GEN 4.5 Mechanical OE Parts

Auto Care ACES VCdb Vehicle Key Content Development Kit

VERSION 2.1

Contents

MOTOR INFORMATION SYSTEMS

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1 Overview

Each table in the GEN 4.5 Mechancial OE Parts database is named for the vehicle make information that is contained within that table. These tables contain the component name, application information, and part numbers.

- Each table only contains information for the given vehicle make.
- All information for each Make will be contained within Make specific tables.
- The Part Application information provided covers model years 1984 to current.
- The Mechanical OE Parts database will have separate tables for domestic trucks. These tables will be named with the make name followed by the term “TRUCKS.”
    - CHEVROLET_TRUCKS
    - DODGE_TRUCKS
    - FORD_TRUCKS
    - GMC_TRUCKS
    - PLYMOUTH_TRUCKS

Auto Care has established a delivery specification for the communication of parts information in XML format utilizing a defined data schema. This delivery specification can be found in the ACES documentation package, which can be downloaded at http://www.autocare.org/what-we-do/technology/technologyhelp . The data in this delivery utilizes only the VCdb portion of the ACES standard. The data also deviates from the ACES standard in the following ways:

- The data described in this CDK is delivered in pipe-delimited UTF-8 text file (*.txt); not in XML database format.
- The ACES 3.0 XML lists vehicle attributes as elements to be included in an application when applied. Those elements have an attribute name “id”, which provides the id value for looking up the attribute description within the VCdb Database. VCdb Attributes in the data described in this document will be listed in the table <MakeName>_Application_VCdbAttribute_xRef. The AttributeName field is the name of the VCdb vehicle attribute and is equivalent to the element name in the ACES 3.0 XML schema, and the AttributeID value is the value that is equivalent to the “id” attribute for that element.
- The ACES Delivery Specification indicates that each application should only contain the VCdb Attributes that are required to differentiate between two or more content records. In our experience, we have found that this can lead to potential errors and miscommunication of data because of implied or assumed vehicle coverage. Therefore, this data includes enough vehicle attributes so that each Application resolves to exactly one VCdb Year, Make, Model, SubModel, Region and Engine (YMME) definition.
- We have also added the VCdb VehicleToEngineConfigID value to the records in the <MakeName>_Application table. This value represents a complete YMME description in the VCdb database.

