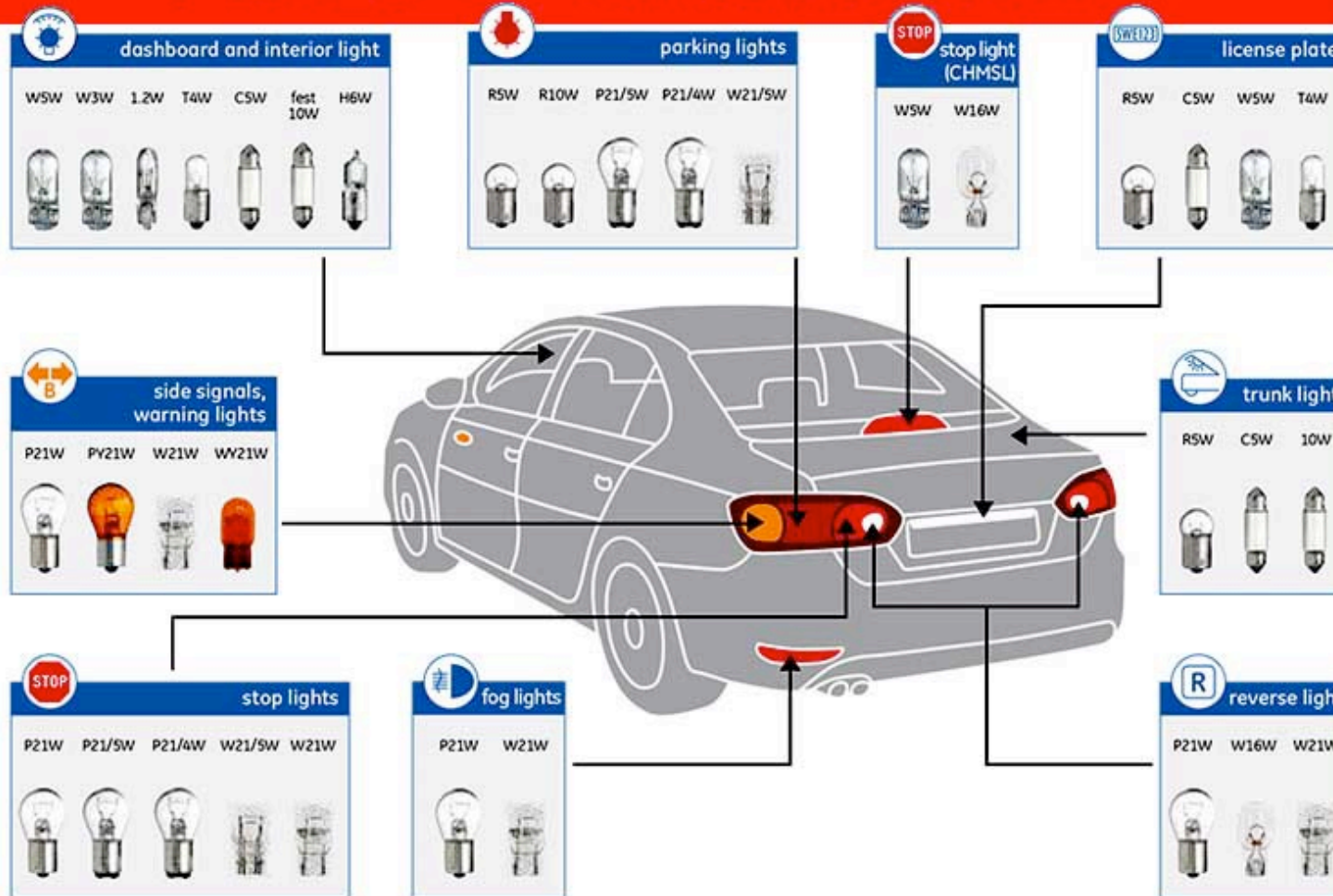
Multi-Purpose Products

The Light Bulb and Vacuum Cleaner



Location Descriptions

TYPES OF CAR LIGHTS



Multi-Purpose Products



- Description

- Nuts, bolts, bulbs, screws, washer and more.
- PartsRelationship table was created to help provide a many-to-one relationship for part terminologies within a PIES file

- Benefits

- Stopping the random selection of one Part Terminology
- Use attributes for only the PIES Usage Part Terminology

PCdb:Usage



Table: Use

Objective: This is the master table for Use in the PCdb

Fields:

Field Name	Format	Purpose
UseID	Integer	Primary key and identifier of each record
UseDescription	Text	Name/Label for the UseID

PURPOSE: This is used as a master reference table for all Uses in the PCdb. This information is NOT communicated through an ACES or PIES xml file.

