



Standards for Technology in Automotive Retail

**Implementation Guidelines
Change Repair Order DRAFT
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Change Repair Order

Change Repair Order Guidelines

Overview

This document is a guideline on how to use the Change Repair Order Business Object Document (BOD). Change Repair Order has been defined in the context of STAR for the Automotive Retail Industry. The scope of this BOD is to define the Change Repair Order process for individual consumers who service their automobiles through their OEM's authorized Dealers. The focus is on Dealer and OEM interactions, not third party organizations. NOTE: Although this is the traditional use of the Change Repair Order, this BOD could be used to send Change Repair Order information between any two business parties.

Implementation Guidelines provide detailed information regarding the structure and meaning of the Change Repair Order BOD and corresponds directly to the Change Repair Order schema. In addition to structure and meaning, the Implementation Guidelines identify various business rules for specific fields/components that due to their nature, i.e. field interdependence, are not possible to express using schema. Please note that although these business rules are not included in the schema, they **MUST** be followed to be STAR Compliant. Therefore, the Change Repair Order Implementation Guidelines must be used in concert with the Change Repair Order schema during development and should **NOT** be considered a supplement or substitution to the schema. For more information regarding STAR XML Data Compliance, please review the STAR Data Compliance Guidelines document located on the STAR Web site.

For a copy of the corresponding Change Repair Order schema, please download the appropriate STAR schema repository from the XML portion of the STAR website (www.starstandard.org). Prior to downloading the schema, users are encouraged to download the STAR XML Reference/Implementation document also located on the XML portion of the STAR website. This document provides an overview of the STAR BOD development methodology, how to download and read STAR schema, and various frequently asked questions related to the implementation of STAR BODs.

STAR has followed the Open Application Group's Business Object Document methodology to develop the Change Repair Order BOD. Where possible, STAR has mapped to existing OAGI fields and components. Note however that the STAR Change Repair Order BOD is unique to the Retail Automotive industry and is not an extension of any existing OAGIS BODs.

For more information on the Open Applications Group's BODs and related documentation please refer to the Open Applications Group's Web site at (www.openapplications.org).

Schema Field Usage

STAR uses the same Noun in the schema for all the Noun/Verb combinations of the Change Repair Order except the Get verb. Please refer to each Noun/Verb combination within this document to understand the requirements for each specific BOD. Although the Noun will always have every field defined for the Noun in the schema, each Noun/Verb combination may not use all of the fields. If a field is not used by a BOD, it will be noted in the business rules.

Change Repair Order

Business Scenario

The Repair Order Binary Collaboration starts with the sending of Vehicle Service information from the Dealer to the OEM. This process occurs on demand as is needed. Note: This scenario is an example of how the Financial Statement BOD can be used. Implementations may vary.

Schema Document Properties

Declared Namespaces

A schema can contain more than one namespace. According to Whatis.com, "In general, a namespace uniquely identifies a set of names so that there is no ambiguity when objects having different origins but the same names are mixed together." An example would be two namespaces that both defined an element called ID, without a namespace it would be impossible to determine which definition was being used.

Prefix	Namespace
Default namespace	http://www.starstandards.org/STAR
xml	http://www.w3.org/XML/1998/namespace
xsd	http://www.w3.org/2001/XMLSchema

Components and Data Types

Global definitions include components, code lists, and data types. Components are used to build the data structures that make up a Noun and it's requirements. Data types specify the type of data that a component's fields may contain. Not all definitions are included in this documentation. Please see either the STAR Code List guideline or Data Type Guidelines for further information.

Address

Name	Address
Abstract	no

Attributes

Field / Component	Description	R/O	Business Rule
qualifier		R	

Data Elements and Components

Field / Component	Description	R/O	Business Rule
AddressLine	Indicates the multiple lines of an address. The first line is typically the street name and number.	R	
City	Is the City of the Address.	R	
County	County in which the Address is in.	O	
StateOrProvince	Is the State or Province of a given Address.	R	
Country	Country in which the Address is in.	R	
PostalCode	Postal Code of the Address.	R	

XML Instance Representation

```
<...  
  qualifier="AddressQualifier [0..1]">
```

Change Repair Order

```
<AddressLine> AddressLine </AddressLine> [1..*]  
<City> City </City> [1]  
<County> County </County> [0..1]  
<StateOrProvince> StateOrProvince </StateOrProvince> [1]  
<Country> Country </Country> [1]  
<PostalCode> PostalCode </PostalCode> [1]  
</...>
```

AddressBase

Name	AddressBase
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
AddressLine	Indicates the multiple lines of an address. The first line is typically the street name and number.	R	
City	Is the City of the Address.	R	
County	County in which the Address is in.	O	
StateOrProvince	Is the State or Province of a given Address.	R	
Country	Country in which the Address is in.	R	
PostalCode	Postal Code of the Address.	R	

XML Instance Representation

```
<...>  
<AddressLine> AddressLine </AddressLine> [1..*]  
<City> City </City> [1]  
<County> County </County> [0..1]  
<StateOrProvince> StateOrProvince </StateOrProvince> [1]  
<Country> Country </Country> [1]  
<PostalCode> PostalCode </PostalCode> [1]  
</...>
```


Change Repair Order

```
</...>
```

AlternatePartyId

Name	AlternatePartyId
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
Id	Alternate Party Identification	R	

XML Instance Representation

```
<...>  
  <Id> Id </Id> [1]  
</...>
```

Amount

Based on OAGI Amount. Simple content with the currency as an attribute

Name	Amount
Abstract	no

Attributes

Field / Component	Description	R/O	Business Rule
currency		R	

XML Instance Representation

```
<...  
currency="Currency [1]">  
  xsd:decimal
```

Change Repair Order

</...>

ApplicationArea

These field(s) use this type: ApplicationArea.

Name	ApplicationArea
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
Sender	Identifies characteristics and control identifiers that relate to the application that created the Business Object Document. The sender area can indicate the logical location of the application and/or database server, the application, and the task that was processing to create the BOD.	R	
CreationDateTime	is the date time stamp that the given instance of the Business Object Document was created. This date must not be modified during the life of the Business Object Document.	R	DateTime fields must be formatted as XML Schema Datetimes in UTC/GMT format without offsets. Example: 2003-11-05T13:15:30Z
Signature	If the BOD is to be signed the signature element is included, otherwise it is not. Signature supports any digital signature that maybe used by an implementation of OAGIS. The qualifyingAgency identifies the agency that provided the format for the signature. This element supports any digital signature specification that is available today and in the future. This is accomplished by not actually defining the content but by allowing the implementation to specify the digital signature to be used via an external XML Schema namespace declaration. The Signature element is defined to have any content from any other namespace. This allows the user to carry a digital signature in the xml instance of a BOD. The choice of which digital signature to use is left up to the user and their integration needs.	O	Optional. "qualifyingAgency" attribute.

Change Repair Order

Field / Component	Description	R/O	Business Rule
BODId	The BODId provides a place to carry a Globally Unique Identifier (GUID) that will make each Business Object Document instance uniquely identifiable. This is a critical success factor to enable software developers to use the Globally Unique Identifier (GUID) to build the following services or capabilities: 1. Legally binding transactions, 2. Transaction logging, 3. Exception handling, 4. Re-sending, 5. Reporting, 6. Confirmations, 7. Security.	O	
Destination	Information related to the receiver of the BOD	R	

XML Instance Representation

```
<...>
  <Sender> Sender </Sender> [1]
  <CreationDateTime> DateTime </CreationDateTime> [1]
  <Signature> Signature </Signature> [0..1]
  <BODId> Code </BODId> [0..1]
  <Destination> Destination </Destination> [1]
</...>
```

AuthorizationPayMaximum

These field(s) use this type: **AuthorizationPayMaximum**.

Maximum Price covered by Authorization

Name	AuthorizationPayMaximum
Abstract	no

XML Instance Representation

```
<...
currency="Currency [1]">
  Amount
</...>
```

AuthorizationPayPercent

Change Repair Order

These field(s) use this type: **AuthorizationPayPercent**.

Payment Percentage covered by Authorization

Name	AuthorizationPayPercent
Abstract	no

XML Instance Representation

```
<...>
  Percent
</...>
```

BatteryProration

These field(s) use this type: **BatteryProration**.

Denotes life of the new battery in months

Name	BatteryProration
Abstract	no

XML Instance Representation

```
<...>
  Count
</...>
```

BatteryVoltage

These field(s) use this type: **BatteryVoltage**.

Reading from a battery check service

Name	BatteryVoltage
Abstract	no

Change Repair Order

XML Instance Representation

```
<...>
  Measurement
</...>
```

BrandedInfo

These field(s) use this type: **BrandedInfo**.

Name	BrandedInfo
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
BrandedTitleInd	This tag indicates if a vehicle's title has been branded. (i.e., vehicle totaled and state registration title branded as such)	O	Values: 1 - Yes, 0 - No
BrandedTitleDate	Branding Date	O	In YYYY-MM-DD format.
BrandingStateCode	Branding State Code	O	
BrandingStateReference	Branding State Reference Number	O	
BrandingSource	Branding source Ã#Â¢Â#Â# (i.e., source who says that the vehicle is branded)	O	

XML Instance Representation

```
<...>
  <BrandedTitleInd> BrandedTitleInd </BrandedTitleInd> [0..1]
  <BrandedTitleDate> BrandedTitleDate </BrandedTitleDate> [0..1]
  <BrandingStateCode> BrandingStateCode </BrandingStateCode> [0..1]
  <BrandingStateReference> BrandingStateReference </BrandingStateReference> [0..1]
  <BrandingSource> BrandingSource </BrandingSource> [0..1]
</...>
```

Change Repair Order

BrandingStateCode

These field(s) use this type: **BrandingStateCode**.

Branding State Code

Name	BrandingStateCode
Abstract	no

XML Instance Representation

```
<...>  
  StateOrProvince  
</...>
```

BusinessObjectDocument

Name	BusinessObjectDocument
Abstract	no

Attributes

Field / Component	Description	R/O	Business Rule
revision	This should contain the STAR repository version in the following recommended format. 4.2.1_M20080416. Where the first part indicates the version of the STAR repository and anything after the _ indicates the Milestone build that is being used. If referring to an official published version then only the STAR Repository version is required.	O	
release	Indicates the OAGIS release that this BOD belongs.	O	
environment	Indicates whether this BOD is being sent in a "Test" or a "Production" mode. If the BOD is being sent in a test mode, it's information should not affect the business operation. However, if the BOD is sent in "Production" mode it is assumed that all test has been complete and the contents of the BOD are to affect the operation of the receiving business application(s).	O	

Change Repair Order

Field / Component	Description	R/O	Business Rule
lang	Indicates the language that the contents of the BOD is in unless otherwise stated.	O	
bodVersion	Deprecated as of STAR 4.2.2. It is recommended to use the revision attribute to identify the repository and the noun. May be removed in a new major version of the STAR repository. Indicates the version number of the BOD.	O	

Data Elements and Components

Field / Component	Description	R/O	Business Rule
ApplicationArea	Provides the information that an application may need to know in order to communicate in an integration of two or more business applications. The ApplicationArea is used at the applications layer of communication. While the integration frameworks web services and middleware provide the communication layer that OAGIS operates on top of. Provides the information that an application may need to know in order to communicate in an integration of two or more business applications. The ApplicationArea is used at the applications layer of communication. While the integration frameworks web services and middleware provide the communication layer that OAGIS operates on top of.	R	

XML Instance Representation

```
<...  
revision="Text [0..1]"  
release="8.1-Lite [0..1]"  
environment="Text [0..1]"  
lang="Language [0..1]"  
bodVersion="Text [0..1]">  
  <ApplicationArea> ... </ApplicationArea> [1]  
</...>
```

CampaignBulletinId

These field(s) use this type: CampaignBulletinId.

Change Repair Order

Identification of the service bulletin associated with a particular campaign

Name	CampaignBulletinId
Abstract	no

XML Instance Representation

```
<...>  
  Id  
</...>
```

CampaignDescription

These field(s) use this type: CampaignDescription.

Service Campaign Description

Name	CampaignDescription
Abstract	no

XML Instance Representation

```
<...  
  language="Language [0..1]">  
    Description  
</...>
```

CarrierId

These field(s) use this type: CarrierId.

Carrier Code

Name	CarrierId
Abstract	no

XML Instance Representation

Change Repair Order

```
<...>  
  Id  
</...>
```

CASE

These field(s) use this type: CASE,CASE.

Name	CASE
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
CaseType	Type of Customer Arbitration Intervention or legal action	R	
CaseNumber	Case number	O	
CaseOpenDate	Case open date	O	In YYYY-MM-DD format
CaseReasonDescription	Case Reason Description	O	
CaseReasonNarrative	Case Reason Narrative	O	Examples: After Market, OEM, PrePaid
CaseOwner	Case Owner	O	

XML Instance Representation

```
<...>  
  <CaseType> CaseType </CaseType> [1]  
  <CaseNumber> CaseNumber </CaseNumber> [0..1]  
  <CaseOpenDate> CaseOpenDate </CaseOpenDate> [0..1]  
  <CaseReasonDescription> CaseReasonDescription </CaseReasonDescription> [0..1]  
  <CaseReasonNarrative> CaseReasonNarrative </CaseReasonNarrative> [0..1]  
  <CaseOwner> CaseOwner </CaseOwner> [0..1]  
</...>
```

Change Repair Order

CaseReasonDescription

These field(s) use this type: CaseReasonDescription.

Case Reason Description

Name	CaseReasonDescription
Abstract	no

XML Instance Representation

```
<...  
  language="Language [0..1]">  
    Description  
</...>
```

CauseDescription

These field(s) use this type: CauseDescription.

Dealer explanation of vehicle malfunction cause

Name	CauseDescription
Abstract	no

XML Instance Representation

```
<...  
  language="Language [0..1]">  
    Description  
</...>
```

Change

These field(s) use this type: Change.

Name	Change
-------------	--------

Change Repair Order

Abstract no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
Verb		R	

XML Instance Representation

```
<...  
confirm="ConfirmType [0..1]"/>
```

ChangeRepairOrder

These field(s) use this type: ChangeRepairOrder.

Name ChangeRepairOrder

Abstract no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
ApplicationArea	Provides the information that an application may need to know in order to communicate in an integration of two or more business applications. The ApplicationArea is used at the applications layer of communication. While the integration frameworks web services and middleware provide the communication layer that OAGIS operates on top of. Provides the information that an application may need to know in order to communicate in an integration of two or more business applications. The ApplicationArea is used at the applications layer of communication. While the integration frameworks web services and middleware provide the communication layer that OAGIS operates on top of.	R	
DataArea		R	

XML Instance Representation

Change Repair Order

```
<...  
revision="Text [0..1]"  
release="8.1-Lite [0..1]"  
environment="Text [0..1]"  
lang="Language [0..1]"  
bodVersion="Text [0..1]">  
  <ApplicationArea> ... </ApplicationArea> [1]  
  <DataArea> ChangeRepairOrderDataArea </DataArea> [1]  
</...>
```

ChangeRepairOrderDataArea

These field(s) use this type: **DataArea**.

Name	ChangeRepairOrderDataArea
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
Change	The Change verb is used when the sender of the BOD is not the owner of R the data, but is sending a request for the document to be changed. An example of this is Change REQUISITN, where the original document needs to be changed based on a specific business event.		
RepairOrder		R	

XML Instance Representation

```
<...>  
  <Change> ... </Change> [1]  
  <RepairOrder> ... </RepairOrder> [1..*]  
</...>
```

ClaimSubmissionCount

These field(s) use this type: **ClaimSubmissionCount**.

Change Repair Order

Tracks number of times claim has been submitted to manufacturer (i.e., Value will be 0 or null if claim is not ready to be sent

Name	ClaimSubmissionCount
Abstract	no

XML Instance Representation

```
<...>  
  Count  
</...>
```

CodesAndComments

These field(s) use this type: CodesAndComments.

Name	CodesAndComments
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
CauseCode	Manufacturer assigned reason the part failed	O	
CauseDescription	Dealer explanation of vehicle malfunction cause	O	
ComplaintCode	Customer complaint category	O	
ComplaintDescription	Customer explanation of vehicle malfunction	O	
CorrectionDescription	Dealer explanation of vehicle repair	O	
TechnicianNotes	Free form technician comments	O	
MiscellaneousNotes	Free form miscellaneous comments	O	
JobDenialCode	Dealer / Manufacturer defined code identifying the reason the customer denied service on a repair order line	O	

Change Repair Order

Field / Component	Description	R/O	Business Rule
JobDenialDescription	Text description of the reason a customer denied service on a repair orderO line		

XML Instance Representation

```
<...>  
  <CauseCode> CauseCode </CauseCode> [0..1]  
  <CauseDescription> CauseDescription </CauseDescription> [0..1]  
  <ComplaintCode> ComplaintCode </ComplaintCode> [0..1]  
  <ComplaintDescription> ComplaintDescription </ComplaintDescription> [0..1]  
  <CorrectionDescription> CorrectionDescription </CorrectionDescription> [0..1]  
  <TechnicianNotes> TechnicianNotes </TechnicianNotes> [0..1]  
  <MiscellaneousNotes> MiscellaneousNotes </MiscellaneousNotes> [0..1]  
  <JobDenialCode> JobDenialCode </JobDenialCode> [0..1]  
  <JobDenialDescription> JobDenialDescription </JobDenialDescription> [0..1]  
</...>
```

CodesAndCommentsBase

Name	CodesAndCommentsBase
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
CauseCode	Manufacturer assigned reason the part failed	O	
CauseDescription	Dealer explanation of vehicle malfunction cause	O	
ComplaintCode	Customer complaint category	O	
ComplaintDescription	Customer explanation of vehicle malfunction	O	
CorrectionDescription	Dealer explanation of vehicle repair	O	
TechnicianNotes	Free form technician comments	O	

Change Repair Order

Field / Component	Description	R/O	Business Rule
MiscellaneousNotes	Free form miscellaneous comments	O	
JobDenialCode	Dealer / Manufacturer defined code identifying the reason the customer denied service on a repair order line	O	
JobDenialDescription	Text description of the reason a customer denied service on a repair order line	O	

XML Instance Representation

```
<...>
  <CauseCode> CauseCode </CauseCode> [0..1]
  <CauseDescription> CauseDescription </CauseDescription> [0..1]
  <ComplaintCode> ComplaintCode </ComplaintCode> [0..1]
  <ComplaintDescription> ComplaintDescription </ComplaintDescription> [0..1]
  <CorrectionDescription> CorrectionDescription </CorrectionDescription> [0..1]
  <TechnicianNotes> TechnicianNotes </TechnicianNotes> [0..1]
  <MiscellaneousNotes> MiscellaneousNotes </MiscellaneousNotes> [0..1]
  <JobDenialCode> JobDenialCode </JobDenialCode> [0..1]
  <JobDenialDescription> JobDenialDescription </JobDenialDescription> [0..1]
</...>
```

CodesAndCommentsExpanded

These field(s) use this type: CodesAndComments, CodesAndComments, CodesAndComments.

Name	CodesAndCommentsExpanded
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
CauseCode	Manufacturer assigned reason the part failed	O	
CauseDescription	Dealer explanation of vehicle malfunction cause	O	
ComplaintCode	Customer complaint category	O	

Change Repair Order

Field / Component	Description	R/O	Business Rule
ComplaintDescription	Customer explanation of vehicle malfunction	O	
CorrectionDescription	Dealer explanation of vehicle repair	O	
TechnicianNotes	Free form technician comments	O	
MiscellaneousNotes	Free form miscellaneous comments	O	
JobDenialCode	Dealer / Manufacturer defined code identifying the reason the customer denied service on a repair order line	O	
JobDenialDescription	Text description of the reason a customer denied service on a repair order line	O	
ComplaintPriority	Priority from customer's view for specific complaint.	O	
ComplaintCodeType	Type of problem as related to the CustomerComplaintCode.	O	
VehicleConcernQuestionAnswer	Questions and Answers related to Service Appointment	O	
DefectCode	Manufacturer assigned code that defines failed component that caused the claim	O	

XML Instance Representation

```

<...>
  <CauseCode> CauseCode </CauseCode> [0..1]
  <CauseDescription> CauseDescription </CauseDescription> [0..1]
  <ComplaintCode> ComplaintCode </ComplaintCode> [0..1]
  <ComplaintDescription> ComplaintDescription </ComplaintDescription> [0..1]
  <CorrectionDescription> CorrectionDescription </CorrectionDescription> [0..1]
  <TechnicianNotes> TechnicianNotes </TechnicianNotes> [0..1]
  <MiscellaneousNotes> MiscellaneousNotes </MiscellaneousNotes> [0..1]
  <JobDenialCode> JobDenialCode </JobDenialCode> [0..1]
  <JobDenialDescription> JobDenialDescription </JobDenialDescription> [0..1]
  <ComplaintPriority> ComplaintPriority </ComplaintPriority> [0..1]
  <ComplaintCodeType> ComplaintCodeType </ComplaintCodeType> [0..1]
  <VehicleConcernQuestionAnswer> VehicleConcernQuestionAnswer </VehicleConcernQuestionAnswer> [0..*]
  <DefectCode> DefectCode </DefectCode> [0..1]
</...>

```


Change Repair Order

CodeType

Unique code name

Name	CodeType
Abstract	no

Attributes

Field / Component	Description	R/O	Business Rule
listID		O	
listName		O	
listAgencyID		O	
listAgencyName		O	
listVersionID		O	
listURI		O	

XML Instance Representation

```
<...  
listID="xsd:token [0..1]"  
listName="xsd:string [0..1]"  
listAgencyID="xsd:token [0..1]"  
listAgencyName="xsd:string [0..1]"  
listVersionID="xsd:token [0..1]"  
listURI="xsd:anyURI [0..1]">  
  xsd:string  
</...>
```

ComplaintDescription

These field(s) use this type: **ComplaintDescription**.