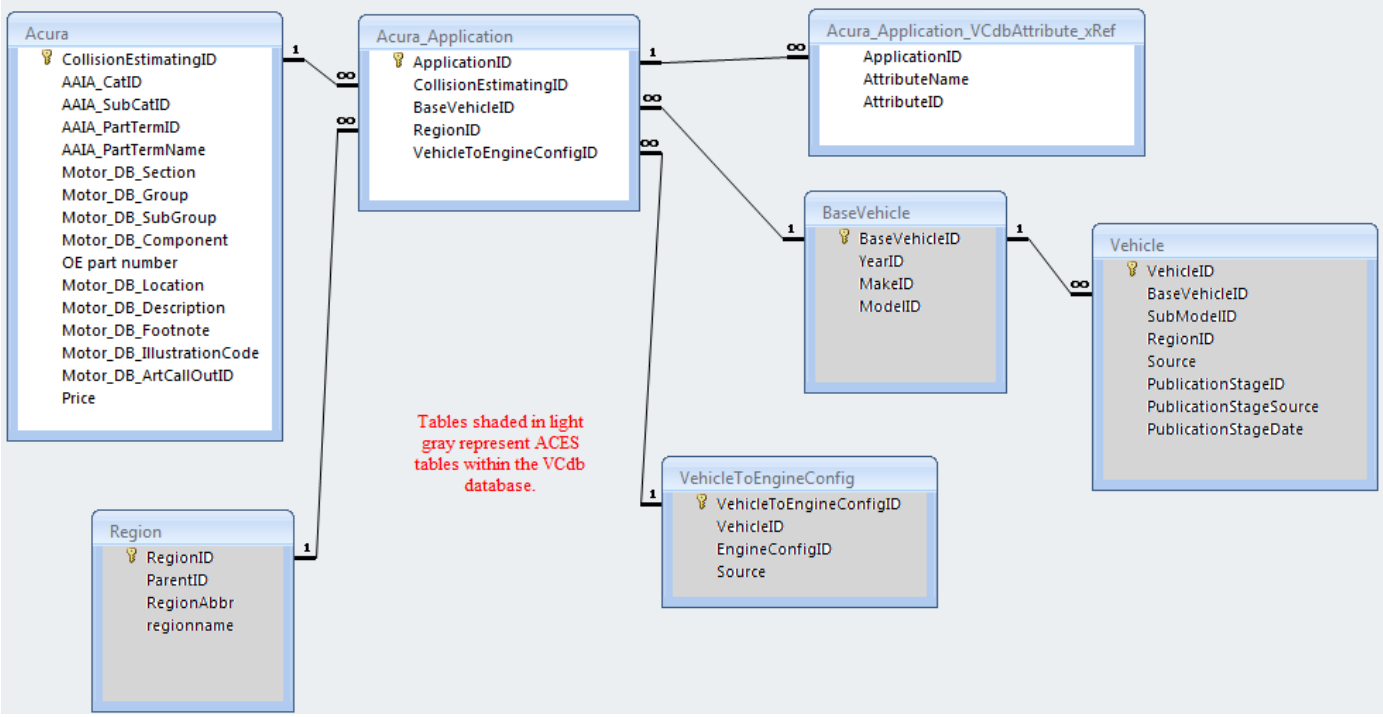
The vehicle data included in this deliverable provides two options for data look-up by vehicle.

- The traditional ACES approach of asking the user to select only the VCdb Attributes required to resolve to a single YMME application can be achieved by using the BaseVehicleID and RegionID

values from the <MakeName>_Application table and any related Vehicle or Engine attributes in the <MakeName>_Application_VCdbAttribute_xRef table.

- The YMME application can be determined by looking at the VehicleToEngineConfigID, which references the top level table in the VCdb database that brings together Vehicle and Engine Attributes. This can be useful when trying to link multiple datasets together using a consistent vehicle key. However, when using this approach, the additional non YMME attributes listed in the <MakeName>_Application_VCdbAttribute_xRef table should still be presented to the end user to select the proper application.

2 Entity Relationship Diagram



Note: *Acura shown as example. The same relationships are true for each Make.*

3 Data Dictionary

3.1 Table: <Make> *

**The parts information is delivered with each make represented with its own table.*

Description:	• This table contains the GEN4.5 OE Part Number application data for model years 1984 and up. • Each operation is defined by the combination of the four component taxonomy path values; Motor_DB_Section, Motor_DB_Group, Motor_DB_Subgroup, Motor_DB_Component. It is the combination of these values that define the operation being represented.

Column Name	Data Type (size)	Allow Null	Constraints	Description
MechanicalEstimatingID	Long Integer	No	PK	Mechanical Estimating primary key. This ID is unique across all of the individual Make files.
AAIA_CatID	Long Integer	Yes		AUTO CARE PCdb field related by MOTOR to the MOTOR component information listed in the record.
AAIA_SubCatID	Long Integer	Yes		AUTO CARE PCdb field related by MOTOR to the MOTOR component information listed in the record.
AAIA_PartTermID	Long Integer	Yes		AUTO CARE PCdb field related by MOTOR to the MOTOR component information listed in the record.
AAIA_PartTermName	Text (120)	Yes		AUTO CARE PCdb field related by MOTOR to the MOTOR component information listed in the record.
Motor_DB_Section	Text (120)	No		Component taxonomy path Section value. This is the broadest of the taxonomy fields.
Motor_DB_Group	Text (120)	No		Component taxonomy path Group value. This grouping further categorizes the individual sections.