PCdb:PartsRelationship



Table: PartsRelationship

Objective: This table keeps the many-to-one relationships between the part terminologies that are assigned a Use of (1) ACES only and the part terminologies that are assigned a Use of (2) PIES only.

Fields:

Field Name	Format	Purpose
PartTerminologyID	Integer	Primary key and identifier of each record. These are PartTerminologyID's found in the Parts table that are assigned a Use of (1) ACES only.
RelatedPartTerminologyID	Integer	Identifier of the related part terminology. These are PartTerminologyID's found in the Parts table that are assigned a Use of (2) PIES only.

PURPOSE: This table keeps all the part terminology to related part terminology relationships. This information is NOT communicated through an ACES or PIES xml file.

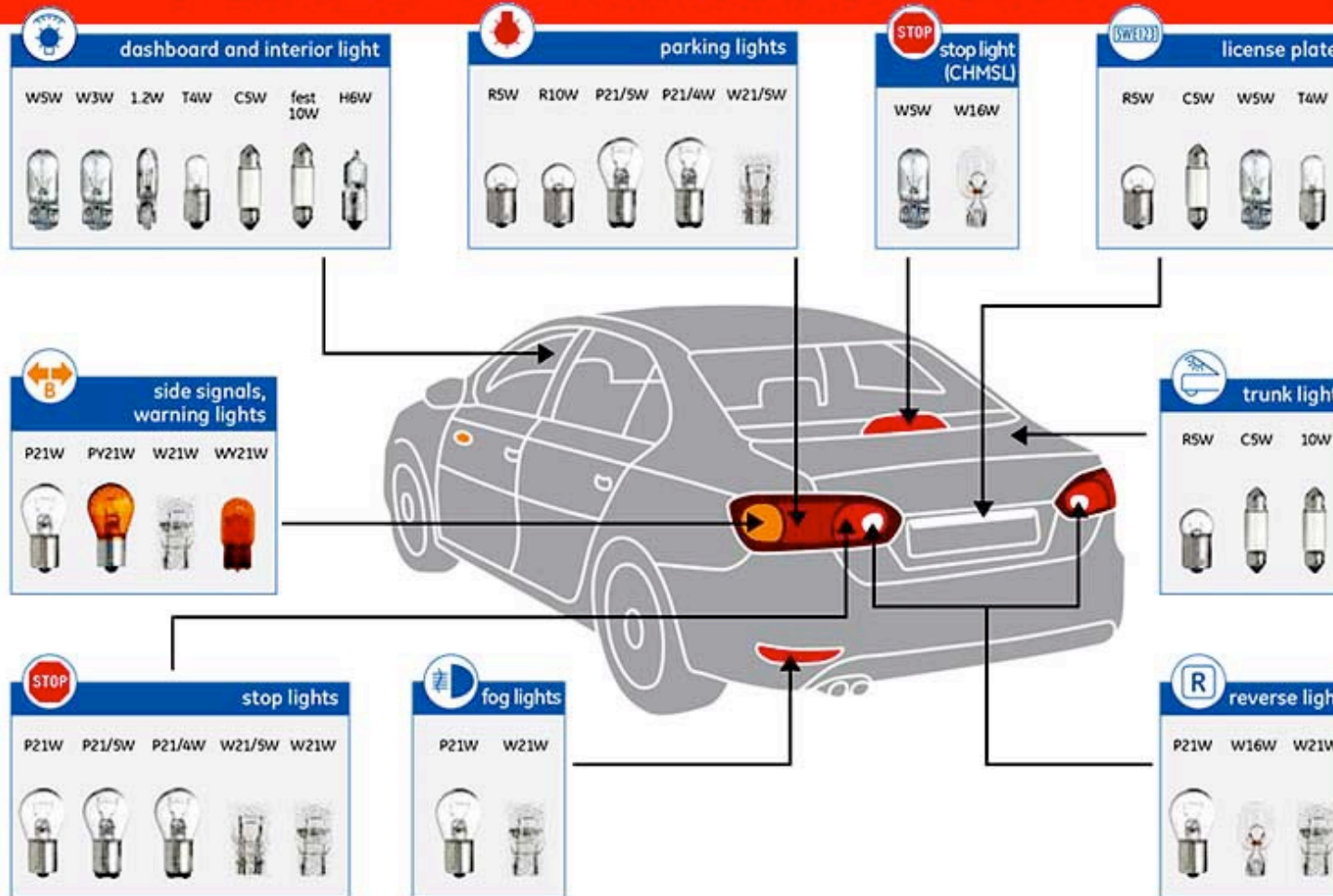
Example



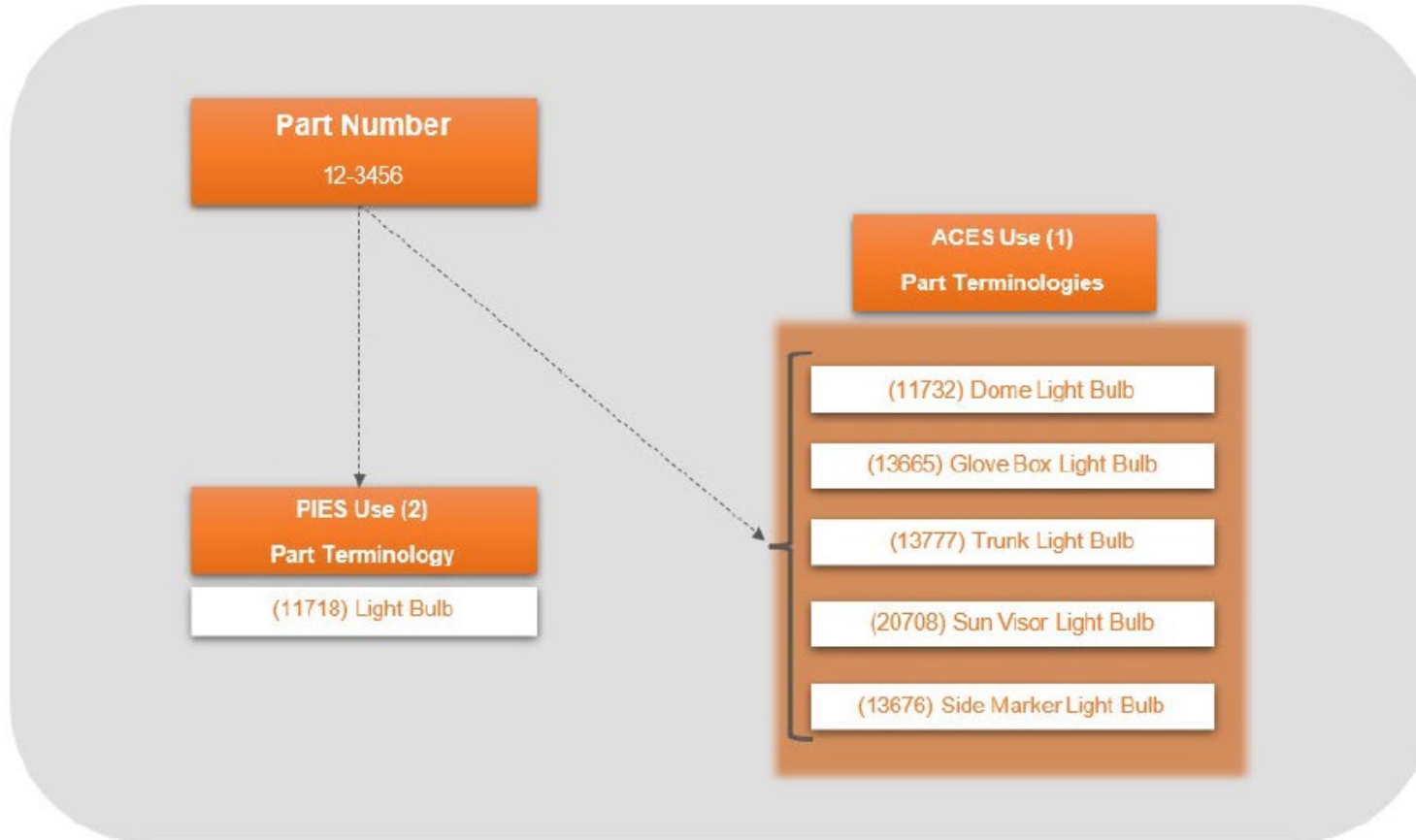
Part Number	PartTerminologyID	PartTerminology	UseID	UseDescription
12-3456	11718	Light Bulb	2	PIES
	11732	Dome Light	1	ACES
	13665	Glove Box Light Bulb	1	ACES
	13777	Trunk Light Bulb	1	ACES
	20708	Sun Visor Light Bulb	1	ACES
	13676	Side Marker Light Bulb	1	ACES

Location Descriptions

TYPES OF CAR LIGHTS



Example



Multi-Purpose Light Bulb Attributes

- Amperage Rating
- Average Rated Life
- Brightness
- Bulb Base Type
- Bulb Color
- Bulb Finish
- Bulb Material
- Bulb Technology
- Bulb Type
- Color Rendering Index (CRI)
- Diameter
- DOT Approved
- Filament Quantity
- Filament Type
- Height
- Length
- Light Color Temperature
- Secondary Amperage Rating
- Secondary Average Rated Life
- Secondary Brightness
- Secondary Filament Type
- Secondary Voltage
- Secondary Wattage
- Voltage
- Wattage
- Width

User Defined Attributes

User Defined Attributes



Package Contents (Kits)

Kit Contents
Contents



[Part Terminology] Part Number (Interchange)

OE interchanges



Description (Description)

Application Description



Prop 65 Warning (HAZMAT) – review best practice guide

User-Defined Attributes



- Email: technology@autocare.org
- Use the Contact Us within autocarevip.com

Contact Us

For questions, suggestions, comments or concerns, please fill out the form below. The Auto Care Association will respond to your request in a timely manner.