Change Repair Order

Customer explanation of vehicle malfunction

Name	ComplaintDescription
Abstract	no

XML Instance Representation

```
<...  
language="Language [0..1]">  
  Description  
</...>
```

ConfirmableVerb

Name	ConfirmableVerb
Abstract	no

Attributes

Field / Component	Description	R/O	Business Rule
confirm		R	

Data Elements and Components

Field / Component	Description	R/O	Business Rule
Verb		R	

XML Instance Representation

```
<...  
confirm="ConfirmType [0..1]"/>
```

ContactBase

Change Repair Order

Name	ContactBase
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
Telephone	Contact telephone numbers	O	Values: Evening Phone, Day Phone, Cell Phone, Pager If North America telephone number, the the number must be a minum of 10 digits.
EMailAddress	Contact Email addresses	O	
Fax	Contact Fax numbers	O	Values: Home, Work If North America telephone number, the the number must be a minum of 10 digits.
PreferredContactMethod	Preferred contact method	O	Values: Day Phone, Evening Phone, Cell Phone, Work Fax, Home Fax, Pager, Work Email, Home Email, US Mail
ContactTime	Preferred contact time (i.e. Best day/time to reach the contact.	O	
PrimaryContactInd	Indicates if contact is primary contact	O	

XML Instance Representation

```
<...>
  <Telephone> IndividualPartyContactTelephoneNumber </Telephone> [0..*]
  <EMailAddress> IndividualPartyContactEMail </EMailAddress> [0..*]
  <Fax> IndividualPartyContactFax </Fax> [0..*]
  <PreferredContactMethod> PreferredContactMethod </PreferredContactMethod> [0..1]
  <ContactTime> ContactTime </ContactTime> [0..1]
  <PrimaryContactInd> PrimaryContactInd </PrimaryContactInd> [0..1]
</...>
```

Change Repair Order

ContractDeductible

These field(s) use this type: ContractDeductible.

Amount of Contract Deductible

Name	ContractDeductible
Abstract	no

XML Instance Representation

```
<...  
  currency="Currency [1]">  
    Amount  
</...>
```

ContractId

These field(s) use this type: ContractId.

Identification of Contract

Name	ContractId
Abstract	no

XML Instance Representation

```
<...>  
  Id  
</...>
```

ContractPlanDescription

These field(s) use this type: ContractPlanDescription.

Description of contract plan. Example: 36 MONTH/36000 MILE"

Name	ContractPlanDescription
-------------	-------------------------

Change Repair Order

Abstract	no
-----------------	----

XML Instance Representation

```
<...  
  language="Language [0..1]">  
    Description  
</...>
```

ContractStartMileage

These field(s) use this type: ContractStartMileage.

Odometer reading when contract becomes effective

Name	ContractStartMileage
Abstract	no

XML Instance Representation

```
<...  
  uom="MileageMeasure [0..1]">  
    Mileage  
</...>
```

ContractTermMileage

These field(s) use this type: ContractTermMileage.

Mileage allowed under terms of contract

Name	ContractTermMileage
Abstract	no

XML Instance Representation

```
<...  
  uom="MileageMeasure [0..1]">
```

Change Repair Order

```
Mileage
</...>
```

CorrectionDescription

These field(s) use this type: CorrectionDescription.

Dealer explanation of vehicle repair

Name	CorrectionDescription
Abstract	no

XML Instance Representation

```
<...
language="Language [0..1]">
  Description
</...>
```

Count

Simple quantity type with no attributes

Name	Count
Abstract	no

XML Instance Representation

```
<...>
  xsd:integer
</...>
```

Coupon

These field(s) use this type: Coupon,Coupon.

Name	Coupon
------	--------

Change Repair Order

Abstract no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
CouponId	Identification of Coupon dealership service application	O	
CouponDescription	Text identification of Coupon	O	
CouponDiscountAmount	Credit Price for coupons	O	
CouponComment	Comments associated with the coupon (e.g., Please rotate tire to front left).	O	

XML Instance Representation

```
<...>
  <CouponId> CouponId </CouponId> [0..1]
  <CouponDescription> CouponDescription </CouponDescription> [0..1]
  <CouponDiscountAmount> CouponDiscountAmount </CouponDiscountAmount> [0..1]
  <CouponComment> CouponComment </CouponComment> [0..1]
</...>
```

CouponDescription

These field(s) use this type: CouponDescription.

Text identification of Coupon

Name CouponDescription

Abstract no

XML Instance Representation

```
<...
language="Language [0..1]">
  Description
</...>
```

Change Repair Order

CouponDiscountAmount

These field(s) use this type: CouponDiscountAmount.

Credit Price for coupons

Name	CouponDiscountAmount
Abstract	no

XML Instance Representation

```
<...  
  currency="Currency [1]">  
    Amount  
</...>
```

CouponId

These field(s) use this type: CouponId.

Identification of Coupon dealership service application

Name	CouponId
Abstract	no

XML Instance Representation

```
<...>  
  Id  
</...>
```

CustomerMaximumAmount

These field(s) use this type: CustomerMaximumAmount.

Maximum Price paid by customer

Name	CustomerMaximumAmount
-------------	-----------------------

Change Repair Order

Abstract	no
-----------------	----

XML Instance Representation

```
<...  
currency="Currency [1]">  
  Amount  
</...>
```

CustomerPercent

These field(s) use this type: CustomerPercent.

Percentage paid by customer

Name	CustomerPercent
Abstract	no

XML Instance Representation

```
<...>  
  Percent  
</...>
```

DailyRate

These field(s) use this type: DailyRate.

Daily rate

Name	DailyRate
Abstract	no

XML Instance Representation

```
<...  
currency="Currency [1]">  
  Amount
```

Change Repair Order

```
</...>
```

Damage

These field(s) use this type: **Damage**.

Name	Damage
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
AreaCode	Physical location of damage on the vehicle	O	
DamageCode	Type of damage that occurred (Ex: scratched, dented, etc)	O	
SeverityCode	Degree of damage expressed in inches	O	

XML Instance Representation

```
<...>
  <AreaCode> AreaCode </AreaCode> [0..1]
  <DamageCode> DamageCode </DamageCode> [0..1]
  <SeverityCode> SeverityCode </SeverityCode> [0..1]
</...>
```

DealerPartyBase

Name	DealerPartyBase
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PartyId	Party Identification Number	O	

Change Repair Order

Field / Component	Description	R/O	Business Rule
DealerName	Dealer name	O	
DistrictCode	Manufacturer Assigned District Code	O	
URI	Dealer URI	O	
ZoneCode	Manufacturer Assigned Zone Code	O	

XML Instance Representation

```
<...>
  <PartyId> PartyId </PartyId> [0..1]
  <DealerName> DealerName </DealerName> [0..1]
  <DistrictCode> DistrictCode </DistrictCode> [0..1]
  <URI> URI </URI> [0..1]
  <ZoneCode> ZoneCode </ZoneCode> [0..1]
</...>
```

DeductibleAmount

These field(s) use this type: **DeductibleAmount**.

The Customer Deductible and/or Co/pay amount Amount. Eg:\$50.00

Name	DeductibleAmount
Abstract	no

XML Instance Representation

```
<...
currency="Currency [1]">
  Amount
</...>
```

DeliveryMileage

These field(s) use this type: **DeliveryMileage**.

Change Repair Order

Odometer reading of vehicle at time of delivery

Name	DeliveryMileage
Abstract	no

XML Instance Representation

```
<...  
  uom="MileageMeasure [0..1]">  
    Mileage  
</...>
```

DepartmentDescription

These field(s) use this type: DepartmentDescription.

Department Description

Name	DepartmentDescription
Abstract	no

XML Instance Representation

```
<...  
  language="Language [0..1]">  
    Description  
</...>
```

Description

Description

Name	Description
Abstract	no

Attributes

Change Repair Order

Field / Component	Description	R/O	Business Rule
language	The ISO language code that the description is written.	O	

XML Instance Representation

```
<...  
language="Language [0..1]">  
  xsd:string  
</...>
```

Destination

These field(s) use this type: **Destination**.

Name	Destination
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
DestinationNameCode	Code for destination of file (i.e.Short Manufacturer or DSP code)	O	Must use a valid code from the ShortMfg/RSP list on http://www.starstandards.org
DestinationURI	Physical address of the destination	O	
DestinationSoftwareCode	Additional information about the destination application	O	
DestinationSoftware	For which software destination file is intended (may not be known).	O	
DealerNumber	Target Dealer Code receiving information	O	
StoreNumber	Dealer code store number (DMS assigned)	O	
AreaNumber	Dealer code area number (DMS vendor assigned)	O	
DealerCountry	Target Dealer country location	O	

Change Repair Order

Field / Component	Description	R/O	Business Rule
PartyId	The Party Id field uniquely identifies the Receiver of the message. This element can be used for parties within the Automotive Community as well as external parties. Party Id is not intended as a replacement for the Dealer Number. Suggested formats for OEMs or other large institutions include: DUNs Number, ShortMfgCode + DUNs, or ShortMfgCode. The suggested format for Dealers is: ShortMfgCode+Dealer Number.	O	
LocationId	The Location Id field uniquely identifies the location of the Receiver of a message. This Id may be aligned with a physical address or data centers. This field provides an additional level of granularity beyond the usage of the Party Id for additional routing and deliver of data.		
ServiceId	The Service Id field identifies the particular service to which a message is being sent, e.g., an inventory service.	O	

XML Instance Representation

```
<...>
  <DestinationNameCode> ShortMfg </DestinationNameCode> [0..1]
  <DestinationURI> URI </DestinationURI> [0..1]
  <DestinationSoftwareCode> Text </DestinationSoftwareCode> [0..1]
  <DestinationSoftware> Text </DestinationSoftware> [0..1]
  <DealerNumber> PartyId </DealerNumber> [0..1]
  <StoreNumber> Text </StoreNumber> [0..1]
  <AreaNumber> Text </AreaNumber> [0..1]
  <DealerCountry> Country </DealerCountry> [0..1]
  <PartyId> PartyId </PartyId> [0..1]
  <LocationId> LocationId </LocationId> [0..1]
  <ServiceId> ServiceId </ServiceId> [0..1]
</...>
```

Diagnostics

These field(s) use this type: **Diagnostics,Diagnostics,Diagnostics.**

Name	Diagnostics
Abstract	no

Change Repair Order

Data Elements and Components

Field / Component	Description	R/O	Business Rule
DiagnosticCodes	One or more Manufacturer Diagnostics Codes taken during the Repair Process for this job	O	
BatteryVoltage	Reading from a battery check service	O	This field is required to be populated when Warranty Coverage for Battery repair or Charging is needed.
EngineLightInd	Check engine light indicator	O	Values: 1 - Yes, 0 - No
PCMFailureCode	Powertrain Control Model failure code	O	
DiagnosticProcessCode	Specifies what diagnostic process was followed by technician	O	(INACTIVE)
DiagnosticResultType	Identifies specific result that was obtained from the diagnostic process	O	(INACTIVE)
DiagnosticResultValue	Identifies the value of the diagnostic process	O	(INACTIVE)
SymptomCode	Manufacturer-assigned code to describe how customer experiences problem	O	Please note that although the Schema shows this as an Optional field, in this BOD usage, it should be Required.
SymptomCodeDescription	Description of symptom code	O	Please note that although the Schema shows this as an Optional field, in this BOD usage, it should be Required
FailureCode	Manufacturer-assigned code to describe the reason that a fault or symptom occurred	O	Please note that although the Schema shows this as an Optional field, in this BOD usage, it should be Required
FailureCodeDescription	Description of trouble failure code	O	Please note that although the Schema shows this as an Optional field, in this BOD usage, it should be Required

Change Repair Order

Field / Component	Description	R/O	Business Rule
BatteryWarrantyCode	Warranty code generated by battery tester to define the failure type of the O battery (i.e., Midtronics)		
ACCompressorSerialNumber	Serial number of the AC Compressor	O	
TireTreadDepth	Depth of vehicle's tire tread	O	Please note that although the Schema shows this as an Optional field, in this BOD usage, it should be Required.

XML Instance Representation

```
<...>
  <DiagnosticCodes> DiagnosticCodes </DiagnosticCodes> [0..*]
  <BatteryVoltage> BatteryVoltage </BatteryVoltage> [0..1]
  <EngineLightInd> EngineLightInd </EngineLightInd> [0..1]
  <PCMFailureCode> PCMFailureCode </PCMFailureCode> [0..1]
  <DiagnosticProcessCode> DiagnosticProcessCode </DiagnosticProcessCode> [0..1]
  <DiagnosticResultType> DiagnosticResultType </DiagnosticResultType> [0..1]
  <DiagnosticResultValue> DiagnosticResultValue </DiagnosticResultValue> [0..1]
  <SymptomCode> SymptomCode </SymptomCode> [0..1]
  <SymptomCodeDescription> SymptomCodeDescription </SymptomCodeDescription> [0..1]
  <FailureCode> FailureCode </FailureCode> [0..1]
  <FailureCodeDescription> FailureCodeDescription </FailureCodeDescription> [0..1]
  <BatteryWarrantyCode> BatteryWarrantyCode </BatteryWarrantyCode> [0..1]
  <ACCompressorSerialNumber> ACCompressorSerialNumber </ACCompressorSerialNumber> [0..1]
  <TireTreadDepth> TireTreadDepth </TireTreadDepth> [0..1]
</...>
```

DocumentId

These field(s) use this type: **DocumentId,DocumentId.**

Is the identifier for the document.

Name	DocumentId
Abstract	no

Change Repair Order

XML Instance Representation

```
<...>
  Id
</...>
```

DoorsQuantity

These field(s) use this type: **DoorsQuantity**.

Number of doors on vehicle

Name	DoorsQuantity
Abstract	no

XML Instance Representation

```
<...>
  Count
</...>
```

EngineDescription

These field(s) use this type: **EngineDescription**.

Text description of engine (e.g. dohc, 32 valves)

Name	EngineDescription
Abstract	no

XML Instance Representation

```
<...
language="Language [0..1]">
  Description
</...>
```

ExpenseHours

Change Repair Order

These field(s) use this type: **ExpenseHours**.

Time allotted for administrative work

Name	ExpenseHours
Abstract	no

XML Instance Representation

```
<...>
  Hours
</...>
```

FailureCodeDescription

These field(s) use this type: **FailureCodeDescription**.

Description of trouble failure code

Name	FailureCodeDescription
Abstract	no

XML Instance Representation

```
<...
language="Language [0..1]">
  Description
</...>
```

FleetVehicleId

These field(s) use this type: **FleetVehicleId**.

Uniquely identifies the vehicle as part of a fleet company

Name	FleetVehicleId
Abstract	no

Change Repair Order

XML Instance Representation

```
<...>  
  Id  
</...>
```

FullServiceContract

These field(s) use this type: **ServiceContract**.

Name	FullServiceContract
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
ContractCompanyName	Service contract company name	O	
ContractId	Identification of Service Contract	O	
ContractPlanCode	Service Contract Plan Code	O	
ContractType	Service contract type and/or area of coverage	O	
ContractPlanDescription	Description of service plan. Example: 36 MONTH/36000 MILE"	O	
Term	Number of months in contract plan	O	
ContractStartDate	Service Contract sale Date	O	
ContractDeductible	Amount of Deductible at time of service Eg:\$50.00	O	
ContractExpirationDate	Date the Service contract expires	O	
ContractStartMileage	Odometer reading when contract becomes effective	O	
ContractTermMileage	Mileage allowed under terms of service contract	O	
ContractOwnerName	Name on service Contract (i.e., full name - First Last)	O	
InsuranceCompanyName	Memo Field for carrier covering extended service contract	O	

Change Repair Order

Field / Component	Description	R/O	Business Rule
TotalContractAmount	Total amount of the service contract.	O	
ContractNote	Free form comments that relate to the contract	O	
ContractEffectiveDate	Start Date of Service Contract	O	In YYYY-MM-DD format
ContractPlanStates	States where the plan is valid	O	May occur multiple times.
ContractTransferInd	Indicates if the contract is transferable	O	Values: 1 - Yes, 0 - No
ContractTransferredInd	Indicates if the contract has been transferred	O	Values: 1 - Yes, 0 - No
ContractTripInterruptInd	Indicates if the contract allows for trip interruption	O	Values: 1 - Yes, 0 - No
LoanerVehicleInd	Service contract loaner vehicle indicator	O	Values: 1 - Yes, 0 - No
RoadsideAssistanceInd	Indicates whether coverage includes roadside assistance	O	Values: 1 - Yes, 0 - No
RoadHazardInd	Indicates whether Roadside hazard is covered in the contract	O	
FirstDayRentalInd	If first day rental for service is covered in contract	O	Values: 1 - Yes, 0 - No
RentalAllowance	Limit for Rental Allowance per day	O	Requires currency attribute
MaximumRentalAmount	Max Rental Allowance per occurrence	O	Requires currency attribute
TowingAllowance	Amount allowed for towing of RENTAL car	O	Requires currency attribute

XML Instance Representation

```

<...>
  <ContractCompanyName> ContractCompanyName </ContractCompanyName> [0..1]
  <ContractId> ContractId </ContractId> [0..1]
  <ContractPlanCode> ContractPlanCode </ContractPlanCode> [0..1]

```

Change Repair Order

```
<ContractType> ContractType </ContractType> [0..1]
<ContractPlanDescription> ContractPlanDescription </ContractPlanDescription> [0..1]
<Term> Term </Term> [0..1]
<ContractStartDate> ContractStartDate </ContractStartDate> [0..1]
<ContractDeductible> ContractDeductible </ContractDeductible> [0..1]
<ContractExpirationDate> ContractExpirationDate </ContractExpirationDate> [0..1]
<ContractStartMileage> ContractStartMileage </ContractStartMileage> [0..1]
<ContractTermMileage> ContractTermMileage </ContractTermMileage> [0..1]
<ContractOwnerName> ContractOwnerName </ContractOwnerName> [0..1]
<InsuranceCompanyName> InsuranceCompanyName </InsuranceCompanyName> [0..1]
<TotalContractAmount> TotalContractAmount </TotalContractAmount> [0..1]
<ContractNote> ContractNote </ContractNote> [0..1]
<ContractEffectiveDate> ContractEffectiveDate </ContractEffectiveDate> [0..1]
<ContractPlanStates> ContractPlanStates </ContractPlanStates> [0..*]
<ContractTransferInd> ContractTransferInd </ContractTransferInd> [0..1]
<ContractTransferredInd> ContractTransferredInd </ContractTransferredInd> [0..1]
<ContractTripInterruptInd> ContractTripInterruptInd </ContractTripInterruptInd> [0..1]
<LoanerVehicleInd> LoanerVehicleInd </LoanerVehicleInd> [0..1]
<RoadsideAssistanceInd> RoadsideAssistanceInd </RoadsideAssistanceInd> [0..1]
<RoadHazardInd> RoadHazardInd </RoadHazardInd> [0..1]
<FirstDayRentalInd> FirstDayRentalInd </FirstDayRentalInd> [0..1]
<RentalAllowance> RentalAllowance </RentalAllowance> [0..1]
<MaximumRentalAmount> MaximumRentalAmount </MaximumRentalAmount> [0..1]
<TowingAllowance> TowingAllowance </TowingAllowance> [0..1]
</...>
```

Goodwill

These field(s) use this type: Goodwill.

Represents the good will re-embursement percentages allowed.

Name	Goodwill
Abstract	no

Data Elements and Components

Change Repair Order

Field / Component	Description	R/O	Business Rule
PartsCostPercent	Percentage of part cost to be paid by manufacturer as goodwill for this job.	O	
LaborCostPercent	Percentage of labor cost to be paid by manufacturer as goodwill for this job.	O	
SubletPartsCostPercent	Percentage of sublet parts cost to be paid by manufacturer as goodwill for this job.	O	
SubletLaborCostPercent	Percentage of sublet labor cost to be paid by manufacturer as goodwill for this job.	O	

XML Instance Representation

```
<...>
  <PartsCostPercent> PartsCostPercent </PartsCostPercent> [0..1]
  <LaborCostPercent> LaborCostPercent </LaborCostPercent> [0..1]
  <SubletPartsCostPercent> SubletPartsCostPercent </SubletPartsCostPercent> [0..1]
  <SubletLaborCostPercent> SubletLaborCostPercent </SubletLaborCostPercent> [0..1]
</...>
```

HandlingAmount

These field(s) use this type: **HandlingAmount**.