Column Name	Data Type (size)	Allow Null	Constraints	Description
Motor_DB_Subgroup	Text (120)	No		Component taxonomy path Sub-Group value. This sub-grouping further categorizes the individual component section and group combinations.
Motor_DB_Component	Text (120)	No		Component taxonomy path component description value. This field is the actual component name. This field is used in conjunction with the other component taxonomy fields to properly identify the component.
OE part number	Text (50)	No		The OE part number applicable to the component at the time of delivery of the library.
Motor_DB_Location	Text (60)	No		Not currently utilized in the Mechanical OE Parts Database.
SectionApplication	Text (120)	Yes		This field is used to group operations within a Motor_DB_Section. For example, the Engine section is often grouped by liters. (Note: This field is not applicable to all variations of this dataset and may not be present)

Column Name	Data Type (size)	Allow Null	Constraints	Description
Motor_DB_Description	Text(600)	No		Additional information pertaining to the proper application of the operation. Data such as location, component variations, and vehicle packages will be represented here. The data in this field is a concatenation of description text used in the print product. Each ";" represents a new line of thought. This data is authored with the intention that each new line of thought is increased one indent more than the one above. For example, a value of "2 DOOR; 2 Door Convertible; Right" can be displayed as… 2 DOOR 2 Door Convertible Right
Motor_DB_Footnote	Text (600)	Yes		This field may contain additional miscellaneous information about the component application.
Motor_DB_IllustrationCode	Text (50)	Yes		When applicable, this field contains the art file name, minus the file extension, of the art file that represents the given component.
Motor_DB_ArtCallOutID	Text (20)	Yes		When applicable, this field contains a call out number that identifies the specific component within the related art file.
Price	Text (20)	Yes		Legacy OE MSRP price field. The data is now contained in a separate part pricing delivery.

3.2 Table: <Make>_Application

Description:	Each Make table will have an accompanying Application table. Each record in this represents a unique vehicle application of the estimating data. This table contains the BaseVehicle and RegionID for every application. The remaining VCdb Attributes can be found in the related <Make>_Application_VCdbAttribute_xRef table. The Application tables also contain the VehicleToEngineConfigID for each application. This ID can be referenced in the VCdb database to look up the Vehicle and Engine related attributes for the application.

Column Name	Data Type (size)	Allow Null	Constraints	Description
ApplicationID	Long Integer	No	PK	Application primary key. This ID is unique across all of the individual Make files.
MechanicalEstimatingID	Integer	No		References unique identifier in Make tables.
BaseVehicleID	Integer	No		References unique identifier for the VCdb BaseVehicle table.
RegionID	Integer	No		References unique identifier for the VCdb Region table.
VehicleToEngineConfigID	Integer	No		References unique identifier for the VCdb VehicleToEngineConfig table.

3.3 Table: <Make>_Application_VCdbAttribute_xRef

Description:	The <Make>_Application_VCdbAttribute_xRef lists the VCdb Attributes for each Application defined in the Application table. This table lists only those VCdb attributes required to differentiate between vehicle applications.

Column Name	Data Type (size)	Allow Null	Constraints	Description
ApplicationID	Long Integer	No	PK	Foreign key that links directly to the Application table
AttributeName	Text(100)	No		The AttributeName field is the name of the VCdb vehicle attribute and is equivalent to the element name in the ACES 3.0 XML schema.
AttributeID	Integer	No		AttributeID value is the value that is equivalent to the “id” attribute for that element.

The ACES 3.0 XML lists vehicle attributes as elements to be included in an application when applied. Those elements have an attribute names “id” which provides the id value for looking up the attribute description within the VCdb Database. VCdb Attributes in the data described in this document will be listed in the table [Make]_Application_VCdbAtttribute_xRef. The AttributeName field is the name of the VCdb vehicle attribute and is equivalent to the element name in the ACES 3.0 XML schema and the AttributeID value is the value that is equivalent to the “id” attribute for that element.