Please note that all data change requests ultimately require submission via the VIP interface. However, for complex changes or bulk change requests, you may initiate the process using this form. The Auto Care team will follow up and assist you in entering and submitting the change requests through the VIP interface.

First Name

Last Name

Email

Phone Extension

Company

Subject

Message

Attachments

Copy me on this email



KITS



Kitting/Packaging



- Kit Segment of PIES
 - Provides Standardization and Structure to Convey a “Bill of Material”
 - Clean Detailed Information
 - Speeds Up Processing Times
- Virtual Kits
 - Reduce inventory
- Validate Kit Content
- Data Governance

Kit Example



Flex Engine Hose Kit



```
<Items>
<Item MaintenanceType="A">
...
<Kits>
<Kit MaintenanceType="A">
  <ComponentPartNumber IDQualifier="VC">HOS001</ComponentPartNumber>
  <ComponentBrand>BFJK</ComponentBrand>
  <Description DescriptionCode="DES" LanguageCode="EN">48 in Length .16 in Dia
  <QuantityInKit UOM="EA">1</QuantityInKit>
  <SequenceCode>1</SequenceCode>
</Kit>
<Kit MaintenanceType="A">
  <ComponentPartNumber IDQualifier="VC">HOS002</ComponentPartNumber>
  <ComponentBrand>BFJK</ComponentBrand>
  <Description DescriptionCode="DES" LanguageCode="EN"> 24 in Length .375 in Diameter Radiator Hose </Description>
  <QuantityInKit UOM="EA">1</QuantityInKit>
  <SequenceCode>2</SequenceCode>
</Kit></Kits> ...
</Item>
</items>
```

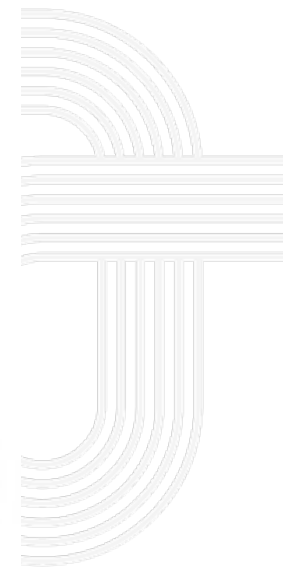
Hose / Line Inside Diameter:	.16, .375, .625, .75, 1.5
Hose / Line Lengths (in):	24, 48, 48, 48, 25
Hose / Line Quantity:	5



Kit Example



Package Contents



Final thoughts on Kits



Interchanges



Interchanges



One to
One

One to
Many

Many to
Many

Partial

Packaging
Differences

One Part to Many Part Interchanges



	Caterpillar OE	Clevite
Cylinder Sleeve Assembly	2506556	226-1967
Cylinder Sleeve	1105800	224-4493X
Piston	8N3182	224-3369X
Ring Set	9S3068	S40963
Piston Pin	7N9804	223-1829
Lock Ring	9H4015	223-5503
Sleeve O-Ring Kit	5P8768	223-7188

```

<PartInterchange MaintenanceType="A" LanguageCode="EN" TypeCode="A" BrandAAIAID="BVTL">
  <PartNumber InterchangeQuantity = "1" UOM="EA">1105800</PartNumber>
  <PartNumber InterchangeQuantity = "1" UOM="EA">8N3182</PartNumber>
  <PartNumber InterchangeQuantity = "1" UOM="EA">9S3068</PartNumber>
  <PartNumber InterchangeQuantity = "1" UOM="EA">7N9804</PartNumber>
  <PartNumber InterchangeQuantity = "1" UOM="EA">9H4015</PartNumber>
  <PartNumber InterchangeQuantity = "1" UOM="EA">9H4015</PartNumber>
</PartInterchange>
  
```

Partial Interchanges

Standard Interchange



Supplier Part Complete Assembly



OE Part Complete Assembly



Supplier Part Tensioner Pulley SubAssembly



OE Part Complete Assembly

Packaging Differences Interchanges

Standard Interchange



My Challenges



Manufacturers

Talk with your Trading Partners



Trading partners (Sellers)

talk with your Manufactures



Talk with your solution providers



Review your content

Pick one thing that you would like to improve

Summary

- Brand
- Marketing Copy
- Multi-Purpose Part Types
- Attributes
- Kits
- Interchanges





Independence drives us.



Thank You!

Jonathan Larsen

jonathan.larsen@autocare.org