Handling Amount

Name	HandlingAmount
Abstract	no

XML Instance Representation

```
<...
currency="Currency [1]">
  Amount
</...>
```

Change Repair Order

HeaderBase

Used on all STAR BODs

Name	HeaderBase
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
DocumentDateTime	Is the date and time the document was last created. This is not the date and time that the BOD message instance was created.	O	
SecondaryPassword	Secondary password used to validate access to the dealer information	O	
SecondaryDealerNumber	Identifies secondary dealer number if different than primary "Dealer Number"	O	

XML Instance Representation

```
<...>
  <DocumentDateTime> DocumentDateTime </DocumentDateTime> [0..1]
  <SecondaryPassword> SecondaryPassword </SecondaryPassword> [0..1]
  <SecondaryDealerNumber> SecondaryDealerNumber </SecondaryDealerNumber> [0..1]
</...>
```

Hours

Hours

Name	Hours
Abstract	no

XML Instance Representation

```
<...>
  xsd:decimal
</...>
```

Change Repair Order

Id

These field(s) use this type: **AuthorizationId,Id.**

Party Identification number

Name	Id
Abstract	no

XML Instance Representation

```
<...>  
  xsd:string  
</...>
```

IndividualOwnerParty

Name	IndividualOwnerParty
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PartyId	Party Identification Number	O	
AlternatePartyIds	Individual party alternate party Identification	O	
PersonName	Individual party name	O	
Address	Individual party address	O	
Contact	Individual party contact information	O	
RelationshipCode	Indicates the Business Party's relationship to the primary Party (e.g., mother, father, husband, etc.)	O	

Change Repair Order

XML Instance Representation

```
<...>
  <PartyId> PartyId </PartyId> [0..1]
  <AlternatePartyIds> IndividualPartyAlternatePartyId </AlternatePartyIds> [0..*]
  <PersonName> IndividualPartyPersonName </PersonName> [0..1]
  <Address> IndividualPartyAddress </Address> [0..*]
  <Contact> IndividualPartyContact </Contact> [0..1]
  <RelationshipCode> RelationshipCode </RelationshipCode> [0..1]
</...>
```

IndividualOwnerPartyExtended

Name	IndividualOwnerPartyExtended
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PartyId	Party Identification Number	O	
AlternatePartyIds	Individual party alternate party Identification	O	
PersonName	Individual party name	O	
Address	Individual party address	O	
Contact	Individual party contact information	O	
RelationshipCode	Indicates the Business Party's relationship to the primary Party (e.g., mother, father, husband, etc.)	O	
Demographics	Individual party demographic information	O	
MarketingMailInd	Indicates customers whom have requested no marketing mail	O	
PrimaryDriverInd	Identifies customer as primary driver	O	
DriverAction	Driver action (Ex: Drop-Off, Pick-Up, etc)	O	

Change Repair Order

XML Instance Representation

```
<...>
  <PartyId> PartyId </PartyId> [0..1]
  <AlternatePartyIds> IndividualPartyAlternatePartyId </AlternatePartyIds> [0..*]
  <PersonName> IndividualPartyPersonName </PersonName> [0..1]
  <Address> IndividualPartyAddress </Address> [0..*]
  <Contact> IndividualPartyContact </Contact> [0..1]
  <RelationshipCode> RelationshipCode </RelationshipCode> [0..1]
  <Demographics> MinimalDemographics </Demographics> [0..1]
  <MarketingMailInd> MarketingMailInd </MarketingMailInd> [0..1]
  <PrimaryDriverInd> PrimaryDriverInd </PrimaryDriverInd> [0..1]
  <DriverAction> DriverAction </DriverAction> [0..1]
</...>
```

IndividualOwnerPartyExtendedRO

These field(s) use this type: IndividualOwner,IndividualCo-Owner,PrimaryDriver,SecondaryDriver.

Name	IndividualOwnerPartyExtendedRO
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PartyId	Party Identification Number	O	
AlternatePartyIds	Individual party alternate party Identification	O	
PersonName	Individual party name	O	
Address	Individual party address	O	
Contact	Individual party contact information	O	
RelationshipCode	Indicates the Business Party's relationship to the primary Party (e.g., mother, father, husband, etc.)	O	
Demographics	Individual party demographic information	O	

Change Repair Order

Field / Component	Description	R/O	Business Rule
MarketingMailInd	Indicates customers whom have requested no marketing mail	O	
PrimaryDriverInd	Identifies customer as primary driver	O	
DriverAction	Driver action (Ex: Drop-Off, Pick-Up, etc)	O	
CustomerChangeInd	Indicates whether customer information has changed	O	(INACTIVE)
DataCollectionStatus	Indicates status of data for the record it appears on , either complete or incomplete	O	(INACTIVE)

XML Instance Representation

```
<...>
  <PartyId> PartyId </PartyId> [0..1]
  <AlternatePartyIds> IndividualPartyAlternatePartyId </AlternatePartyIds> [0..*]
  <PersonName> IndividualPartyPersonName </PersonName> [0..1]
  <Address> IndividualPartyAddress </Address> [0..*]
  <Contact> IndividualPartyContact </Contact> [0..1]
  <RelationshipCode> RelationshipCode </RelationshipCode> [0..1]
  <Demographics> MinimalDemographics </Demographics> [0..1]
  <MarketingMailInd> MarketingMailInd </MarketingMailInd> [0..1]
  <PrimaryDriverInd> PrimaryDriverInd </PrimaryDriverInd> [0..1]
  <DriverAction> DriverAction </DriverAction> [0..1]
  <CustomerChangeInd> CustomerChangeInd </CustomerChangeInd> [0..1]
  <DataCollectionStatus> DataCollectionStatus </DataCollectionStatus> [0..1]
</...>
```

IndividualPartyAddress

These field(s) use this type: **Address**.

Name	IndividualPartyAddress
Abstract	no

Data Elements and Components

Change Repair Order

Field / Component	Description	R/O	Business Rule
AddressLine	Indicates the multiple lines of an address. The first line is typically the street name and number.	R	
City	Is the City of the Address.	R	
County	County in which the Address is in.	O	
StateOrProvince	Is the State or Province of a given Address.	R	
Country	Country in which the Address is in.	R	
PostalCode	Postal Code of the Address.	R	
UrbanizationCode	Geographic definition of a metropolitan or suburban area	O	

XML Instance Representation

```
<...  
  qualifier="AddressQualifier [0..1]">  
    <AddressLine> AddressLine </AddressLine> [1..*]  
    <City> City </City> [1]  
    <County> County </County> [0..1]  
    <StateOrProvince> StateOrProvince </StateOrProvince> [1]  
    <Country> Country </Country> [1]  
    <PostalCode> PostalCode </PostalCode> [1]  
    <UrbanizationCode> UrbanizationCode </UrbanizationCode> [0..1]  
  </...>
```

IndividualPartyAlternatePartyId

These field(s) use this type: AlternatePartyIds.

Name	IndividualPartyAlternatePartyId
Abstract	no

Data Elements and Components

Change Repair Order

Field / Component	Description	R/O	Business Rule
Id	Alternate Party Identification	R	
AssigningPartyId	Agency or entity that validates the Party Id	R	
IssuingState	Indicates that State where the license was issued.	O	
ExpirationDate	Expiration date of the alternate party id (e.g., Driver's License expiration date).	O	

XML Instance Representation

```
<...>
  <Id> Id </Id> [1]
  <AssigningPartyId> AssigningPartyId </AssigningPartyId> [1]
  <IssuingState> IssuingState </IssuingState> [0..1]
  <ExpirationDate> ExpirationDate </ExpirationDate> [0..1]
</...>
```

IndividualPartyBase

Name	IndividualPartyBase
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PartyId	Party Identification Number	O	
AlternatePartyIds	Individual party alternate party Identification	O	
PersonName	Individual party name	O	
Address	Individual party address	O	

XML Instance Representation

```
<...>
```

Change Repair Order

```
<PartyId> PartyId </PartyId> [0..1]
<AlternatePartyIds> IndividualPartyAlternatePartyId </AlternatePartyIds> [0..*]
<PersonName> IndividualPartyPersonName </PersonName> [0..1]
<Address> IndividualPartyAddress </Address> [0..*]
</...>
```

IndividualPartyContact

These field(s) use this type: **Contact**.

Name	IndividualPartyContact
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
Telephone	Contact telephone numbers	O	Values: Evening Phone, Day Phone, Cell Phone, Pager If North America telephone number, the the number must be a minum of 10 digits.
EMailAddress	Contact Email addresses	O	
Fax	Contact Fax numbers	O	Values: Home, Work If North America telephone number, the the number must be a minum of 10 digits.
PreferredContactMethod	Preferred contact method	O	Values: Day Phone, Evening Phone, Cell Phone, Work Fax, Home Fax, Pager, Work Email, Home Email, US Mail
ContactTime	Preferred contact time (i.e. Best day/time to reach the contact.	O	
PrimaryContactInd	Indicates if contact is primary contact	O	
PersonName	Contact name	O	

Change Repair Order

XML Instance Representation

```
<...>
  <Telephone> IndividualPartyContactTelephoneNumber </Telephone> [0..*]
  <EMailAddress> IndividualPartyContactEMail </EMailAddress> [0..*]
  <Fax> IndividualPartyContactFax </Fax> [0..*]
  <PreferredContactMethod> PreferredContactMethod </PreferredContactMethod> [0..1]
  <ContactTime> ContactTime </ContactTime> [0..1]
  <PrimaryContactInd> PrimaryContactInd </PrimaryContactInd> [0..1]
  <PersonName> IndividualPartyPersonName </PersonName> [0..1]
</...>
```

IndividualPartyContactEMail

These field(s) use this type: **EMailAddress**.

Individual Party email

Name	IndividualPartyContactEMail
Abstract	no

Attributes

Field / Component	Description	R/O	Business Rule
desc		R	

XML Instance Representation

```
<...
desc="HomeWork [0..1]">
  xsd:string
</...>
```

IndividualPartyContactFax

These field(s) use this type: **Fax**.

Change Repair Order

Individual Party Fax number

Name	IndividualPartyContactFax
Abstract	no

Attributes

Field / Component	Description	R/O	Business Rule
desc		R	

XML Instance Representation

```
<...  
desc="HomeWork [0..1]">  
  xsd:string  
</...>
```

IndividualPartyContactTelephoneNumber

These field(s) use this type: Telephone.

IndividualParty telephone number

Name	IndividualPartyContactTelephoneNumber
Abstract	no

Attributes

Field / Component	Description	R/O	Business Rule
desc		R	
exten		R	

XML Instance Representation

```
<...
```


Change Repair Order

```
desc="ContactTelephoneNumberDescription [0..1]"
exten="Note [0..1]">
  xsd:string
</...>
```

IndividualPartyPersonName

These field(s) use this type: PersonName,PersonName.

Name	IndividualPartyPersonName
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
Salutation	Title or greeting of business party	O	
GivenName	First Name of business party	R	
MiddleName	Middle Initial of business party	O	
FamilyName	Last Name of business party	R	
Suffix	Business Party name suffix designation if individual Ex: Sr, Jr, III, etc.	O	
FormattedName	Full Name of business party. Format for name should be "First Last" with no commas between first and last name	O	
SortName	Index name used as a sort for report purposes	O	

XML Instance Representation

```
<...>
  <Salutation> Salutation </Salutation> [0..1]
  <GivenName> GivenName </GivenName> [1]
  <MiddleName> MiddleName </MiddleName> [0..1]
  <FamilyName> FamilyName </FamilyName> [1]
  <Suffix> Suffix </Suffix> [0..1]
  <FormattedName> FormattedName </FormattedName> [0..1]
```

Change Repair Order

```
<SortName> SortName </SortName> [0..1]
</...>
```

InternalMaximumAmount

These field(s) use this type: **InternalMaximumAmount**.

Maximum Price paid by internal (dealer)

Name	InternalMaximumAmount
Abstract	no

XML Instance Representation

```
<...
currency="Currency [1]">
  Amount
</...>
```

InternalPay

These field(s) use this type: **InternalPay**.

Name	InternalPay
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
DepartmentType	Identifies the internal department who is paying for work	O	
DepartmentDescription	Description of the internal department(s) paying for work	O	
DataCollectionStatus	Indicates status of data for the record it appears on	O	(INACTIVE)
CodesAndComments	Codes and Comments related to Internal Pay	O	
Splits	Internal Pay Splits total	O	

Change Repair Order

Field / Component	Description	R/O	Business Rule
RentLoaner	Rent Loaner related to Internal Pay	O	(INACTIVE)
ServiceComponents	Service Components related to Internal Pay	O	
Transportation	Transportation related to Internal Pay	O	(INACTIVE)
Sublet	Sublet related to Internal Pay	O	
Job	Jobs related to Internal Pay	O	
JobReferback	Job Referback related to Internal Pay	O	(INACTIVE)

XML Instance Representation

```
<...>
  <DepartmentType> DepartmentType </DepartmentType> [0..*]
  <DepartmentDescription> DepartmentDescription </DepartmentDescription> [0..1]
  <DataCollectionStatus> DataCollectionStatus </DataCollectionStatus> [0..1]
  <CodesAndComments> CodesAndCommentsExpanded </CodesAndComments> [0..1]
  <Splits> Splits </Splits> [0..1]
  <RentLoaner> RentLoaner </RentLoaner> [0..*]
  <ServiceComponents> ServiceComponents </ServiceComponents> [0..*]
  <Transportation> Transportation </Transportation> [0..*]
  <Sublet> Sublet </Sublet> [0..*]
  <Job> Job </Job> [0..*]
  <JobReferback> JobReferback </JobReferback> [0..*]
</...>
```

InternalPercent

These field(s) use this type: **InternalPercent**.

Percentage paid by internal (dealer)

Name	InternalPercent
Abstract	no

Change Repair Order

XML Instance Representation

```
<...>
  Percent
</...>
```

ItemId

These field(s) use this type: ItemId,ItemId,ItemId.

Item part number

Name	ItemId
Abstract	no

XML Instance Representation

```
<...>
  Id
</...>
```

ItemIdDescription

These field(s) use this type: ItemIdDescription.

Item part number detail description

Name	ItemIdDescription
Abstract	no

XML Instance Representation

```
<...
language="Language [0..1]">
  Description
</...>
```

ItemQuantity

Change Repair Order

These field(s) use this type: **ItemQuantity,ItemQuantity.**

Quantity of Part number.

Name	ItemQuantity
Abstract	no

XML Instance Representation

```
<...  
uom="UOM [1]">  
  Quantity  
</...>
```

Job

These field(s) use this type: **Job,Job,Job.**

Name	Job
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
JobNumber	DMS assigned job or line identification number	R	
OperationId	Dealer or DMS assigned operation code identifier	R	
OperationName	Dealer or DMS assigned operation description	R	
CodesAndComments	Codes and comments related to job	R	
Diagnostics	Diagnostics from vehicle service associated with job	R	
ServiceParts	Parts used on job	O	
ServiceLabor	Labor used on job	O	
CASE	Customer arbitration information associated with job	O	(INACTIVE)

Change Repair Order

Field / Component	Description	R/O	Business Rule
WarrantyClaim	Warranty Claim information related to job	O	You can use WarrantyClaim on Job or Job on WarrantyClaim but as a Best Practice you shouldn't use both on the same RepairOrder.
HazmatInd	Indicator that Hazmat Was Used and Disposed Of as Part of the Repair	O	Values: 1 - Hazmat was used. 0 - Hazmat was not used.
Language	This code is used to define the language of the data used in this transaction	O	(INACTIVE)
AddOnRepairInd	AddOnRepairInd	O	Values: 0 - not an add on, 1 - Add on Repair
JobLaborRate	The actual labor rate for this job only, typically the posted rate	O	
Price	The actual labor rate for this job only, typically the posted rate	O	See price component for values. Total sales portion based for the values specified for the Job. (i.e. GasOilGrease, Job, etc).
LaborAllowanceHours	Manufacturer approved billable flat rate hours	O	
LaborActualHours	Actual hours required to complete job	R	
JobGoodwillInd	Indicates if Dealer Goodwill has been applied to this job (complete or partial)	O	(INACTIVE)
RepeatRepairInd	Identifies repair as having been performed previously on the vehicle	O	(INACTIVE)
JobStatus	Status of Job (Ex: Complete, Incomplete)	O	(INACTIVE)
JobType	Type of service performed (special policy, warranty pay, etc)	O	
ListNumber	Identifies the weekly statement where the condition will be listed as paid.	O	(INACTIVE)

Change Repair Order

Field / Component	Description	R/O	Business Rule
OriginCode	Indicates source of repair order- Examples: D - Dealer Entered; T Ã#Â¢Â#Â# Teleservice; K - Key Reader	O	(INACTIVE)
RentLoaner	Rent Loaner associated with job	O	(INACTIVE)
ServiceCampaign	Service Campaign (Recall) associated with job	O	(INACTIVE)
Coupon	Coupons associated with job	O	(INACTIVE)
Technician	Technicians associated with job	R	
ServiceComponents	Service Components associated with job	O	
Splits	Splits associated with job	O	
Transportation	Transportation associated with job	O	(INACTIVE)
Tax	Tax associated with job	O	
TowedInInd	Indicates that this job led to the need to have this car towed in	O	
PackageCode	Indicates multiple labor operations within a package (e.g., 30k mileage drive train or emissions package).	O	
TreadActInd	Transportation Recall Enhancement, Accountability, and Documentation O (TREAD) Act (i.e., - Indicates if there has been fire damage)	O	Values: 1 - Yes, 0 - No
Goodwill	Information regarding goodwill provided by the manufacturer	O	

XML Instance Representation

```

<...>
  <JobNumber> JobNumber </JobNumber> [1]
  <OperationId> OperationId </OperationId> [1]
  <OperationName> OperationName </OperationName> [1]
  <CodesAndComments> CodesAndCommentsExpanded </CodesAndComments> [1]
  <Diagnostics> Diagnostics </Diagnostics> [1..*]
  <ServiceParts> ServiceParts </ServiceParts> [0..*]

```

Change Repair Order

```
<ServiceLabor> ServiceLabor </ServiceLabor> [0..*]  
<CASE> CASE </CASE> [0..*]  
<WarrantyClaim> WarrantyClaim </WarrantyClaim> [0..*]  
<HazmatInd> HazmatInd </HazmatInd> [0..1]  
<Language> Language </Language> [0..1]  
<AddOnRepairInd> AddOnRepairInd </AddOnRepairInd> [0..1]  
<JobLaborRate> JobLaborRate </JobLaborRate> [0..1]  
<Price> Price </Price> [0..*]  
<LaborAllowanceHours> LaborAllowanceHours </LaborAllowanceHours> [0..1]  
<LaborActualHours> LaborActualHours </LaborActualHours> [1]  
<JobGoodwillInd> JobGoodwillInd </JobGoodwillInd> [0..1]  
<RepeatRepairInd> RepeatRepairInd </RepeatRepairInd> [0..1]  
<JobStatus> JobStatus </JobStatus> [0..1]  
<JobType> JobType </JobType> [0..1]  
<ListNumber> ListNumber </ListNumber> [0..1]  
<OriginCode> OriginCode </OriginCode> [0..1]  
<RentLoaner> RentLoaner </RentLoaner> [0..*]  
<ServiceCampaign> ServiceCampaign </ServiceCampaign> [0..*]  
<Coupon> Coupon </Coupon> [0..*]  
<Technician> ServiceTechnician </Technician> [1..*]  
<ServiceComponents> ServiceComponents </ServiceComponents> [0..*]  
<Splits> Splits </Splits> [0..*]  
<Transportation> Transportation </Transportation> [0..*]  
<Tax> Tax </Tax> [0..*]  
<TowedInInd> TowedInInd </TowedInInd> [0..1]  
<PackageCode> PackageCode </PackageCode> [0..1]  
<TreadActInd> TreadActInd </TreadActInd> [0..1]  
<Goodwill> Goodwill </Goodwill> [0..1]  
</...>
```

JobDenialDescription

These field(s) use this type: **JobDenialDescription**.

Text description of the reason a customer denied service on a repair order line

Name	JobDenialDescription
------	----------------------

Change Repair Order

Abstract	no
-----------------	----

XML Instance Representation

```
<...  
language="Language [0..1]">  
  Description  
</...>
```

JobLaborRate

These field(s) use this type: **JobLaborRate**.

The actual labor rate for this job only, typically the posted rate

Name	JobLaborRate
Abstract	no

XML Instance Representation

```
<...  
currency="Currency [1]">  
  LaborRate  
</...>
```

JobReferback

These field(s) use this type: **JobReferback,JobReferback,JobReferback**.

Name	JobReferback
Abstract	no

Data Elements and Components

Change Repair Order

Field / Component	Description	R/O	Business Rule
JobReferbackNumber	Refer-back to a job that has already appeared within the same "pay-group" presently being processed (Customer, Claims or Internal Pay)	O	

XML Instance Representation

```
<...>  
  <JobReferbackNumber> JobReferbackNumber </JobReferbackNumber> [0..1]  
</...>
```

LaborActualHours

These field(s) use this type: LaborActualHours,LaborActualHours.

Actual hours required to complete job

Name	LaborActualHours
Abstract	no

XML Instance Representation

```
<...>  
  Hours  
</...>
```

LaborAdditionalHours

These field(s) use this type: LaborAdditionalHours.

Additional labor hours above flat rate allowance

Name	LaborAdditionalHours
Abstract	no

XML Instance Representation

```
<...>
```

Change Repair Order

```
Hours
</...>
```

LaborAllowanceHours

These field(s) use this type: LaborAllowanceHours,LaborAllowanceHours.

Flat rate labor hour allowance for this operation

Name	LaborAllowanceHours
Abstract	no

XML Instance Representation

```
<...>
Hours
</...>
```

LaborCostPercent

These field(s) use this type: LaborCostPercent.

Percentage of labor cost to be paid by manufacturer as goodwill for this job.

Name	LaborCostPercent
Abstract	no

XML Instance Representation

```
<...>
Percent
</...>
```

LaborNarrative

These field(s) use this type: LaborNarrative.

Name	LaborNarrative
-------------	----------------

Change Repair Order

Abstract no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
NarrativeType	Defines the Type of Labor Narrative/Comment like 'RL' - Recall comment, 'ML' etc.,	O	
Narrative	Labor Comment/Narrative can occur multiple times for each Labor depending on LaborNarrative type	O	May occur multiple times

XML Instance Representation

```
<...>
  <NarrativeType> NarrativeType </NarrativeType> [0..1]
  <Narrative> Narrative </Narrative> [0..*]
</...>
```

LaborOperationDescription

These field(s) use this type: LaborOperationDescription.

Description of a particular operation code

Name LaborOperationDescription

Abstract no

XML Instance Representation

```
<...
language="Language [0..1]">
  Description
</...>
```

LaborOperationId

These field(s) use this type: LaborOperationId,LaborOperationId.

Change Repair Order

Currently assigned code for this operation (preferably manufacturer code)

Name	LaborOperationId
Abstract	no

XML Instance Representation

```
<...>  
  Id  
</...>
```

LaborOperationQuantity

These field(s) use this type: **LaborOperationQuantity.**

Number of times this operation was performed for this labor line

Name	LaborOperationQuantity
Abstract	no

XML Instance Representation

```
<...>  
  Count  
</...>
```

LaborRate

These field(s) use this type: **LaborRate,LaborRate,LaborRate.**

Dealer Posted Hourly Retail Labor Rate

Name	LaborRate
Abstract	no

XML Instance Representation

```
<...>
```

Change Repair Order

```
currency="Currency [1]">
  Amount
</...>
```

LocationId

These field(s) use this type: LocationId,LocationId,LocationId.

Code identifying a physical location

Name	LocationId
Abstract	no

XML Instance Representation

```
<...>
  Id
</...>
```

MarkupPercentage

These field(s) use this type: MarkupPercentage.

Dealer submitted part markup percentage

Name	MarkupPercentage
Abstract	no

XML Instance Representation

```
<...>
  Percent
</...>
```

MaximumRentalAmount

These field(s) use this type: MaximumRentalAmount.

Change Repair Order

Max Rental Allowance per occurrence

Name	MaximumRentalAmount
Abstract	no

XML Instance Representation

```
<...  
currency="Currency [1]">  
  Amount  
</...>
```

Measurement

Decimal measurement

Name	Measurement
Abstract	no

XML Instance Representation

```
<...>  
  xsd:decimal  
</...>
```

Mileage

Mileage definition

Name	Mileage
Abstract	no

Attributes

Field / Component	Description	R/O	Business Rule
uom		O	

Change Repair Order

XML Instance Representation

```
<...  
uom="MileageMeasure [0..1]">  
  Count  
</...>
```

MileageIn

These field(s) use this type: **MileageIn.**

Odometer reading of vehicle when repair order was opened

Name	MileageIn
Abstract	no

XML Instance Representation

```
<...  
uom="MileageMeasure [0..1]">  
  Mileage  
</...>
```

MileageOut

These field(s) use this type: **MileageOut.**

Odometer reading of vehicle when repair order was closed

Name	MileageOut
Abstract	no

XML Instance Representation

```
<...  
uom="MileageMeasure [0..1]">  
  Mileage  
</...>
```


Change Repair Order

MinimalDemographics

These field(s) use this type: Demographics.

Name	MinimalDemographics
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
Gender	Gender of party	O	Values: M - Male, F - Female
Language	Business party native language	O	Reference Language Enumerator
BirthDate	Birth date of party	O	In YYYY-MM-DD format

XML Instance Representation

```
<...>
  <Gender> Gender </Gender> [0..1]
  <Language> Language </Language> [0..1]
  <BirthDate> BirthDate </BirthDate> [0..1]
</...>
```

NonTaxableAmount

These field(s) use this type: NonTaxableAmount,NonTaxableAmount.

Total non-taxable price.

Name	NonTaxableAmount
Abstract	no

XML Instance Representation

Change Repair Order

```
<...  
currency="Currency [1]">  
  Amount  
</...>
```

OperationId

These field(s) use this type: **OperationId**.

Dealer or DMS assigned operation code identifier

Name	OperationId
Abstract	no

XML Instance Representation

```
<...>  
  Id  
</...>
```

OperationName

These field(s) use this type: **OperationName**.

Dealer or DMS assigned operation description

Name	OperationName
Abstract	no

XML Instance Representation

```
<...  
language="Language [0..1]">  
  Description  
</...>
```

OptionBase

Change Repair Order

Name	OptionBase
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
OptionType	An option type for a vehicle or other component. Usually references an OEM supplied list of codes.	O	
OptionName	Name of vehicle option	O	
OptionStockNumber	Stock Number of Vehicle Option	O	
Manufacturer	Manufacturer of Vehicle Option	O	

XML Instance Representation

```
<...>  
  <OptionType> OptionType </OptionType> [0..1]  
  <OptionName> OptionName </OptionName> [0..1]  
  <OptionStockNumber> OptionStockNumber </OptionStockNumber> [0..1]  
  <Manufacturer> Manufacturer </Manufacturer> [0..1]  
</...>
```

OptionType

These field(s) use this type: **OptionType**.

Option Type from an OEM or other sources list of codes.

Name	OptionType
Abstract	no

XML Instance Representation

```
<...  
listID="xsd:token [0..1]"  
listName="xsd:string [0..1]"
```

Change Repair Order

```
listAgencyID="xsd:token [0..1]"
listAgencyName="xsd:string [0..1]"
listVersionID="xsd:token [0..1]"
listURI="xsd:anyURI [0..1]">
  CodeType
</...>
```

OrganizationAddress

These field(s) use this type: **Address**.

Name	OrganizationAddress
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
AddressLine	Indicates the multiple lines of an address. The first line is typically the street name and number.	R	
City	Is the City of the Address.	R	
County	County in which the Address is in.	O	
StateOrProvince	Is the State or Province of a given Address.	R	
Country	Country in which the Address is in.	R	
PostalCode	Postal Code of the Address.	R	
UrbanizationCode	Geographic definition of a metropolitan or suburban area	O	

XML Instance Representation

```
<...>
  <AddressLine> AddressLine </AddressLine> [1..*]
  <City> City </City> [1]
  <County> County </County> [0..1]
```

Change Repair Order

```
<StateOrProvince> StateOrProvince </StateOrProvince> [1]
<Country> Country </Country> [1]
<PostalCode> PostalCode </PostalCode> [1]
<UrbanizationCode> UrbanizationCode </UrbanizationCode> [0..1]
</...>
```

OrganizationalOwnerParty

Name	OrganizationalOwnerParty
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PartyId	Party Identification Number	O	
AlternatePartyIds	Alternate organizational party Identification	O	
Name	Company name of organizational party	O	
Address	Organizational Party address	O	
DBAName	Doing Business As name.	O	
Contact	Organizational Party contact information	O	
RelationshipCode	Indicates the Business Party's relationship to the primary Party (e.g., mother, father, husband, etc.)	O	

XML Instance Representation

```
<...>
  <PartyId> PartyId </PartyId> [0..1]
  <AlternatePartyIds> OrganizationalPartyAlternatePartyId </AlternatePartyIds> [0..*]
  <Name> CompanyName </Name> [0..1]
  <Address> OrganizationAddress </Address> [0..1]
  <DBAName> DBAName </DBAName> [0..1]
  <Contact> OrganizationContactExtended </Contact> [0..1]
</...>
```

Change Repair Order

```
<RelationshipCode> RelationshipCode </RelationshipCode> [0..1]
</...>
```

OrganizationalOwnerPartyExtended

Name	OrganizationalOwnerPartyExtended
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PartyId	Party Identification Number	O	
AlternatePartyIds	Alternate organizational party Identification	O	
Name	Company name of organizational party	O	
Address	Organizational Party address	O	
DBAName	Doing Business As name.	O	
Contact	Organizational Party contact information	O	
RelationshipCode	Indicates the Business Party's relationship to the primary Party (e.g., mother, father, husband, etc.)	O	
MarketingMailInd	Indicates customers whom have requested no marketing mail	O	
PrimaryDriverInd	Identifies customer as primary driver	O	
DriverAction	Driver action (Ex: Drop-Off, Pick-Up, etc)	O	

XML Instance Representation

```
<...>
  <PartyId> PartyId </PartyId> [0..1]
  <AlternatePartyIds> OrganizationalPartyAlternatePartyId </AlternatePartyIds> [0..*]
  <Name> CompanyName </Name> [0..1]
  <Address> OrganizationAddress </Address> [0..1]
```

Change Repair Order

```
<DBAName> DBAName </DBAName> [0..1]
<Contact> OrganizationContactExtended </Contact> [0..1]
<RelationshipCode> RelationshipCode </RelationshipCode> [0..1]
<MarketingMailInd> MarketingMailInd </MarketingMailInd> [0..1]
<PrimaryDriverInd> PrimaryDriverInd </PrimaryDriverInd> [0..1]
<DriverAction> DriverAction </DriverAction> [0..1]
</...>
```

OrganizationalOwnerPartyExtendedRO

These field(s) use this type: **OrganizationalOwner,OrganizationalCo-Owner.**

Name	OrganizationalOwnerPartyExtendedRO
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PartyId	Party Identification Number	O	
AlternatePartyIds	Alternate organizational party Identification	O	
Name	Company name of organizational party	O	
Address	Organizational Party address	O	
DBAName	Doing Business As name.	O	
Contact	Organizational Party contact information	O	
RelationshipCode	Indicates the Business Party's relationship to the primary Party (e.g., mother, father, husband, etc.)	O	
MarketingMailInd	Indicates customers whom have requested no marketing mail	O	
PrimaryDriverInd	Identifies customer as primary driver	O	
DriverAction	Driver action (Ex: Drop-Off, Pick-Up, etc)	O	
CustomerChangeInd	Indicates whether customer information has changed	O	(INACTIVE)

Change Repair Order

Field / Component	Description	R/O	Business Rule
DataCollectionStatus	Indicates status of data for the record it appears on , either complete or incomplete	O	(INACTIVE)

XML Instance Representation

```
<...>
  <PartyId> PartyId </PartyId> [0..1]
  <AlternatePartyIds> OrganizationalPartyAlternatePartyId </AlternatePartyIds> [0..*]
  <Name> CompanyName </Name> [0..1]
  <Address> OrganizationAddress </Address> [0..1]
  <DBAName> DBAName </DBAName> [0..1]
  <Contact> OrganizationContactExtended </Contact> [0..1]
  <RelationshipCode> RelationshipCode </RelationshipCode> [0..1]
  <MarketingMailInd> MarketingMailInd </MarketingMailInd> [0..1]
  <PrimaryDriverInd> PrimaryDriverInd </PrimaryDriverInd> [0..1]
  <DriverAction> DriverAction </DriverAction> [0..1]
  <CustomerChangeInd> CustomerChangeInd </CustomerChangeInd> [0..1]
  <DataCollectionStatus> DataCollectionStatus </DataCollectionStatus> [0..1]
</...>
```

OrganizationalPartyAlternatePartyId

These field(s) use this type: AlternatePartyIds,AlternatePartyIds,AlternatePartyIds.

Name	OrganizationalPartyAlternatePartyId
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
Id	Alternate Party Identification	R	
AssigningPartyId	Agency or entity that validates the Party Id	R	
IssuingState	Indicates that State where the license was issued.	O	

Change Repair Order

Field / Component	Description	R/O	Business Rule
ExpirationDate	Expiration date of the alternate party id (e.g., Driver's License expiration date).	O	

XML Instance Representation

```
<...>
  <Id> Id </Id> [1]
  <AssigningPartyId> AssigningOrganizationPartyId </AssigningPartyId> [1]
  <IssuingState> IssuingState </IssuingState> [0..1]
  <ExpirationDate> ExpirationDate </ExpirationDate> [0..1]
</...>
```

OrganizationContact

Name	OrganizationContact
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PersonName	Contact name	O	
Telephone	Contact telephone numbers	O	
EmailAddress	Contact Email address	O	
Fax	Contact Fax number	O	
PreferredContactMethod	Preferred contact method	O	
ContactTime	Preferred contact time (i.e. Best day/time to reach the contact.	O	

XML Instance Representation

```
<...>
  <PersonName> OrganizationContactPersonName </PersonName> [0..1]
  <Telephone> OrganizationPartyTelephone </Telephone> [0..*]
```

Change Repair Order

```
<EmailAddress> OrganizationPartyEmail </EmailAddress> [0..*]  
<Fax> OrganizationPartyFax </Fax> [0..*]  
<PreferredContactMethod> PreferredContactMethodOrganization </PreferredContactMethod> [0..1]  
<ContactTime> ContactTime </ContactTime> [0..1]  
</...>
```

OrganizationContactExtended

These field(s) use this type: **Contact**.

Name	OrganizationContactExtended
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PersonName	Contact name	O	
Telephone	Contact telephone numbers	O	
EmailAddress	Contact Email address	O	
Fax	Contact Fax number	O	
PreferredContactMethod	Preferred contact method	O	
ContactTime	Preferred contact time (i.e. Best day/time to reach the contact.	O	
PreferredLanguage	Organization's preferred language	O	

XML Instance Representation

```
<...>  
  <PersonName> OrganizationContactPersonName </PersonName> [0..1]  
  <Telephone> OrganizationPartyTelephone </Telephone> [0..*]  
  <EmailAddress> OrganizationPartyEmail </EmailAddress> [0..*]  
  <Fax> OrganizationPartyFax </Fax> [0..*]  
  <PreferredContactMethod> PreferredContactMethodOrganization </PreferredContactMethod> [0..1]  
</...>
```

Change Repair Order

```
<ContactTime> ContactTime </ContactTime> [0..1]
<PreferredLanguage> PreferredLanguage </PreferredLanguage> [0..1]
</...>
```

OrganizationContactPersonName

These field(s) use this type: PersonName.

Derived from oa:PersonName

Name	OrganizationContactPersonName
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
GivenName	First Name of business party	R	
FamilyName	Last Name of business party	R	
FormattedName	Full Name of business party. Format for name should be "First Last" with no commas between first and last name	O	

XML Instance Representation

```
<...>
  <GivenName> Name </GivenName> [1]
  <FamilyName> Name </FamilyName> [1]
  <FormattedName> Name </FormattedName> [0..1]
</...>
```

OrganizationPartyBase

Name	OrganizationPartyBase
Abstract	no

Change Repair Order

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PartyId	Party Identification Number	O	
AlternatePartyIds	Alternate organizational party Identification	O	
Name	Company name of organizational party	O	
Address	Organizational Party address	O	
DBAName	Doing Business As name.	O	

XML Instance Representation

```
<...>
  <PartyId> PartyId </PartyId> [0..1]
  <AlternatePartyIds> OrganizationalPartyAlternatePartyId </AlternatePartyIds> [0..*]
  <Name> CompanyName </Name> [0..1]
  <Address> OrganizationAddress </Address> [0..1]
  <DBAName> DBAName </DBAName> [0..1]
</...>
```

OrganizationPartyEmail

These field(s) use this type: **EMailAddress**.

Organization email

Name	OrganizationPartyEmail
Abstract	no

XML Instance Representation

```
<...>
  xsd:string
</...>
```

OrganizationPartyFax

Change Repair Order

These field(s) use this type: **Fax**.

OrganizationFax number

Name	OrganizationPartyFax
Abstract	no

XML Instance Representation

```
<...>  
  xsd:string  
</...>
```

OrganizationPartyTelephone

These field(s) use this type: **Telephone**.

OrganizationParty telephone number

Name	OrganizationPartyTelephone
Abstract	no

Attributes

Field / Component	Description	R/O	Business Rule
desc		R	
exten		R	

XML Instance Representation

```
<...  
desc="ContactTelephoneNumberOrganizationDescription [0..1]"  
exten="Note [0..1]">  
  xsd:string  
</...>
```

Change Repair Order

PartDealerNumer

These field(s) use this type: **PartDealerNumer**.

Identification number for party that installed part

Name	PartDealerNumer
Abstract	no

XML Instance Representation

```
<...>  
  Id  
</...>
```

PartMaximumAmount

These field(s) use this type: **PartMaximumAmount**.

Total Amount of part allowance

Name	PartMaximumAmount
Abstract	no

XML Instance Representation

```
<...  
currency="Currency [1]">  
  Amount  
</...>
```

PartNameCode

These field(s) use this type: **PartNameCode**.

Part identifier which is comprised of a system and component code

Name	PartNameCode
-------------	--------------

Change Repair Order

Abstract	no
-----------------	----

XML Instance Representation

```
<...>  
  Id  
</...>
```

PartNameCodeDescription

These field(s) use this type: PartNameCodeDescription.

Description of Part identifier (PNC) that caused the failure

Name	PartNameCodeDescription
Abstract	no

XML Instance Representation

```
<...  
language="Language [0..1]">  
  Description  
</...>
```

PartsCostPercent

These field(s) use this type: PartsCostPercent.

Percentage of part cost to be paid by manufacturer as goodwill for this job.

Name	PartsCostPercent
Abstract	no

XML Instance Representation

```
<...>  
  Percent  
</...>
```

Change Repair Order

PartyBase

Derived from oa:Party

Name	PartyBase
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PartyId	Party Identification Number	O	

XML Instance Representation

```
<...>  
  <PartyId> PartyId </PartyId> [0..1]  
</...>
```

PartyId

These field(s) use this type: DealerNumber,PartyId,DealerNumber,PartyId,PartyId.

Party Identification Number

Name	PartyId
Abstract	no

XML Instance Representation

```
<...>  
  Id  
</...>
```

Percent

Percent

Change Repair Order

Name	Percent
Abstract	no

XML Instance Representation

```
<...>
  xsd:decimal
</...>
```

PreAdjustmentAmount

These field(s) use this type: **PreAdjustmentAmount.**

Total amount derived before the application of tax. (i.e., Dealership's Part Adjustment Amount)

Name	PreAdjustmentAmount
Abstract	no

XML Instance Representation

```
<...
currency="Currency [1]">
  Amount
</...>
```

Price

These field(s) use this type: **Price,Price,Price,Price,Price,Price,Price,Price,Price.**

Name	Price
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PriceType	Identifies the price type	R	

Change Repair Order

Field / Component	Description	R/O	Business Rule
TaxableAmount	Total Taxable Price	O	
NonTaxableAmount	Total non-taxable price.	O	
TotalAmount	Total price (cost + markup)	O	
UnitPrice	UnitPrice	O	
TotalCost	Value at unit cost times quantity	O	
UnitCost	Cost at inventory value	O	
PriceExplanation	Explanatory Note for Pricing	O	

XML Instance Representation

```
<...>
  <PriceType> PriceType </PriceType> [1]
  <TaxableAmount> TaxableAmount </TaxableAmount> [0..1]
  <NonTaxableAmount> NonTaxableAmount </NonTaxableAmount> [0..1]
  <TotalAmount> TotalAmount </TotalAmount> [0..1]
  <UnitPrice> UnitPrice </UnitPrice> [0..1]
  <TotalCost> TotalCost </TotalCost> [0..1]
  <UnitCost> UnitCost </UnitCost> [0..1]
  <PriceExplanation> PriceExplanation </PriceExplanation> [0..1]
</...>
```

Quantity

A decimal value with uom

Name	Quantity
Abstract	no

Attributes

Change Repair Order

Field / Component	Description	R/O	Business Rule
uom		R	

XML Instance Representation

```
<...  
uom="UOM [1]">  
  xsd:decimal  
</...>
```

RentalAllowance

These field(s) use this type: **RentalAllowance**.

Limit for Rental Allowance per day

Name	RentalAllowance
Abstract	no

XML Instance Representation

```
<...  
currency="Currency [1]">  
  Amount  
</...>
```

RentDaysQuantity

These field(s) use this type: **RentDaysQuantity**.

Number of days rental/loaner was out

Name	RentDaysQuantity
Abstract	no

XML Instance Representation

Change Repair Order

<...>
Count
</...>

RentLoaner

These field(s) use this type: RentLoaner,RentLoaner,RentLoaner,RentLoaner,RentLoaner.

Name	RentLoaner
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
VIN	Rental Loaner Vehicle Identification Number	O	
RentDaysQuantity	Number of days rental/loaner was out	O	
RentOutDate	Date rental/loaner vehicle provided to customer	O	
RentInDate	Date rental/loaner vehicle turned in by customer	O	
Model	Model description of rental/loaner vehicle	O	
RentNotes	Rent Loaner Comments	O	
RentLoanerCode	Identifies rental/loaner vehicle	O	Values: L - Loaner, R - Rental
RentLoanerInvoiceNumber	Rental/loaner accounting identifier - the Rental Loaner Invoice # from either the DMS or rental company	O	
Price	Total Price paid for rental/loaner Including tax	O	Values: RentLoaner
RentLoanerHours	Number of hours the rental loaner was used by the customer	O	
Make	Vehicle make code - Usually available in the VIN number (use NCIC code).	O	(INACTIVE)
DailyRate	Actual Daily rate paid for the vehicle	O	(INACTIVE)

Change Repair Order

Field / Component	Description	R/O	Business Rule
RentLoanerReasonCode	The reason code identifying the reason a rental loaner was provided	O	(INACTIVE)
Tax	Actual amount of tax paid on rentalLoaner	O	
ProviderName	Party that provided the service or vehicle	O	(INACTIVE)

XML Instance Representation

```
<...>
  <VIN> VIN </VIN> [0..1]
  <RentDaysQuantity> RentDaysQuantity </RentDaysQuantity> [0..1]
  <RentOutDate> RentOutDate </RentOutDate> [0..1]
  <RentInDate> RentInDate </RentInDate> [0..1]
  <Model> Model </Model> [0..1]
  <RentNotes> RentNotes </RentNotes> [0..1]
  <RentLoanerCode> RentLoanerCode </RentLoanerCode> [0..1]
  <RentLoanerInvoiceNumber> RentLoanerInvoiceNumber </RentLoanerInvoiceNumber> [0..1]
  <Price> Price </Price> [0..1]
  <RentLoanerHours> RentLoanerHours </RentLoanerHours> [0..1]
  <Make> Make </Make> [0..1]
  <DailyRate> DailyRate </DailyRate> [0..1]
  <RentLoanerReasonCode> RentLoanerReasonCode </RentLoanerReasonCode> [0..1]
  <Tax> Tax </Tax> [0..*]
  <ProviderName> ProviderName </ProviderName> [0..1]
</...>
```

RentLoanerBase

Name	RentLoanerBase
Abstract	no

Data Elements and Components

Change Repair Order

Field / Component	Description	R/O	Business Rule
VIN	Rental Loaner Vehicle Identification Number	O	
RentDaysQuantity	Number of days rental/loaner was out	O	
RentOutDate	Date rental/loaner vehicle provided to customer	O	
RentInDate	Date rental/loaner vehicle turned in by customer	O	
Model	Model description of rental/loaner vehicle	O	
RentNotes	Rent Loaner Comments	O	

XML Instance Representation

```
<...>
  <VIN> VIN </VIN> [0..1]
  <RentDaysQuantity> RentDaysQuantity </RentDaysQuantity> [0..1]
  <RentOutDate> RentOutDate </RentOutDate> [0..1]
  <RentInDate> RentInDate </RentInDate> [0..1]
  <Model> Model </Model> [0..1]
  <RentNotes> RentNotes </RentNotes> [0..1]
</...>
```

RentLoanerHours

These field(s) use this type: **RentLoanerHours**.

Number of hours the rental loaner was used by the customer.

Name	RentLoanerHours
Abstract	no

XML Instance Representation

```
<...>
  Hours
</...>
```

Change Repair Order

RepairOrder

These field(s) use this type: **RepairOrder**.

STAR Version 3.0 - Draft

STAR Version 2.1, STAR approved 04/20/2005; effective date 07/04/2005

STAR Version 2.0, STAR approved 05/07/2004; effective date 07/04/2004

STAR Version 1.1 STAR approved 04/09/2003; OAGI approved 8/16/2002 effective date 07/04/2003

STAR Version 1.0, STAR approved 8/6/2002; OAGI approved 8/16/2002; effective date 1/01/2003

Name	RepairOrder
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
Header		R	
Job	Jobs related to Warranty Claim Jobs related to Internal Pay	O	
JobReferback	Job Referback related to Warranty Claim Job Referback related to Internal Pay	O	
WarrantyClaim	Warranty Claim information related to job	O	
InternalPay		O	

XML Instance Representation

```
<...>
  <Header> ... </Header> [1]
  <Job> ... </Job> [0..*]
  <JobReferback> ... </JobReferback> [0..*]
  <WarrantyClaim> ... </WarrantyClaim> [0..*]
  <InternalPay> ... </InternalPay> [0..*]
</...>
```

Change Repair Order

RepairOrderHeader

These field(s) use this type: **Header**.

Name	RepairOrderHeader
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
DocumentDateTime	Is the date and time the document was last created. This is not the date and time that the BOD message instance was created.	O	
SecondaryPassword	Secondary password used to validate access to the dealer information	O	
SecondaryDealerNumber	Identifies secondary dealer number if different than primary "Dealer Number"	O	
DocumentId	Repair Order Number	R	
SecondaryReferenceNumber	Secondary Repair Order reference number	O	(INACTIVE)
Dealer	Dealer that Repair Order is being processed for	O	(INACTIVE) Dealer that Repair Order is being processed.
IndividualOwner	Individual who owns the vehicle	O	Either the IndividualOwner or OrganizationalOwner component can be used but not both.
OrganizationalOwner	Organization that owns the vehicle	O	
IndividualCo-Owner	Individual who co-owns the vehicle	O	Can only be used if the IndividualOwner component is used

Change Repair Order

Field / Component	Description	R/O	Business Rule
OrganizationalCo-Owner	Organization that co-owns the vehicle	O	Can only be used if the OrganizationalOwner component is used.
PrimaryDriver	Primary driver of the vehicle	O	(INACTIVE)
SecondaryDriver	Secondary driver(s) of the vehicle	O	(INACTIVE)
Vehicle	Static information on vehicle	O	Please note that although the Schema shows this as an Optional component, in this BOD usage, it should be Required
Warranty	Vehicle warranty information	O	
ServiceContract	Vehicle Service Contract(s)	O	(INACTIVE)
CASE	Customer arbitration information	O	(INACTIVE)
RepairOrderOpenedDate	System date when Repair Order was opened	O	In YYYY-MM-DD format
RepairOrderCompletedDate	The date the last line was closed on the repair order	O	
RepairOrderInvoiceDate	The date the repair order transaction moves to accounting	O	In YYYY-MM-DD format Whenever the Repair Order has Customer Pay, this field needs to be populated.
ServiceAdvisor	Service Advisor for repair order	O	Please note that although the Schema shows this as an Optional component, in this BOD usage, it should be Required
MileageIn	Odometer reading of vehicle when repair order was opened	O	Requires “uom” attribute for mileage type K – Kilometers, M – Miles Please note that although the Schema shows this as an Optional field in this BOD usage, it should be Required

Change Repair Order

Field / Component	Description	R/O	Business Rule
MileageOut	Odometer reading of vehicle when repair order was opened	O	Requires "uom" attribute for mileage type K – Kilometers, M – Miles Please note that although the Schema shows this as an Optional field in this BOD usage, it should be Required
OrderNotes	Free form text for general repair order comment which will be printed on the invoice		
OrderInternalNotes	Free form text for internal repair order remarks that will NOT be printed on the invoice	O	(INACTIVE)
DepartmentType	Identifies the internal department	O	If an Internal Pay Repair Order, this field needs to be populated
RentLoaner	Rental or Loaner vehicles associated with Repair Order	O	
ServiceComponents	Service Components associated with Repair Order (Miscellaneous, GasOilGrease, PaintMaterials, ShopSupplies and Freight	O	Values: Miscellaneous, GasOilGrease, PaintMaterials, ShopSupplies, Freight Required if any of the Values listed are used.
Sublet	Service Components associated with Repair Order (Miscellaneous, GasOilGrease, PaintMaterials, ShopSupplies and Freight	O	
LaborRate	Dealer Posted Hourly Retail Labor Rate	O	Requires "currency" attribute
Price	Customer Pay, Warranty and Internal Pay totals	O	Values: Customer, Claim, Internal Please note that although the Schema shows this as an Optional component, at least one Price component needs to be sent – either the 'Customer' 'Claim' or 'Internal
Tax	Total Repair Order taxes	O	

Change Repair Order

Field / Component	Description	R/O	Business Rule
DataCollectionStatus	Indicates status of data for the record it appears on , either complete or incomplete	O	Values: C - Complete, I - Incomplete
ESCFranchiseInd	Extended Service Competitive (ESC) flag indicates if dealer has franchise for Extended Service Program (ESP) repair for competitive make	O	(INACTIVE) Values: 1 - Yes, 0 - No
Splits	Splits total for Repair Order	O	Value: Total
TreadActInd	Indicates if there has been fire damage (i.e., could indicate any tread related repair)	O	Values: 1 - Yes, 0 - No
LocationId	Code identifying the physical location of a dealer.	O	
RepairOrderStatus	Status of the repair order.	O	

XML Instance Representation

```

<...>
  <DocumentDateTime> DocumentDateTime </DocumentDateTime> [0..1]
  <SecondaryPassword> SecondaryPassword </SecondaryPassword> [0..1]
  <SecondaryDealerNumber> SecondaryDealerNumber </SecondaryDealerNumber> [0..1]
  <DocumentId> DocumentId </DocumentId> [1]
  <SecondaryReferenceNumber> SecondaryReferenceNumber </SecondaryReferenceNumber> [0..1]
  <Dealer> ROServiceDealerParty </Dealer> [0..1]
  <IndividualOwner> IndividualOwnerPartyExtendedRO </IndividualOwner> [0..1]
  <OrganizationalOwner> OrganizationalOwnerPartyExtendedRO </OrganizationalOwner> [0..1]
  <IndividualCo-Owner> IndividualOwnerPartyExtendedRO </IndividualCo-Owner> [0..1]
  <OrganizationalCo-Owner> OrganizationalOwnerPartyExtendedRO </OrganizationalCo-Owner> [0..1]
  <PrimaryDriver> IndividualOwnerPartyExtendedRO </PrimaryDriver> [0..1]
  <SecondaryDriver> IndividualOwnerPartyExtendedRO </SecondaryDriver> [0..*]
  <Vehicle> ServiceVehicle </Vehicle> [0..1]
  <Warranty> WarrantyAdditional </Warranty> [0..*]
  <ServiceContract> FullServiceContract </ServiceContract> [0..*]
  <CASE> CASE </CASE> [0..*]
  <RepairOrderOpenedDate> RepairOrderOpenedDate </RepairOrderOpenedDate> [0..1]
  <RepairOrderCompletedDate> RepairOrderCompletedDate </RepairOrderCompletedDate> [0..1]

```

Change Repair Order

```
<RepairOrderInvoiceDate> RepairOrderInvoiceDate </RepairOrderInvoiceDate> [0..1]
<ServiceAdvisor> ServiceAdvisor </ServiceAdvisor> [0..1]
<MileageIn> MileageIn </MileageIn> [0..1]
<MileageOut> MileageOut </MileageOut> [0..1]
<OrderNotes> OrderNotes </OrderNotes> [0..1]
<OrderInternalNotes> OrderInternalNotes </OrderInternalNotes> [0..1]
<DepartmentType> DepartmentType </DepartmentType> [0..1]
<RentLoaner> RentLoaner </RentLoaner> [0..*]
<ServiceComponents> ServiceComponents </ServiceComponents> [0..*]
<Sublet> Sublet </Sublet> [0..*]
<LaborRate> LaborRate </LaborRate> [0..1]
<Price> Price </Price> [0..3]
<Tax> Tax </Tax> [0..*]
<DataCollectionStatus> DataCollectionStatus </DataCollectionStatus> [0..1]
<ESCFranchiseInd> ESCFranchiseInd </ESCFranchiseInd> [0..1]
<Splits> Splits </Splits> [0..1]
<TreadActInd> TreadActInd </TreadActInd> [0..1]
<LocationId> LocationId </LocationId> [0..1]
<RepairOrderStatus> ServiceContractStatus </RepairOrderStatus> [0..*]
</...>
```

ReplacementSerialNumbers

These field(s) use this type: **ReplacementSerialNumbers**.

represents information about the parts replaced on the job

Name	ReplacementSerialNumbers
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
OriginalSerialNumber	The serial number of the part that is being replaced	O	
ReplacementSerialNumber	The serial number of the part that is used to replace another part	O	

Change Repair Order

Field / Component	Description	R/O	Business Rule
ItemId	The Part Number or Manufacturer Code of the part used to replace another part>	O	
PartType	Specifies whether the parts are indicated by manufacturer part code or Part Number	O	Values: H - Manufacturer Part Code, P - Part number is used

XML Instance Representation

```
<...>
  <OriginalSerialNumber> OriginalSerialNumber </OriginalSerialNumber> [0..1]
  <ReplacementSerialNumber> ReplacementSerialNumber </ReplacementSerialNumber> [0..1]
  <ItemId> ItemId </ItemId> [0..1]
  <PartType> PartType </PartType> [0..1]
</...>
```

RestrictionDescription

These field(s) use this type: **RestrictionDescription**.

Description of vehicle use restrictions

Name	RestrictionDescription
Abstract	no

XML Instance Representation

```
<...
language="Language [0..1]">
  Description
</...>
```

ROServiceDealerParty

These field(s) use this type: **Dealer**.

Name	ROServiceDealerParty
------	----------------------

Change Repair Order

Abstract no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PartyId	Party Identification Number	O	
DealerName	Dealer name	O	
DistrictCode	Manufacturer Assigned District Code	O	
URI	Dealer URI	O	
ZoneCode	Manufacturer Assigned Zone Code	O	
BusinessCenter	Identification of business area. Example: grouping of zones	O	
MarketCode	A market code that designates the market area.	O	

XML Instance Representation

```
<...>
  <PartyId> PartyId </PartyId> [0..1]
  <DealerName> DealerName </DealerName> [0..1]
  <DistrictCode> DistrictCode </DistrictCode> [0..1]
  <URI> URI </URI> [0..1]
  <ZoneCode> ZoneCode </ZoneCode> [0..1]
  <BusinessCenter> BusinessCenter </BusinessCenter> [0..1]
  <MarketCode> MarketCode </MarketCode> [0..1]
</...>
```

SecondaryDealerNumber

These field(s) use this type: **SecondaryDealerNumber**.

Identifies secondary dealer number if different than primary "Dealer Number"

Name SecondaryDealerNumber

Abstract no

Change Repair Order

XML Instance Representation

```
<...>  
  Id  
</...>
```

Sender

These field(s) use this type: **Sender**.

Name	Sender
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
LogicalId	Provides the logical location of the server and applications from which the Business Object Document originated. It can be used to establish a logical to physical mapping, however its use is optional. Each system or combination of systems should maintain an external central reference table containing the logical names or logical addresses of the application systems in the integration configuration. This enables the logical names to be mapped to the physical network addresses of the resources needed on the network. Note: The technical implementation of this Domain Naming Service is not dictated by this specification. This logical to physical mapping may be done at execution time by the application itself or by a middleware transport mechanism, depending on the integration architecture used. This provides for a simple but effective directory access capability while maintaining application independence from the physical location of those resources on the network	O	
Component	Provides a finer level of control than Logical Identifier and represents the business application that issued the Business Object Document. Its use is optional. For STAR's use this is the DCS Software code name		
Task	Describes the business event that initiated the need for the Business Object Document to be created. For STAR, the task is defined in the Implementation Guidelines for each BOD. It is usually a short description of the BOD. Ex: SalesLead, CreditDecision, etc.	R	

Change Repair Order

Field / Component	Description	R/O	Business Rule
ReferenceId	Enables the sending application to indicate the instance identifier of the event or task that caused the BOD to be created. This is used to correlate a response BOD to an originating BOD	O	
AuthorizationId	Identifies the authorization level of the user or application that is sending the Business Object Document Message. This authorization level being recognized by the receiving system indicates what can be done on the receiving system. For STAR, this is the User ID.	O	
CreatorNameCode	DCS Software Creator Code	R	
SenderNameCode	Additional information about the sending platform (i.e., Short MFG or DSP code).	R	Must use a valid code from the ShortMfg/RSP list on http://www.starstandards.org
SenderURI	Physical address of the sender	O	
DealerNumber	Dealer Code of source of information	O	
StoreNumber	Dealer code store number (DMS assigned)	O	
AreaNumber	Dealer code area number (DMS vendor assigned)	O	
DealerCountry	Source Dealer country location	O	
Language	This code is used to define the language of the data used in this transaction	O	
DeliverPendingMailInd	Indicates if the user requests to receive pending mail that has been stored and has yet not been delivered yet. By selecting 0, the user will only receive the response for the current transaction the user is performing.	O	1 - Receive Pending Mail. 0 - Do not receive pending mail.
Password	Token for application specific authentication. Used to authenticate dealership/users through application specific security	O	
SystemVersion	The sender's software version number.	O	

Change Repair Order

Field / Component	Description	R/O	Business Rule
PartyId	The Party Id field uniquely identifies the Sender of the message. This element can be used for parties within the Automotive Community as well as external parties. Party Id is not intended as a replacement for the Dealer Number. Suggested formats for OEMs or other large institutions include: DUNs Number, ShortMfgCode + DUNs, or ShortMfgCode. The suggested format for Dealers is: ShortMfgCode+Dealer Number.	O	
LocationId	The Location Id field uniquely identifies the location of the Sender of a message. This Id may be aligned with a physical address or data centers. This field provides an additional level of granularity beyond the usage of the Party Id for additional routing and deliver of data.	O	
ServiceId	The Service Id field identifies the particular service from which a message is being sent, e.g., an inventory service.	O	

XML Instance Representation

```

<...>
  <LogicalId> Text </LogicalId> [0..1]
  <Component> Text </Component> [1]
  <Task> Text </Task> [1]
  <ReferenceId> Reference </ReferenceId> [0..1]
  <AuthorizationId> Id </AuthorizationId> [0..1]
  <CreatorNameCode> Text </CreatorNameCode> [1]
  <SenderNameCode> ShortMfg </SenderNameCode> [1]
  <SenderURI> URI </SenderURI> [0..1]
  <DealerNumber> PartyId </DealerNumber> [0..1]
  <StoreNumber> Text </StoreNumber> [0..1]
  <AreaNumber> Text </AreaNumber> [0..1]
  <DealerCountry> Country </DealerCountry> [0..1]
  <Language> Language </Language> [0..1]
  <DeliverPendingMailInd> Indicator </DeliverPendingMailInd> [0..1]
  <Password> Text </Password> [0..1]
  <SystemVersion> SystemVersion </SystemVersion> [0..1]
  <PartyId> PartyId </PartyId> [0..1]
  <LocationId> LocationId </LocationId> [0..1]
  <ServiceId> ServiceId </ServiceId> [0..1]

```

Change Repair Order

</...>

SenderBase

Name SenderBase

Abstract no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
LogicalId	Provides the logical location of the server and applications from which the Business Object Document originated. It can be used to establish a logical to physical mapping, however its use is optional. Each system or combination of systems should maintain an external central reference table containing the logical names or logical addresses of the application systems in the integration configuration. This enables the logical names to be mapped to the physical network addresses of the resources needed on the network. Note: The technical implementation of this Domain Naming Service is not dictated by this specification. This logical to physical mapping may be done at execution time by the application itself or by a middleware transport mechanism, depending on the integration architecture used. This provides for a simple but effective directory access capability while maintaining application independence from the physical location of those resources on the network	O	
Component	Provides a finer level of control than Logical Identifier and represents the business application that issued the Business Object Document. Its use is optional. For STAR's use this is the DCS Software code name		
Task	Describes the business event that initiated the need for the Business Object Document to be created. For STAR, the task is defined in the Implementation Guidelines for each BOD. It is usually a short description of the BOD. Ex: SalesLead, CreditDecision, etc.	R	
ReferenceId	Enables the sending application to indicate the instance identifier of the event or task that caused the BOD to be created. This is used to correlate a response BOD to an originating BOD	O	

Change Repair Order

Field / Component	Description	R/O	Business Rule
AuthorizationId	Identifies the authorization level of the user or application that is sending the Business Object Document Message. This authorization level being recognized by the receiving system indicates what can be done on the receiving system. For STAR, this is the User ID.	O	

XML Instance Representation

```
<...>  
  <LogicalId> Text </LogicalId> [0..1]  
  <Component> Text </Component> [1]  
  <Task> Text </Task> [1]  
  <ReferenceId> Reference </ReferenceId> [0..1]  
  <AuthorizationId> Id </AuthorizationId> [0..1]  
</...>
```

ServiceAdvisor

These field(s) use this type: **ServiceAdvisor**.

Name	ServiceAdvisor
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PartyId	Party Identification Number	O	
AlternatePartyIds	Social security number or other legal document Id of service advisor assigned to Repair Order	O	
ServiceAdvisorName	Name of service advisor	O	Please note that although the Schema shows this as an Optional field, in this BOD usage, it should be Required.

XML Instance Representation

Change Repair Order

```
<...>
  <PartyId> PartyId </PartyId> [0..1]
  <AlternatePartyIds> OrganizationalPartyAlternatePartyId </AlternatePartyIds> [0..*]
  <ServiceAdvisorName> ServiceAdvisorName </ServiceAdvisorName> [0..1]
</...>
```

ServiceCampaign

These field(s) use this type: ServiceCampaign,ServiceCampaign.

Name	ServiceCampaign
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
CampaignNumber	Manufacturer assigned campaign number	O	
CampaignOptionCode	Manufacturer assigned Campaign Option Code	O	
CampaignReimbursementCode	A campaign related field specifying the reimbursement code for a campaign service. Reimbursement codes denote the mix of part and labor operations the dealer used to perform the service. Ex: Numeric value between 1 and 9	O	
CampaignDescription	Service Campaign Description	O	
CampaignDispositionCode	A campaign related field specifying the disposition of a campaign Ex: completed, open, etc.	O	
SupplementalCampaignInd	Denotes whether claim is actual campaign service or additional service, but still related to the campaign	O	
CampaignNotes	Free form comments related to campaign	O	

XML Instance Representation

```
<...>
  <CampaignNumber> CampaignNumber </CampaignNumber> [0..1]
</...>
```

Change Repair Order

```
<CampaignOptionCode> CampaignOptionCode </CampaignOptionCode> [0..1]
<CampaignReimbursementCode> CampaignReimbursementCode </CampaignReimbursementCode> [0..1]
<CampaignDescription> CampaignDescription </CampaignDescription> [0..1]
<CampaignDispositionCode> CampaignDispositionCode </CampaignDispositionCode> [0..1]
<SupplementalCampaignInd> SupplementalCampaignInd </SupplementalCampaignInd> [0..1]
<CampaignNotes> CampaignNotes </CampaignNotes> [0..1]
</...>
```

ServiceCampaignExtended

These field(s) use this type: **ServiceCampaign**.

Name	ServiceCampaignExtended
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
CampaignNumber	Manufacturer assigned campaign number	O	
CampaignOptionCode	Manufacturer assigned Campaign Option Code	O	
CampaignReimbursementCode	A campaign related field specifying the reimbursement code for a campaign service. Reimbursement codes denote the mix of part and labor operations the dealer used to perform the service. Ex: Numeric value between 1 and 9	O	
CampaignDescription	Service Campaign Description	O	
CampaignDispositionCode	A campaign related field specifying the disposition of a campaign Ex: completed, open, etc.	O	
SupplementalCampaignInd	Denotes whether claim is actual campaign service or additional service, but still related to the campaign	O	
CampaignNotes	Free form comments related to campaign	O	
CampaignBulletinId	Identification of the service bulletin associated with a particular campaign	O	

Change Repair Order

XML Instance Representation

```
<...>
  <CampaignNumber> CampaignNumber </CampaignNumber> [0..1]
  <CampaignOptionCode> CampaignOptionCode </CampaignOptionCode> [0..1]
  <CampaignReimbursementCode> CampaignReimbursementCode </CampaignReimbursementCode> [0..1]
  <CampaignDescription> CampaignDescription </CampaignDescription> [0..1]
  <CampaignDispositionCode> CampaignDispositionCode </CampaignDispositionCode> [0..1]
  <SupplementalCampaignInd> SupplementalCampaignInd </SupplementalCampaignInd> [0..1]
  <CampaignNotes> CampaignNotes </CampaignNotes> [0..1]
  <CampaignBulletinId> CampaignBulletinId </CampaignBulletinId> [0..1]
</...>
```

ServiceComponents

These field(s) use this type: ServiceComponents,ServiceComponents,ServiceComponents,ServiceComponents,ServiceComponents.

Name	ServiceComponents
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
ComponentType	Identifies the type of ServiceComponent	R	
ServiceCode	Manufacturer assigned code for service component associated with job	O	
ServiceDescription	Free form text description of service component associated with job	O	
Price	Price and cost information assoicated with service component	O	
ItemQuantity	Quantity used for service component	O	
ExpenseHours	Time allotted for administrative work	O	(INACTIVE)
AppealActionCode	Defines action to be taken on appeal	O	(INACTIVE)

Change Repair Order

Field / Component	Description	R/O	Business Rule
DocumentId	Free form entry for document associated with service component (i.e., Shipper, BOL, Invoice, etc.)	O	
Splits	Splits associated with service component	O	
Tax	Tax associated with service component	O	
CarrierId	Carrier code related to service component	O	

XML Instance Representation

```
<...>
  <ComponentType> ComponentType </ComponentType> [1]
  <ServiceCode> ServiceCode </ServiceCode> [0..1]
  <ServiceDescription> ServiceDescription </ServiceDescription> [0..1]
  <Price> Price </Price> [0..1]
  <ItemQuantity> ItemQuantity </ItemQuantity> [0..1]
  <ExpenseHours> ExpenseHours </ExpenseHours> [0..1]
  <AppealActionCode> AppealActionCode </AppealActionCode> [0..1]
  <DocumentId> DocumentId </DocumentId> [0..1]
  <Splits> Splits </Splits> [0..1]
  <Tax> Tax </Tax> [0..*]
  <CarrierId> CarrierId </CarrierId> [0..1]
</...>
```

ServiceContractBase

Name	ServiceContractBase
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
ContractCompanyName	Service contract company name	O	
ContractId	Identification of Service Contract	O	

Change Repair Order

Field / Component	Description	R/O	Business Rule
ContractPlanCode	Service Contract Plan Code	O	
ContractType	Service contract type and/or area of coverage	O	
ContractPlanDescription	Description of service plan. Example: 36 MONTH/36000 MILE"	O	
Term	Number of months in contract plan	O	
ContractStartDate	Service Contract sale Date	O	
ContractDeductible	Amount of Deductible at time of service Eg:\$50.00	O	
ContractExpirationDate	Date the Service contract expires	O	
ContractStartMileage	Odometer reading when contract becomes effective	O	
ContractTermMileage	Mileage allowed under terms of service contract	O	
ContractOwnerName	Name on service Contract (i.e., full name - First Last)	O	
InsuranceCompanyName	Memo Field for carrier covering extended service contract	O	
TotalContractAmount	Total amount of the service contract.	O	
ContractNote	Free form comments that relate to the contract	O	

XML Instance Representation

```

<...>
  <ContractCompanyName> ContractCompanyName </ContractCompanyName> [0..1]
  <ContractId> ContractId </ContractId> [0..1]
  <ContractPlanCode> ContractPlanCode </ContractPlanCode> [0..1]
  <ContractType> ContractType </ContractType> [0..1]
  <ContractPlanDescription> ContractPlanDescription </ContractPlanDescription> [0..1]
  <Term> Term </Term> [0..1]
  <ContractStartDate> ContractStartDate </ContractStartDate> [0..1]
  <ContractDeductible> ContractDeductible </ContractDeductible> [0..1]
  <ContractExpirationDate> ContractExpirationDate </ContractExpirationDate> [0..1]
  <ContractStartMileage> ContractStartMileage </ContractStartMileage> [0..1]
  <ContractTermMileage> ContractTermMileage </ContractTermMileage> [0..1]
  <ContractOwnerName> ContractOwnerName </ContractOwnerName> [0..1]

```


Change Repair Order

```
<InsuranceCompanyName> InsuranceCompanyName </InsuranceCompanyName> [0..1]
<TotalContractAmount> TotalContractAmount </TotalContractAmount> [0..1]
<ContractNote> ContractNote </ContractNote> [0..1]
</...>
```

ServiceContractStatus

These field(s) use this type: RepairOrderStatus.

Status of the service contract

Name	ServiceContractStatus
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
StatusType	Defines the type of status that occurred.	O	
StatusCode	A code identifying the reason for a status message.	O	
StatusText	Descriptive status text.	O	

XML Instance Representation

```
<...>
  <StatusType> StatusType </StatusType> [0..1]
  <StatusCode> StatusCode </StatusCode> [0..1]
  <StatusText> StatusText </StatusText> [0..1]
</...>
```

ServiceDealerParty

Name	ServiceDealerParty
Abstract	no

Change Repair Order

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PartyId	Party Identification Number	O	
DealerName	Dealer name	O	
DistrictCode	Manufacturer Assigned District Code	O	
URI	Dealer URI	O	
ZoneCode	Manufacturer Assigned Zone Code	O	
BusinessCenter	Identification of business area. Example: grouping of zones	O	

XML Instance Representation

```
<...>
  <PartyId> PartyId </PartyId> [0..1]
  <DealerName> DealerName </DealerName> [0..1]
  <DistrictCode> DistrictCode </DistrictCode> [0..1]
  <URI> URI </URI> [0..1]
  <ZoneCode> ZoneCode </ZoneCode> [0..1]
  <BusinessCenter> BusinessCenter </BusinessCenter> [0..1]
</...>
```

ServiceDescription

These field(s) use this type: **ServiceDescription**.

Free form text description of service component

Name	ServiceDescription
Abstract	no

XML Instance Representation

```
<...
language="Language [0..1]">
```

Change Repair Order

Description
</...>

ServiceId

These field(s) use this type: ServiceId,ServiceId.

The Service Id field identifies the particular service to or from which a message is being sent, e.g., an inventory service.

Name	ServiceId
Abstract	no

XML Instance Representation

<...>
Id
</...>

ServiceLabor

These field(s) use this type: ServiceLabor,ServiceLabor.

Name	ServiceLabor
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
LaborOperationId	Currently assigned code for this operation (preferably manufacturer code)	O	
LaborOperationIdType	Labor operation category code	O	
LaborOperationDescription	Description of a particular operation code	O	
PartNameCodeDescription	Description of Part identifier (PNC) that caused the failure	O	

Change Repair Order

Field / Component	Description	R/O	Business Rule
LaborOperationLocation	Code Indicating Position/Location on Vehicle where labor was performed	O	
LaborActionCode	Manufacturer-assigned code to describe type of labor performed	O	
LaborAllowanceHours	Flat rate labor hour allowance for this operation	O	
LaborAdditionalHours	Additional labor hours above flat rate allowance	O	
LaborOperationQuantity	Number of times this operation was performed for this labor line	O	
Diagnostics	Diagnostics from vehicle service associated with labor	O	
AdditionalHoursLaborComment	Explanation for the need for the additional labor hours	O	(INACTIVE)
PartNameCode	Part identifier which is comprised of a system and component code that caused the failure	O	
LaborRate	Labor Rate for this operation code	O	
Price	Labor Price for labor operation code	O	Please note that although the Schema shows this as an Optional component, in this BOD usage, it should be Required.
AppealActionCode	Defines action to be taken on appeal	O	(INACTIVE)
MainOperationCode	Identifies the primary laborline or "main operator" that caused the vehicle to be serviced in the first place	O	(INACTIVE)
LaborActualHours	Actual labor hours spent by the technician to complete this labor operation	O	
NoChargeLaborCode	Indicates this labor operation is a no-charge (e.g, NC=Nop Charge; OL=Overlapping)	O	
LaborOperationPolicyCode	Dealer assigned Policy code for the labor operation	O	(INACTIVE)
LaborNarrative	Labor Narrative related to Labor	O	
LaborOperationComment	Free form comment regarding the labor operation.	O	(INACTIVE)

Change Repair Order

Field / Component	Description	R/O	Business Rule
Technician	Technicians related to labor operation	O	
Tax	Actual amount of tax paid on parts	O	
Splits	Part Adjustment	O	
ServiceParts	Parts related to labor operation	O	
Sublet	Sublet related to labor operation	O	

XML Instance Representation

```
<...>
  <LaborOperationId> LaborOperationId </LaborOperationId> [0..1]
  <LaborOperationIdType> LaborOperationIdType </LaborOperationIdType> [0..1]
  <LaborOperationDescription> LaborOperationDescription </LaborOperationDescription> [0..1]
  <PartNameCodeDescription> PartNameCodeDescription </PartNameCodeDescription> [0..1]
  <LaborOperationLocation> LaborOperationLocation </LaborOperationLocation> [0..1]
  <LaborActionCode> LaborActionCode </LaborActionCode> [0..1]
  <LaborAllowanceHours> LaborAllowanceHours </LaborAllowanceHours> [0..1]
  <LaborAdditionalHours> LaborAdditionalHours </LaborAdditionalHours> [0..1]
  <LaborOperationQuantity> LaborOperationQuantity </LaborOperationQuantity> [0..1]
  <Diagnostics> Diagnostics </Diagnostics> [0..*]
  <AdditionalHoursLaborComment> AdditionalHoursLaborComment </AdditionalHoursLaborComment> [0..1]
  <PartNameCode> PartNameCode </PartNameCode> [0..1]
  <LaborRate> LaborRate </LaborRate> [0..1]
  <Price> Price </Price> [0..1]
  <AppealActionCode> AppealActionCode </AppealActionCode> [0..1]
  <MainOperationCode> MainOperationCode </MainOperationCode> [0..1]
  <LaborActualHours> LaborActualHours </LaborActualHours> [0..1]
  <NoChargeLaborCode> NoChargeLaborCode </NoChargeLaborCode> [0..1]
  <LaborOperationPolicyCode> LaborOperationPolicyCode </LaborOperationPolicyCode> [0..1]
  <LaborNarrative> LaborNarrative </LaborNarrative> [0..*]
  <LaborOperationComment> LaborOperationComment </LaborOperationComment> [0..1]
  <Technician> ServiceTechnician </Technician> [0..*]
  <Tax> Tax </Tax> [0..*]
  <Splits> Splits </Splits> [0..1]
</...>
```

Change Repair Order

```
<ServiceParts> ServiceParts </ServiceParts> [0..*]  
<Sublet> Sublet </Sublet> [0..*]  
</...>
```

ServiceLaborBase

Name	ServiceLaborBase
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
LaborOperationId	Currently assigned code for this operation (preferably manufacturer code)	O	
LaborOperationIdType	Labor operation category code	O	
LaborOperationDescription	Description of a particular operation code	O	
PartNameCodeDescription	Description of Part identifier (PNC) that caused the failure	O	
LaborOperationLocation	Code Indicating Position/Location on Vehicle where labor was performed	O	
LaborActionCode	Manufacturer-assigned code to describe type of labor performed	O	
LaborAllowanceHours	Flat rate labor hour allowance for this operation	O	
LaborAdditionalHours	Additional labor hours above flat rate allowance	O	
LaborOperationQuantity	Number of times this operation was performed for this labor line	O	
Diagnostics	Diagnostics from vehicle service associated with labor	O	

XML Instance Representation

```
<...>  
  <LaborOperationId> LaborOperationId </LaborOperationId> [0..1]  
  <LaborOperationIdType> LaborOperationIdType </LaborOperationIdType> [0..1]  
  <LaborOperationDescription> LaborOperationDescription </LaborOperationDescription> [0..1]  
</...>
```

Change Repair Order

```
<PartNameCodeDescription> PartNameCodeDescription </PartNameCodeDescription> [0..1]
<LaborOperationLocation> LaborOperationLocation </LaborOperationLocation> [0..1]
<LaborActionCode> LaborActionCode </LaborActionCode> [0..1]
<LaborAllowanceHours> LaborAllowanceHours </LaborAllowanceHours> [0..1]
<LaborAdditionalHours> LaborAdditionalHours </LaborAdditionalHours> [0..1]
<LaborOperationQuantity> LaborOperationQuantity </LaborOperationQuantity> [0..1]
<Diagnostics> Diagnostics </Diagnostics> [0..*]
</...>
```

ServiceOption

These field(s) use this type: **Option**.

Name	ServiceOption
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
OptionType	An option type for a vehicle or other component. Usually references an OEM supplied list of codes.	O	
OptionName	Name of vehicle option	O	
OptionStockNumber	Stock Number of Vehicle Option	O	
Manufacturer	Manufacturer of Vehicle Option	O	
OptionSecurityCode	Security code to unlock option. (i.e, radio code)	O	

XML Instance Representation

```
<...>
  <OptionType> OptionType </OptionType> [0..1]
  <OptionName> OptionName </OptionName> [0..1]
  <OptionStockNumber> OptionStockNumber </OptionStockNumber> [0..1]
  <Manufacturer> Manufacturer </Manufacturer> [0..1]
  <OptionSecurityCode> OptionSecurityCode </OptionSecurityCode> [0..1]
</...>
```

Change Repair Order

</...>

ServiceParts

These field(s) use this type: ServiceParts,ServiceParts,ServiceParts.

Name	ServiceParts
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
ItemId	Item part number identifier	O	
ItemIdDescription	Item part number detail description	O	
ItemQuantity	Quantity of Part number used on service	O	
GroupNumber	Group Number	O	
PartType	Specifies whether the parts are indicated by manufacturer part code or Part Number	O	
Price	Price and cost for parts and return core	O	Values: Parts, ReturnCore Please note that although the Schema shows this as an Optional component, in this BOD usage, it should be Required for this PriceType
AppealActionCode	Defines action to be taken on appeal	O	
PartAccessoryInd	Indicates whether this is an accessory	O	Values: 1 - Yes, 0 - No
PartSourceCode	Indicates the source of the part (e.g. M - Manufacturer)	O	
MarkupPercentage	Dealer submitted part markup percentage	O	
MarkupType	Specifies the markup applied by system or dealership input (e.g., S=System)	O	

Change Repair Order

Field / Component	Description	R/O	Business Rule
ReplacementSerialNumbers	ReplacementSerialNumber	O	
Tax	Actual amount of tax paid on parts	O	
Splits	Part Adjustment	O	

XML Instance Representation

```
<...>
  <ItemId> ItemId </ItemId> [0..1]
  <ItemIdDescription> ItemIdDescription </ItemIdDescription> [0..1]
  <ItemQuantity> ItemQuantity </ItemQuantity> [0..1]
  <GroupNumber> GroupNumber </GroupNumber> [0..1]
  <PartType> PartType </PartType> [0..1]
  <Price> Price </Price> [0..*]
  <AppealActionCode> AppealActionCode </AppealActionCode> [0..1]
  <PartAccessoryInd> PartAccessoryInd </PartAccessoryInd> [0..1]
  <PartSourceCode> PartSourceCode </PartSourceCode> [0..1]
  <MarkupPercentage> MarkupPercentage </MarkupPercentage> [0..1]
  <MarkupType> MarkupType </MarkupType> [0..1]
  <ReplacementSerialNumbers> ReplacementSerialNumbers </ReplacementSerialNumbers> [0..1]
  <Tax> Tax </Tax> [0..*]
  <Splits> Splits </Splits> [0..1]
</...>
```

ServicePartsBase

Name	ServicePartsBase
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
ItemId	Item part number identifier	O	
ItemIdDescription	Item part number detail description	O	

Change Repair Order

Field / Component	Description	R/O	Business Rule
ItemQuantity	Quantity of Part number used on service	O	
GroupNumber	Group Number	O	
PartType	Specifies whether the parts are indicated by manufacturer part code or Part Number	O	

XML Instance Representation

```
<...>
  <ItemId> ItemId </ItemId> [0..1]
  <ItemIdDescription> ItemIdDescription </ItemIdDescription> [0..1]
  <ItemQuantity> ItemQuantity </ItemQuantity> [0..1]
  <GroupNumber> GroupNumber </GroupNumber> [0..1]
  <PartType> PartType </PartType> [0..1]
</...>
```

ServiceTechnician

These field(s) use this type: Technician,Technician,Technician.

Name	ServiceTechnician
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PartyId	Party Identification Number	O	
AlternatePartyIds	Social security number or other legal document Id of technician	O	
TechnicianName	Name of technician assigned to RO	O	
TeamName	Team assigned to Repair Order	O	
TechnicianSkillArea	Type of training required to perform the labor operation	O	
TechnicianSkillLevel	Level of training required to perform the labor operation	O	

Change Repair Order

XML Instance Representation

```
<...>
  <PartyId> PartyId </PartyId> [0..1]
  <AlternatePartyIds> OrganizationalPartyAlternatePartyId </AlternatePartyIds> [0..*]
  <TechnicianName> TechnicianName </TechnicianName> [0..1]
  <TeamName> TeamName </TeamName> [0..1]
  <TechnicianSkillArea> TechnicianSkillArea </TechnicianSkillArea> [0..1]
  <TechnicianSkillLevel> TechnicianSkillLevel </TechnicianSkillLevel> [0..1]
</...>
```

ServiceVehicle

These field(s) use this type: Vehicle.

Name	ServiceVehicle
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
Model	Manufacturer-assigned model code of vehicle - Usually available in the VIN number (use NCIC code)	O	
ModelYear	Vehicle designated model year	O	
ModelDescription	Descriptive vehicle model name	O	
Make	Vehicle make code - Usually available in the VIN number (use NCIC code).	O	
SaleClass	Class of Sale	O	
Condition	Condition of Vehicle - Example: Excellent, Good, Fair, Poor, Unknown	O	
CertifiedPreownedInd	Identifies as a certified Pre-Owned Vehicle	O	
VehicleNote	Any vehicle related notes	O	
VIN	Federally defined 17 position vehicle identification number	O	

Change Repair Order

Field / Component	Description	R/O	Business Rule
DeliveryMileage	Odometer reading of vehicle at time of delivery	O	
VehicleStock	Dealer assigned vehicle stock number	O	
TrimCode	Manufacturer assigned trim code	O	
DoorsQuantity	Number of doors on vehicle	O	
BodyStyle	Manufacturer-assigned vehicle body style	O	
InteriorColor	Vehicle Interior Color(s)	O	
ExteriorColor	Vehicle Exterior Color(s)	O	
TransmissionType	Vehicle Transmission type	O	
OdometerStatus	Status of odometer at trade-in. Example:: Replaced, Tampered, Miles> 90,000, etc.	O	
NonUSVehicleInd	Indicates whether the vehicle was produced for the United States or not	O	
VehicleDemoInd	Indicates whether vehicle was ever a demo	O	
LicenseNumber	State License plate number of vehicle	O	
BrandedInfo	Vehicle Branding Information	O	
RestrictionInd	Indication that vehicle has restrictions on its use	O	
RestrictionDescription	Description of vehicle use restrictions	O	
TelematicsServiceInd	Indication whether Telematics Service Subscription is turned on	O	
Option	Service Vehicle Options	O	(INACTIVE)
TransmissionCode	Transmission Serial Number	O	(INACTIVE)
DeliveryDate	The date of original retail vehicle sale	O	IN YYYY-MM-DD format
EngineNumber	Serial number of the engine if vehicle not made for US sale	O	
IgnitionKeyNumber	Vehicle Ignition Key Number	O	(INACTIVE)

Change Repair Order

Field / Component	Description	R/O	Business Rule
AxleCode	The code on the axle of the vehicle.	O	(INACTIVE)
FleetAccount	Manufacturer defined fleet account number	O	(INACTIVE)
FleetVehicleId	Uniquely identifies the vehicle as part of a fleet company	O	(INACTIVE)
FleetPurchaseOrderNumber	Fleet Purchase Order Number vehicle was purchased under	O	(INACTIVE)
EngineDisplacement	The size of the engine. E.x 3.2L Displacement of engine (i.e., amount of volume in the cylinders)	O	
EngineDescription	The type of the engine. Ex. Hybrid, Electronic, Diesel, Gasoline Description of engine (e.g., 32 valves, hybrid, electronic, diesel, etc.)	O	

XML Instance Representation

```

<...>
  <Model> Model </Model> [0..1]
  <ModelYear> ModelYear </ModelYear> [0..1]
  <ModelDescription> ModelDescription </ModelDescription> [0..1]
  <Make> Make </Make> [0..1]
  <SaleClass> SaleClass </SaleClass> [0..1]
  <Condition> Condition </Condition> [0..1]
  <CertifiedPreownedInd> CertifiedPreownedInd </CertifiedPreownedInd> [0..1]
  <VehicleNote> VehicleNote </VehicleNote> [0..*]
  <VIN> VIN </VIN> [0..1]
  <DeliveryMileage> DeliveryMileage </DeliveryMileage> [0..1]
  <VehicleStock> VehicleStock </VehicleStock> [0..1]
  <TrimCode> TrimCode </TrimCode> [0..1]
  <DoorsQuantity> DoorsQuantity </DoorsQuantity> [0..1]
  <BodyStyle> BodyStyle </BodyStyle> [0..1]
  <InteriorColor> InteriorColor </InteriorColor> [0..*]
  <ExteriorColor> ExteriorColor </ExteriorColor> [0..*]
  <TransmissionType> TransmissionType </TransmissionType> [0..1]
  <OdometerStatus> OdometerStatus </OdometerStatus> [0..1]

```

Change Repair Order

```
<NonUSVehicleInd> NonUSVehicleInd </NonUSVehicleInd> [0..1]
<VehicleDemoInd> VehicleDemoInd </VehicleDemoInd> [0..1]
<LicenseNumber> LicenseNumber </LicenseNumber> [0..1]
<BrandedInfo> BrandedInfo </BrandedInfo> [0..1]
<RestrictionInd> RestrictionInd </RestrictionInd> [0..1]
<RestrictionDescription> RestrictionDescription </RestrictionDescription> [0..1]
<TelematicsServiceInd> TelematicsServiceInd </TelematicsServiceInd> [0..1]
<Option> ServiceOption </Option> [0..*]
<TransmissionCode> TransmissionCode </TransmissionCode> [0..1]
<DeliveryDate> DeliveryDate </DeliveryDate> [0..1]
<EngineNumber> EngineNumber </EngineNumber> [0..1]
<IgnitionKeyNumber> IgnitionKeyNumber </IgnitionKeyNumber> [0..1]
<AxleCode> AxleCode </AxleCode> [0..1]
<FleetAccount> FleetAccount </FleetAccount> [0..1]
<FleetVehicleId> FleetVehicleId </FleetVehicleId> [0..1]
<FleetPurchaseOrderNumber> FleetPurchaseOrderNumber </FleetPurchaseOrderNumber> [0..1]
<EngineDisplacement> EngineDisplacement </EngineDisplacement> [0..1]
<EngineDescription> EngineDescription </EngineDescription> [0..1]
</...>
```

SeverityCode

These field(s) use this type: **SeverityCode**.

Degree of damage

Name	SeverityCode
Abstract	no

XML Instance Representation

```
<...>
  Code
</...>
```

Signature

Change Repair Order

These field(s) use this type: **Signature**.

Name	Signature
Abstract	no

Attributes

Field / Component	Description	R/O	Business Rule
qualifyingAgency		O	

Data Elements and Components

Field / Component	Description	R/O	Business Rule
-------------------	-------------	-----	---------------

XML Instance Representation

```
<...  
qualifyingAgency="Text [0..1]">  
Allow any elements from any namespace (strict validation). [0..1]  
</...>
```

SparePartMileage

These field(s) use this type: **SparePartMileage**.

Mileage at which the failed part was originally installed

Name	SparePartMileage
Abstract	no

XML Instance Representation

```
<...  
uom="MileageMeasure [0..1]">  
  Mileage  
</...>
```

Change Repair Order

SplitPercent

These field(s) use this type: SplitPercent.

Cost Split percentage

Name	SplitPercent
Abstract	no

XML Instance Representation

```
<...>  
  Percent  
</...>
```

Splits

These field(s) use this type: Splits,Splits,Splits,Splits,Splits,Splits,Splits,Splits.

Name	Splits
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
SplitsType	Identifies the type of ServiceComponent	R	
Price	Price and cost information assoicated with Splits	O	
SplitPercent	Cost Split percentage	O	
CustomerPercent	Percentage paid by customer	O	
InternalPercent	Percentage paid by internal (dealer)	O	
CustomerMaximumAmount	Maximum Price paid by customer	O	
InternalMaximumAmount	Maximum Price paid by internal (dealer)	O	

Change Repair Order

Field / Component	Description	R/O	Business Rule
WarrantyPercent	Percentage paid by OEM	O	
PartMaximumAmount	Total Amount of part allowance	O	
PreAdjustmentAmount	Total amount derived before the application of tax. (i.e., Dealership's PartO Adjustment Amount)		

XML Instance Representation

```
<...>
  <SplitsType> SplitsType </SplitsType> [1]
  <Price> Price </Price> [0..1]
  <SplitPercent> SplitPercent </SplitPercent> [0..1]
  <CustomerPercent> CustomerPercent </CustomerPercent> [0..1]
  <InternalPercent> InternalPercent </InternalPercent> [0..1]
  <CustomerMaximumAmount> CustomerMaximumAmount </CustomerMaximumAmount> [0..1]
  <InternalMaximumAmount> InternalMaximumAmount </InternalMaximumAmount> [0..1]
  <WarrantyPercent> WarrantyPercent </WarrantyPercent> [0..1]
  <PartMaximumAmount> PartMaximumAmount </PartMaximumAmount> [0..1]
  <PreAdjustmentAmount> PreAdjustmentAmount </PreAdjustmentAmount> [0..1]
</...>
```

SubDealerNumber

These field(s) use this type: **SubDealerNumber**.

International Dealer code used for distributor reference

Name	SubDealerNumber
Abstract	no

XML Instance Representation

```
<...>
  Id
</...>
```

Change Repair Order

Sublet

These field(s) use this type: Sublet,Sublet,Sublet,Sublet.

Name	Sublet
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
HandlingAmount	Sublet handling charges	O	
Price	Sublet Invoice Price	R	
AuthorizationNumber	Third party purchase order number for work	O	
SubletCode	Type of sublet work	R	If no value entered or defined for the SubletCode, value to be sent should be "N/A"
SubletWorkDescription	Free form text comments relating to sublet	R	
SubletInvoiceNumber	Third party invoice number for work	O	
AppealActionCode	Defines action to be taken on appeal	O	(INACTIVE)
ProviderName	Party that provided the service or vehicle	O	
LaborRate	Dealer Posted Hourly Retail Labor Rate	O	(INACTIVE)
CodesAndComments	Codes and comments related to Sublet	O	(INACTIVE)
Diagnostics	Diagnostics from vehicle service associated with sublet	O	
ServiceParts	Parts used on sublet	O	(INACTIVE)
ServiceCampaign	Service Campaign (Recall) associated with sublet	O	(INACTIVE)

Change Repair Order

Field / Component	Description	R/O	Business Rule
ServiceLabor	Labor used on sublet	O	
Coupon	Coupn used on sublet	O	(INACTIVE)
Technician	Technician associated with sublet	O	(INACTIVE)
ServiceComponents	Service Components associated with sublet(Miscellaneous, GasOilGrease, PaintMaterials, ShopSupplies and Freight	O	(INACTIVE)
Splits	Splits assoicated with sublet	O	(INACTIVE)
Transportation	Transportation associated with sublet	O	(INACTIVE)
Tax	Sublet tax price on associated parts and labor	O	
RentLoaner	Rental or Loaner verhicles associated with Repair Order	O	

XML Instance Representation

```

<...>
  <HandlingAmount> HandlingAmount </HandlingAmount> [0..1]
  <Price> Price </Price> [1]
  <AuthorizationNumber> AuthorizationNumber </AuthorizationNumber> [0..1]
  <SubletCode> SubletCode </SubletCode> [1]
  <SubletWorkDescription> SubletWorkDescription </SubletWorkDescription> [1]
  <SubletInvoiceNumber> SubletInvoiceNumber </SubletInvoiceNumber> [0..1]
  <AppealActionCode> AppealActionCode </AppealActionCode> [0..1]
  <ProviderName> ProviderName </ProviderName> [0..1]
  <LaborRate> LaborRate </LaborRate> [0..1]
  <CodesAndComments> CodesAndCommentsExpanded </CodesAndComments> [0..1]
  <Diagnostics> Diagnostics </Diagnostics> [0..*]
  <ServiceParts> ServiceParts </ServiceParts> [0..*]
  <ServiceCampaign> ServiceCampaign </ServiceCampaign> [0..*]
  <ServiceLabor> ServiceLabor </ServiceLabor> [0..*]
  <Coupon> Coupon </Coupon> [0..*]
  <Technician> ServiceTechnician </Technician> [0..*]

```

Change Repair Order

```
<ServiceComponents> ServiceComponents </ServiceComponents> [0..*]  
<Splits> Splits </Splits> [0..1]  
<Transportation> Transportation </Transportation> [0..*]  
<Tax> Tax </Tax> [0..*]  
<RentLoaner> RentLoaner </RentLoaner> [0..*]  
</...>
```

SubletLaborCostPercent

These field(s) use this type: **SubletLaborCostPercent**.

Percentage of sublet labor cost to be paid by manufacturer as goodwill for this job.

Name	SubletLaborCostPercent
Abstract	no

XML Instance Representation

```
<...>  
  Percent  
</...>
```

SubletPartsCostPercent

These field(s) use this type: **SubletPartsCostPercent**.

Percentage of sublet parts cost to be paid by manufacturer as goodwill for this job.

Name	SubletPartsCostPercent
Abstract	no

XML Instance Representation

```
<...>  
  Percent  
</...>
```

Change Repair Order

SubletWorkDescription

These field(s) use this type: SubletWorkDescription.

Free form text comments relating to sublet

Name	SubletWorkDescription
Abstract	no

XML Instance Representation

```
<...  
  language="Language [0..1]">  
    Description  
</...>
```

SymptomCodeDescription

These field(s) use this type: SymptomCodeDescription.

Description of symptom code

Name	SymptomCodeDescription
Abstract	no

XML Instance Representation

```
<...  
  language="Language [0..1]">  
    Description  
</...>
```

Tax

These field(s) use this type: Tax,Tax,Tax,Tax,Tax,Tax,Tax,Tax,Tax.

Name	Tax
-------------	-----

Change Repair Order

Abstract no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
TaxType	Identifies the type tax.	R	
TaxDescription	Free form text description of tax amount.	O	
TaxAmount	Actual amount of tax paid.	O	
UnitSalesTaxAmount	Unit amount of sales tax.	O	
TaxRate	Tax Percentage Rate	O	
TotalTaxableAmount	Total taxable price	O	
NonTaxableAmount	Total non-taxable price	O	
TaxTypeId	Tax type identification	O	Values: CS – City, CP – County, ST – State, OT – Other, EX – Excise, VAT – VAT, PST - Provincial Sales Tax, RT – Rental, GST - Goods and Services Tax, HST - Harmonized Tax, ART - Air Tax, QST - Quebec Sales Tax
TaxabilityInd	Determines whether the dealer wants to claim tax on the cost.	O	Values: 1 - Yes, 0 - No

XML Instance Representation

```
<...>
  <TaxType> TaxType </TaxType> [1]
  <TaxDescription> TaxDescription </TaxDescription> [0..1]
  <TaxAmount> TaxAmount </TaxAmount> [0..1]
  <UnitSalesTaxAmount> UnitSalesTaxAmount </UnitSalesTaxAmount> [0..1]
  <TaxRate> TaxRate </TaxRate> [0..1]
  <TotalTaxableAmount> TotalTaxableAmount </TotalTaxableAmount> [0..1]
  <NonTaxableAmount> NonTaxableAmount </NonTaxableAmount> [0..1]
  <TaxTypeId> TaxTypeId </TaxTypeId> [0..1]
```

Change Repair Order

```
<TaxabilityInd> TaxabilityInd </TaxabilityInd> [0..1]
</...>
```

TaxableAmount

These field(s) use this type: **TaxableAmount.**

Total Taxable Price

Name	TaxableAmount
Abstract	no

XML Instance Representation

```
<...
currency="Currency [1]">
  Amount
</...>
```

TaxAmount

These field(s) use this type: **TaxAmount.**

Actual amount of tax paid.

Name	TaxAmount
Abstract	no

XML Instance Representation

```
<...
currency="Currency [1]">
  Amount
</...>
```

TaxDescription

These field(s) use this type: **TaxDescription.**

Change Repair Order

Free form text description of tax amount.

Name	TaxDescription
Abstract	no

XML Instance Representation

```
<...  
language="Language [0..1]">  
  Description  
</...>
```

TaxRate

These field(s) use this type: **TaxRate**.

Tax Percentage rate.

Name	TaxRate
Abstract	no

XML Instance Representation

```
<...>  
  Percent  
</...>
```

TechnicianBase

Name	TechnicianBase
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PartyId	Party Identification Number	O	

Change Repair Order

Field / Component	Description	R/O	Business Rule
AlternatePartyIds	Social security number or other legal document Id of technician	O	
TechnicianName	Name of technician assigned to RO	O	
TeamName	Team assigned to Repair Order	O	
TechnicianSkillArea	Type of training required to perform the labor operation	O	
TechnicianSkillLevel	Level of training required to perform the labor operation	O	

XML Instance Representation

```
<...>
  <PartyId> PartyId </PartyId> [0..1]
  <AlternatePartyIds> OrganizationalPartyAlternatePartyId </AlternatePartyIds> [0..*]
  <TechnicianName> TechnicianName </TechnicianName> [0..1]
  <TeamName> TeamName </TeamName> [0..1]
  <TechnicianSkillArea> TechnicianSkillArea </TechnicianSkillArea> [0..1]
  <TechnicianSkillLevel> TechnicianSkillLevel </TechnicianSkillLevel> [0..1]
</...>
```

Term

These field(s) use this type: **Term**.

Number of months of contract term

Name	Term
Abstract	no

Attributes

Field / Component	Description	R/O	Business Rule
length		R	

XML Instance Representation

Change Repair Order

```
<...  
length="TermLength [0..1]">  
  Count  
</...>
```

TireTreadDepth

These field(s) use this type: **TireTreadDepth**.

Depth of vehicle's tire tread

Name	TireTreadDepth
Abstract	no

XML Instance Representation

```
<...>  
  Measurement  
</...>
```

TotalAmount

These field(s) use this type: **TotalAmount**.

Total price (cost + markup)

Name	TotalAmount
Abstract	no

XML Instance Representation

```
<...  
currency="Currency [1]">  
  Amount  
</...>
```

TotalContractAmount

Change Repair Order

These field(s) use this type: **TotalContractAmount**.

Total amount of the contract.

Name	TotalContractAmount
Abstract	no

XML Instance Representation

```
<...  
  currency="Currency [1]">  
    Amount  
</...>
```

TotalCost

These field(s) use this type: **TotalCost**.

Value at unit cost times quantity

Name	TotalCost
Abstract	no

XML Instance Representation

```
<...  
  currency="Currency [1]">  
    Amount  
</...>
```

TotalTaxableAmount

These field(s) use this type: **TotalTaxableAmount**.

Total taxable price.

Name	TotalTaxableAmount
Abstract	no

Change Repair Order

XML Instance Representation

```
<...  
currency="Currency [1]">  
  Amount  
</...>
```

TowingAllowance

These field(s) use this type: **TowingAllowance.**

towing aloowance

Name	TowingAllowance
Abstract	no

XML Instance Representation

```
<...  
currency="Currency [1]">  
  Amount  
</...>
```

Transportation

These field(s) use this type: **Transportation,Transportation,Transportation,Transportation.**

Name	Transportation
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
TransportationCarrier	Name of transportation carrier	O	
ReceiptNumber	Numeric identifier found on the carrier's receipt when a vehicle is delivered to the dealer	O	

Change Repair Order

Field / Component	Description	R/O	Business Rule
VehicleArrivalDate	Date vehicle is delivered to the dealer.	O	In YYYY-MM-DD format.
NotificationDate	Date when dealer contacts OEM to file a transportation claim.	O	In YYYY-MM-DD format
NotificationReason	Indicates why notification to OEM came after the standard 2-day window after the arrival date. Examples: "Delayed inspection": "Concealed damage"	O	
RegisteredMailReceiptNumber	Number identifying the document sent by the dealership to the carrier	O	
MajorDamageCode	Identifies if the vehicle had major damage Examples: Y=Yes, N=No, B=Old Damage	O	
Damage	represents information about damage related to the vehicle	O	

XML Instance Representation

```
<...>
  <TransportationCarrier> TransportationCarrier </TransportationCarrier> [0..1]
  <ReceiptNumber> ReceiptNumber </ReceiptNumber> [0..1]
  <VehicleArrivalDate> VehicleArrivalDate </VehicleArrivalDate> [0..1]
  <NotificationDate> NotificationDate </NotificationDate> [0..1]
  <NotificationReason> NotificationReason </NotificationReason> [0..1]
  <RegisteredMailReceiptNumber> RegisteredMailReceiptNumber </RegisteredMailReceiptNumber> [0..1]
  <MajorDamageCode> MajorDamageCode </MajorDamageCode> [0..1]
  <Damage> Damage </Damage> [0..*]
</...>
```

UnitCost

These field(s) use this type: **UnitCost**.

Cost at inventory value

Name	UnitCost
Abstract	no

Change Repair Order

XML Instance Representation

```
<...  
currency="Currency [1]">  
  Amount  
</...>
```

UnitPrice

These field(s) use this type: **UnitPrice.**

UnitPrice

Name	UnitPrice
Abstract	no

XML Instance Representation

```
<...  
currency="Currency [1]">  
  Amount  
</...>
```

UnitSalesTaxAmount

These field(s) use this type: **UnitSalesTaxAmount.**

Unit amount of sales tax.

Name	UnitSalesTaxAmount
Abstract	no

XML Instance Representation

```
<...  
currency="Currency [1]">  
  Amount  
</...>
```

Change Repair Order

Vehicle

Name	Vehicle
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
Model	Manufacturer-assigned model code of vehicle - Usually available in the VIN number (use NCIC code)	O	
ModelYear	Vehicle designated model year	O	
ModelDescription	Descriptive vehicle model name	O	
Make	Vehicle make code - Usually available in the VIN number (use NCIC code).	O	

XML Instance Representation

```
<...>
  <Model> Model </Model> [0..1]
  <ModelYear> ModelYear </ModelYear> [0..1]
  <ModelDescription> ModelDescription </ModelDescription> [0..1]
  <Make> Make </Make> [0..1]
</...>
```

VehicleBase

Name	VehicleBase
Abstract	no

Data Elements and Components

Change Repair Order

Field / Component	Description	R/O	Business Rule
Model	Manufacturer-assigned model code of vehicle - Usually available in the VIN number (use NCIC code)	O	
ModelYear	Vehicle designated model year	O	
ModelDescription	Descriptive vehicle model name	O	
Make	Vehicle make code - Usually available in the VIN number (use NCIC code).	O	
SaleClass	Class of Sale	O	
Condition	Condition of Vehicle - Example: Excellent, Good, Fair, Poor, Unknown	O	
CertifiedPreownedInd	Identifies as a certified Pre-Owned Vehicle	O	
VehicleNote	Any vehicle related notes	O	
VIN	Federally defined 17 position vehicle identification number	O	
DeliveryMileage	Odometer reading of vehicle at time of delivery	O	
VehicleStock	Dealer assigned vehicle stock number	O	
TrimCode	Manufacturer assigned trim code	O	
DoorsQuantity	Number of doors on vehicle	O	
BodyStyle	Manufacturer-assigned vehicle body style	O	
InteriorColor	Vehicle Interior Color(s)	O	
ExteriorColor	Vehicle Exterior Color(s)	O	
TransmissionType	Vehicle Transmission type	O	
OdometerStatus	Status of odometer at trade-in. Example:: Replaced, Tampered, Miles> 90,000, etc.	O	
NonUSVehicleInd	Indicates whether the vehicle was produced for the United States or not	O	
VehicleDemoInd	Indicates whether vehicle was ever a demo	O	
LicenseNumber	State License plate number of vehicle	O	

Change Repair Order

Field / Component	Description	R/O	Business Rule
BrandedInfo	Vehicle Branding Information	O	
RestrictionInd	Indication that vehicle has restrictions on its use	O	
RestrictionDescription	Description of vehicle use restrictions	O	
TelematicsServiceInd	Indication whether Telematics Service Subscription is turned on	O	

XML Instance Representation

```
<...>
  <Model> Model </Model> [0..1]
  <ModelYear> ModelYear </ModelYear> [0..1]
  <ModelDescription> ModelDescription </ModelDescription> [0..1]
  <Make> Make </Make> [0..1]
  <SaleClass> SaleClass </SaleClass> [0..1]
  <Condition> Condition </Condition> [0..1]
  <CertifiedPreownedInd> CertifiedPreownedInd </CertifiedPreownedInd> [0..1]
  <VehicleNote> VehicleNote </VehicleNote> [0..*]
  <VIN> VIN </VIN> [0..1]
  <DeliveryMileage> DeliveryMileage </DeliveryMileage> [0..1]
  <VehicleStock> VehicleStock </VehicleStock> [0..1]
  <TrimCode> TrimCode </TrimCode> [0..1]
  <DoorsQuantity> DoorsQuantity </DoorsQuantity> [0..1]
  <BodyStyle> BodyStyle </BodyStyle> [0..1]
  <InteriorColor> InteriorColor </InteriorColor> [0..*]
  <ExteriorColor> ExteriorColor </ExteriorColor> [0..*]
  <TransmissionType> TransmissionType </TransmissionType> [0..1]
  <OdometerStatus> OdometerStatus </OdometerStatus> [0..1]
  <NonUSVehicleInd> NonUSVehicleInd </NonUSVehicleInd> [0..1]
  <VehicleDemoInd> VehicleDemoInd </VehicleDemoInd> [0..1]
  <LicenseNumber> LicenseNumber </LicenseNumber> [0..1]
  <BrandedInfo> BrandedInfo </BrandedInfo> [0..1]
  <RestrictionInd> RestrictionInd </RestrictionInd> [0..1]
  <RestrictionDescription> RestrictionDescription </RestrictionDescription> [0..1]
  <TelematicsServiceInd> TelematicsServiceInd </TelematicsServiceInd> [0..1]
</...>
```

Change Repair Order

VehicleConcernQuestionAnswer

These field(s) use this type: VehicleConcernQuestionAnswer.

Name	VehicleConcernQuestionAnswer
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
ConcernQuestion	Service concern question.	O	
ConcernAnswer	Service concern answer	O	

XML Instance Representation

```
<...>  
  <ConcernQuestion> ConcernQuestion </ConcernQuestion> [0..1]  
  <ConcernAnswer> ConcernAnswer </ConcernAnswer> [0..1]  
</...>
```

Verb

These field(s) use this type: Verb.

Name	Verb
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
-------------------	-------------	-----	---------------

XML Instance Representation

```
<.../>
```

Change Repair Order

Warranty

Name	Warranty
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
WarrantyStartMileage	Mileage at start date of vehicle warranty	O	
WarrantyEndMileage	Mileage limit for vehicle warranty coverage for warranty currently in force at time of repair	O	(INACTIVE)
WarrantyStartDate	Start date of vehicle warranty	O	In YYYY-MM-DD format
WarrantyExpirationDate	Last date of vehicle warranty coverage for warranty currently in force at time of repair	O	(INACTIVE)
RoadsideAssistanceInd	Indicates whether coverage includes roadside assistance	O	(INACTIVE)
MasterShieldInd	Indicates if vehicle is covered by the Master Shield Extended warranty	O	(INACTIVE)
WarrantyTransferInd	Indicates if warranty is transferable	O	(INACTIVE)
WarrantyTypeDescription	Description of type of warranty Example: Basic /Powertrain, etc.	O	(INACTIVE)
WarrantyStatus	Whether warranty is still applicable	O	(INACTIVE)
WarrantyRemaining	Defines how much warranty is left, either in time or miles	O	(INACTIVE)
WarrantyNotes	Any Warranty related Notes	O	(INACTIVE)

XML Instance Representation

<...>

Change Repair Order

```
<WarrantyStartMileage> WarrantyStartMileage </WarrantyStartMileage> [0..1]
<WarrantyEndMileage> WarrantyEndMileage </WarrantyEndMileage> [0..1]
<WarrantyStartDate> WarrantyStartDate </WarrantyStartDate> [0..1]
<WarrantyExpirationDate> WarrantyExpirationDate </WarrantyExpirationDate> [0..1]
<RoadsideAssistanceInd> RoadsideAssistanceInd </RoadsideAssistanceInd> [0..1]
<MasterShieldInd> MasterShieldInd </MasterShieldInd> [0..1]
<WarrantyTransferInd> WarrantyTransferInd </WarrantyTransferInd> [0..1]
<WarrantyTypeDescription> WarrantyTypeDescription </WarrantyTypeDescription> [0..1]
<WarrantyStatus> WarrantyStatus </WarrantyStatus> [0..1]
<WarrantyRemaining> WarrantyRemaining </WarrantyRemaining> [0..1]
<WarrantyNotes> WarrantyNotes </WarrantyNotes> [0..1]
</...>
```

WarrantyAdditional

These field(s) use this type: **Warranty**.

Name	WarrantyAdditional
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
WarrantyStartMileage	Mileage at start date of vehicle warranty	O	
WarrantyEndMileage	Mileage limit for vehicle warranty coverage for warranty currently in force at time of repair	O	(INACTIVE)
WarrantyStartDate	Start date of vehicle warranty	O	In YYYY-MM-DD format
WarrantyExpirationDate	Last date of vehicle warranty coverage for warranty currently in force at time of repair	O	(INACTIVE)
RoadsideAssistanceInd	Indicates whether coverage includes roadside assistance	O	(INACTIVE)
MasterShieldInd	Indicates if vehicle is covered by the Master Shield Extended warranty	O	(INACTIVE)

Change Repair Order

Field / Component	Description	R/O	Business Rule
WarrantyTransferInd	Indicates if warranty is transferable	O	(INACTIVE)
WarrantyTypeDescription	Description of type of warranty Example: Basic /Powertrain, etc.	O	(INACTIVE)
WarrantyStatus	Whether warranty is still applicable	O	(INACTIVE)
WarrantyRemaining	Defines how much warranty is left, either in time or miles	O	(INACTIVE)
WarrantyNotes	Any Warranty related Notes	O	(INACTIVE)
ReceiptNumber	Numeric identifier found on the carrier's receipt when a vehicle is delivered to the dealer	O	
DelayedInspectionCode	Explains why a vehicle cannot be initially inspected once it arrives at a dealer (ie: dealer closed, no one around to sign for vehicle)	O	
VehicleArrivalDate	The date the original retail vehicle is delivered to a dealer.	O	

XML Instance Representation

```

<...>
  <WarrantyStartMileage> WarrantyStartMileage </WarrantyStartMileage> [0..1]
  <WarrantyEndMileage> WarrantyEndMileage </WarrantyEndMileage> [0..1]
  <WarrantyStartDate> WarrantyStartDate </WarrantyStartDate> [0..1]
  <WarrantyExpirationDate> WarrantyExpirationDate </WarrantyExpirationDate> [0..1]
  <RoadsideAssistanceInd> RoadsideAssistanceInd </RoadsideAssistanceInd> [0..1]
  <MasterShieldInd> MasterShieldInd </MasterShieldInd> [0..1]
  <WarrantyTransferInd> WarrantyTransferInd </WarrantyTransferInd> [0..1]
  <WarrantyTypeDescription> WarrantyTypeDescription </WarrantyTypeDescription> [0..1]
  <WarrantyStatus> WarrantyStatus </WarrantyStatus> [0..1]
  <WarrantyRemaining> WarrantyRemaining </WarrantyRemaining> [0..1]
  <WarrantyNotes> WarrantyNotes </WarrantyNotes> [0..1]
  <ReceiptNumber> ReceiptNumber </ReceiptNumber> [0..1]
  <DelayedInspectionCode> DelayedInspectionCode </DelayedInspectionCode> [0..1]
  <VehicleArrivalDate> VehicleArrivalDate </VehicleArrivalDate> [0..1]
</...>

```

Change Repair Order

WarrantyBase

Name	WarrantyBase
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
WarrantyStartMileage	Mileage at start date of vehicle warranty	O	
WarrantyEndMileage	Mileage limit for vehicle warranty coverage for warranty currently in force at time of repair	O	(INACTIVE)
WarrantyStartDate	Start date of vehicle warranty	O	In YYYY-MM-DD format
WarrantyExpirationDate	Last date of vehicle warranty coverage for warranty currently in force at time of repair	O	(INACTIVE)
RoadsideAssistanceInd	Indicates whether coverage includes roadside assistance	O	(INACTIVE)
MasterShieldInd	Indicates if vehicle is covered by the Master Shield Extended warranty	O	(INACTIVE)
WarrantyTransferInd	Indicates if warranty is transferable	O	(INACTIVE)
WarrantyTypeDescription	Description of type of warranty Example: Basic /Powertrain, etc.	O	(INACTIVE)
WarrantyStatus	Whether warranty is still applicable	O	(INACTIVE)
WarrantyRemaining	Defines how much warranty is left, either in time or miles	O	(INACTIVE)
WarrantyNotes	Any Warranty related Notes	O	(INACTIVE)

XML Instance Representation

<...>

Change Repair Order

```
<WarrantyStartMileage> WarrantyStartMileage </WarrantyStartMileage> [0..1]
<WarrantyEndMileage> WarrantyEndMileage </WarrantyEndMileage> [0..1]
<WarrantyStartDate> WarrantyStartDate </WarrantyStartDate> [0..1]
<WarrantyExpirationDate> WarrantyExpirationDate </WarrantyExpirationDate> [0..1]
<RoadsideAssistanceInd> RoadsideAssistanceInd </RoadsideAssistanceInd> [0..1]
<MasterShieldInd> MasterShieldInd </MasterShieldInd> [0..1]
<WarrantyTransferInd> WarrantyTransferInd </WarrantyTransferInd> [0..1]
<WarrantyTypeDescription> WarrantyTypeDescription </WarrantyTypeDescription> [0..1]
<WarrantyStatus> WarrantyStatus </WarrantyStatus> [0..1]
<WarrantyRemaining> WarrantyRemaining </WarrantyRemaining> [0..1]
<WarrantyNotes> WarrantyNotes </WarrantyNotes> [0..1]
</...>
```

WarrantyClaim

These field(s) use this type: WarrantyClaim, WarrantyClaim.

Name	WarrantyClaim
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
ClaimNumber	Identifier of claim entered by dealer	O	
ClaimType	Identifier of the type of claim	O	
OEMClaimNumber	Assigned by OEM at time of claim processing	O	
ExternalReferenceNumber	Secondary identifying scheme that is meaningful to claimant	O	
FreightClaimNumber	The claim number of the freight claim associated with the current warranty claim	O	
AccessoryClaimType	Manufacturer identifier of the type of accessory claim	O	
DefectCode	Manufacturer assigned code that defines failed component that caused the claim	O	

Change Repair Order

Field / Component	Description	R/O	Business Rule
ItemId	Primary part responsible for vehicle failure	O	
PartType	Specifies whether the parts are indicated by manufacturer part code or Part Number	O	
SparePartDate	The date the part was purchased	O	
SparePartInvoiceNumber	The invoice number on which the part was sold over the counter	O	
SparePartMileage	Mileage at which the failed part was originally installed	O	
WarrantyAppealInd	Warranty Appeal indicator	O	
ServiceCampaign	Service Campaign information related to vehicle service	O	
CodesAndComments	Codes and Comments related to vehicle service	O	
PartDealerNumer	Identification number for party that installed failed part	O	
PartDealerName	Name of the dealer/business that installed failed part	O	(INACTIVE)
DealerInstallationInd	Indicates whether or not the dealership installed the part	O	Values: 1 - Yes, 0 - No
BatteryProration	Denotes life of the new battery in months	O	
OEMVehicleInd	Indicates whether or not the part was installed on an OEM vehicle	O	Values: 1 - Yes, 0 - No
WarrantyProgramCode	Code for manufacturer Warranty special programs	O	
ClaimCategory	Secondary classification of claim reimbursement (e.g., Manufacturer Warranty, Service Contract, Transportation, Chargeback, Resubmission, etc.)	O	(INACTIVE)
AuthorizationNumber	Assigned authorization number for claim	O	
AuthorizationCode	Assigned authorization code or additional authorization number for claim	O	
AuthorizationPayMaximum	Maximum Price covered by Authorization	O	(INACTIVE)
AuthorizationPayPercent	Payment Percentage covered by Authorization	O	(INACTIVE)

Change Repair Order

Field / Component	Description	R/O	Business Rule
AuthorizationPayType	Payment Type covered by Authorization	O	(INACTIVE)
Price	Prices related to Warranty Claim	O	
Tax	Taxes related to Warranty Claim	O	
AppealReasonCode	Code defining reason for appeal	O	(INACTIVE)
ManualReviewCode	Code to signal requirement for manual review by claim analyst	O	(INACTIVE)
SubDealerNumber	International Dealer code for whom Distributors enter claims	O	
DataCollectionStatus	Indicates status of data for the record it appears on	O	(INACTIVE)
ClaimSubmissionCount	Tracks number of times claim has been submitted to manufacturer (i.e., Value will be 0 or null if claim is not ready to be sent	O	(INACTIVE)
OriginalRepairOrderNumber	References Original Repair Order number	O	(INACTIVE)
Splits	Warranty Claim Splits total	O	
RentLoaner	Rent Loaner related to Warranty Claim	O	
ServiceComponents	Service Components related to Warranty Claim	O	(INACTIVE)
Transportation	Transportation related to Warranty Claim	O	(INACTIVE)
Sublet	Sublet related to Warranty Claim	O	
Job	Jobs related to Warranty Claim	O	You can use WarrantyClaim on Job or Job on WarrantyClaim, but as a Best Practice you should not use both on the same RepairOrder.
JobReferback	Job Referback related to Warranty Claim	O	(INACTIVE)
WarrantyClaimDeductible	Deductible information associated with Warranty Claim	O	

Change Repair Order

Field / Component	Description	R/O	Business Rule
PriorClaimNumber	Original claim number for a claim that being continued. In other words, a claim was entered and paid, but something was forgotten. The dealer can then continue the claim using a different claim number and this is the original claim number.	O	(INACTIVE)
ClaimContinuationCode	Code describing why claim is continued. (i.e., N = Not a continuation claim P = Parts continuation claim R = Reman Continuation claim O = Other continuation claim)	O	(INACTIVE)
TreadActInd	Transportation Recall Enhancement, Accountability, and Documentation (TREAD) Act (i.e., - Indicates if there has been fire damage)	O	(INACTIVE)
LaborOperationId	Labor Operation Id that caused this claim.	O	

XML Instance Representation

```

<...>
  <ClaimNumber> ClaimNumber </ClaimNumber> [0..1]
  <ClaimType> ClaimType </ClaimType> [0..1]
  <OEMClaimNumber> OEMClaimNumber </OEMClaimNumber> [0..1]
  <ExternalReferenceNumber> ExternalReferenceNumber </ExternalReferenceNumber> [0..1]
  <FreightClaimNumber> FreightClaimNumber </FreightClaimNumber> [0..1]
  <AccessoryClaimType> AccessoryClaimType </AccessoryClaimType> [0..1]
  <DefectCode> DefectCode </DefectCode> [0..1]
  <ItemId> ItemId </ItemId> [0..1]
  <PartType> PartType </PartType> [0..1]
  <SparePartDate> SparePartDate </SparePartDate> [0..1]
  <SparePartInvoiceNumber> SparePartInvoiceNumber </SparePartInvoiceNumber> [0..1]
  <SparePartMileage> SparePartMileage </SparePartMileage> [0..1]
  <WarrantyAppealInd> WarrantyAppealInd </WarrantyAppealInd> [0..1]
  <ServiceCampaign> ServiceCampaignExtended </ServiceCampaign> [0..*]
  <CodesAndComments> CodesAndComments </CodesAndComments> [0..1]
  <PartDealerNumer> PartDealerNumer </PartDealerNumer> [0..1]
  <PartDealerName> PartDealerName </PartDealerName> [0..1]
  <DealerInstallationInd> DealerInstallationInd </DealerInstallationInd> [0..1]
  <BatteryProration> BatteryProration </BatteryProration> [0..1]
  <OEMVehicleInd> OEMVehicleInd </OEMVehicleInd> [0..1]

```

Change Repair Order

```
<WarrantyProgramCode> WarrantyProgramCode </WarrantyProgramCode> [0..1]
<ClaimCategory> ClaimCategory </ClaimCategory> [0..1]
<AuthorizationNumber> AuthorizationNumber </AuthorizationNumber> [0..1]
<AuthorizationCode> AuthorizationCode </AuthorizationCode> [0..1]
<AuthorizationPayMaximum> AuthorizationPayMaximum </AuthorizationPayMaximum> [0..1]
<AuthorizationPayPercent> AuthorizationPayPercent </AuthorizationPayPercent> [0..1]
<AuthorizationPayType> AuthorizationPayType </AuthorizationPayType> [0..1]
<Price> Price </Price> [0..*]
<Tax> Tax </Tax> [0..*]
<AppealReasonCode> AppealReasonCode </AppealReasonCode> [0..1]
<ManualReviewCode> ManualReviewCode </ManualReviewCode> [0..1]
<SubDealerNumber> SubDealerNumber </SubDealerNumber> [0..1]
<DataCollectionStatus> DataCollectionStatus </DataCollectionStatus> [0..1]
<ClaimSubmissionCount> ClaimSubmissionCount </ClaimSubmissionCount> [0..1]
<OriginalRepairOrderNumber> OriginalRepairOrderNumber </OriginalRepairOrderNumber> [0..1]
<Splits> Splits </Splits> [0..1]
<RentLoaner> RentLoaner </RentLoaner> [0..*]
<ServiceComponents> ServiceComponents </ServiceComponents> [0..*]
<Transportation> Transportation </Transportation> [0..*]
<Sublet> Sublet </Sublet> [0..*]
<Job> Job </Job> [0..*]
<JobReferback> JobReferback </JobReferback> [0..*]
<WarrantyClaimDeductible> WarrantyClaimDeductible </WarrantyClaimDeductible> [0..*]
<PriorClaimNumber> PriorClaimNumber </PriorClaimNumber> [0..1]
<ClaimContinuationCode> ClaimContinuationCode </ClaimContinuationCode> [0..1]
<TreadActInd> TreadActInd </TreadActInd> [0..1]
<LaborOperationId> LaborOperationId </LaborOperationId> [0..1]
</...>
```

WarrantyClaimBase

Name	WarrantyClaimBase
Abstract	no

Data Elements and Components

Change Repair Order

Field / Component	Description	R/O	Business Rule
ClaimNumber	Identifier of claim entered by dealer	O	
ClaimType	Identifier of the type of claim	O	
OEMClaimNumber	Assigned by OEM at time of claim processing	O	
ExternalReferenceNumber	Secondary identifying scheme that is meaningful to claimant	O	

XML Instance Representation

```
<...>
  <ClaimNumber> ClaimNumber </ClaimNumber> [0..1]
  <ClaimType> ClaimType </ClaimType> [0..1]
  <OEMClaimNumber> OEMClaimNumber </OEMClaimNumber> [0..1]
  <ExternalReferenceNumber> ExternalReferenceNumber </ExternalReferenceNumber> [0..1]
</...>
```

WarrantyClaimDeductible

These field(s) use this type: WarrantyClaimDeductible.

Name	WarrantyClaimDeductible
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
DeductibleType	The type of customer deductible. Eg: Service Contract	O	
DeductibleAmount	The Customer Deductible and/or Co/pay amount factored out of the total Claim Amount. Eg:\$50.00	O	
Tax	Amount of tax on Warranty Claim for Claim and Dealer	O	
DeductibleWaiverInd	Indicates that the dealer waived the deductible or changed the deductible from an amount greater than zero to zero.	O	Values: 1 - Yes, 0 - No

Change Repair Order

XML Instance Representation

```
<...>
  <DeductibleType> DeductibleType </DeductibleType> [0..1]
  <DeductibleAmount> DeductibleAmount </DeductibleAmount> [0..1]
  <Tax> Tax </Tax> [0..*]
  <DeductibleWaiverInd> DeductibleWaiverInd </DeductibleWaiverInd> [0..1]
</...>
```

WarrantyClaimHistory

Name	WarrantyClaimHistory
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
ClaimNumber	Identifier of claim entered by dealer	O	
ClaimType	Identifier of the type of claim	O	
OEMClaimNumber	Assigned by OEM at time of claim processing	O	
ExternalReferenceNumber	Secondary identifying scheme that is meaningful to claimant	O	
FreightClaimNumber	The claim number of the freight claim associated with the current warranty claim	O	
AccessoryClaimType	Manufacturer identifier of the type of accessory claim	O	
DefectCode	Manufacturer assigned code that defines failed component that caused the claim	O	
ItemId	Primary part responsible for vehicle failure	O	
PartType	Specifies whether the parts are indicated by manufacturer part code or Part Number	O	
SparePartDate	The date the part was purchased	O	

Change Repair Order

Field / Component	Description	R/O	Business Rule
SparePartInvoiceNumber	The invoice number on which the part was sold over the counter	O	
SparePartMileage	Mileage at which the failed part was originally installed	O	
WarrantyAppealInd	Warranty Appeal indicator	O	
ServiceCampaign	Service Campaign information related to vehicle service	O	
CodesAndComments	Codes and Comments related to vehicle service	O	

XML Instance Representation

```
<...>
  <ClaimNumber> ClaimNumber </ClaimNumber> [0..1]
  <ClaimType> ClaimType </ClaimType> [0..1]
  <OEMClaimNumber> OEMClaimNumber </OEMClaimNumber> [0..1]
  <ExternalReferenceNumber> ExternalReferenceNumber </ExternalReferenceNumber> [0..1]
  <FreightClaimNumber> FreightClaimNumber </FreightClaimNumber> [0..1]
  <AccessoryClaimType> AccessoryClaimType </AccessoryClaimType> [0..1]
  <DefectCode> DefectCode </DefectCode> [0..1]
  <ItemId> ItemId </ItemId> [0..1]
  <PartType> PartType </PartType> [0..1]
  <SparePartDate> SparePartDate </SparePartDate> [0..1]
  <SparePartInvoiceNumber> SparePartInvoiceNumber </SparePartInvoiceNumber> [0..1]
  <SparePartMileage> SparePartMileage </SparePartMileage> [0..1]
  <WarrantyAppealInd> WarrantyAppealInd </WarrantyAppealInd> [0..1]
  <ServiceCampaign> ServiceCampaignExtended </ServiceCampaign> [0..*]
  <CodesAndComments> CodesAndComments </CodesAndComments> [0..1]
</...>
```

WarrantyEndMileage

These field(s) use this type: **WarrantyEndMileage**.

Mileage limit for vehicle warranty coverage for warranty currently in force at time of repair

Name	WarrantyEndMileage
------	--------------------

Change Repair Order

Abstract	no
-----------------	-----------

XML Instance Representation

```
<...  
uom="MileageMeasure [0..1]">  
  Mileage  
</...>
```

WarrantyPercent

These field(s) use this type: WarrantyPercent.

Percentage paid by OEM

Name	WarrantyPercent
Abstract	no

XML Instance Representation

```
<...>  
  Percent  
</...>
```

WarrantyStartMileage

These field(s) use this type: WarrantyStartMileage.

Mileage at start Date of vehicle warranty

Name	WarrantyStartMileage
Abstract	no

XML Instance Representation

```
<...  
uom="MileageMeasure [0..1]">  
  Mileage
```

Change Repair Order

```
</...>
```

WarrantyTypeDescription

These field(s) use this type: WarrantyTypeDescription.

A code used to classify into coverage categories

Name	WarrantyTypeDescription
Abstract	no

XML Instance Representation

```
<...  
language="Language [0..1]">  
  Description  
</...>
```

AccessoryClaimType

These field(s) use this type: AccessoryClaimType.

Manufacturer identifier of the type of accessory claim

Name	AccessoryClaimType
------	--------------------

*Base XSD Type: string

ACCompressorSerialNumber

These field(s) use this type: ACCompressorSerialNumber.

Serial number of the AC Compressor

Name	ACCompressorSerialNumber
------	--------------------------

*Base XSD Type: string

Change Repair Order

AdditionalHoursLaborComment

These field(s) use this type: AdditionalHoursLaborComment.

Explanation for the need for the additional labor hours

Name	AdditionalHoursLaborComment
------	-----------------------------

*Base XSD Type: string

AddOnRepairInd

These field(s) use this type: AddOnRepairInd.

AddOnRepairInd

Name	AddOnRepairInd
------	----------------

*Base XSD Type: string

Code Value	Description
------------	-------------

0	
---	--

1	
---	--

AddressLine

These field(s) use this type: AddressLine.

Indicates the multiple lines of an address. The first line is typically the street name and number.

Name	AddressLine
------	-------------

*Base XSD Type: string

AddressQualifier

Address Qualifier

Change Repair Order

Name	AddressQualifier
*Base XSD Type: string	
Code Value	Description
WorkAddress	Work Address
SeasonalAddress	Seasonal Address
DeliveryAddress	Delivery Address
HomeAddress	Home Address
PreviousAddress	Previous Address
Other	Other
Garage	Garage
Billing	Billing
NonSigningSpouseAddress	Non Signing Spouse Address
N/A	Not Applicable

AppealActionCode

These field(s) use this type: AppealActionCode,AppealActionCode,AppealActionCoce,AppealActionCode.

Defines action to be taken on appeal

Name	AppealActionCode
*Base XSD Type: string	

AppealReasonCode

These field(s) use this type: AppealReasonCode.

Code defining reason for appeal

Change Repair Order

Name	AppealReasonCode
------	------------------

*Base XSD Type: string

AreaCode

These field(s) use this type: AreaCode.

Physical location of damage on the vehicle

Name	AreaCode
------	----------

*Base XSD Type: string

AssigningOrganizationPartyId

These field(s) use this type: AssigningPartyId.

Assigning Organization Party Id

Name	AssigningOrganizationPartyId
------	------------------------------

*Base XSD Type: string

Code Value	Description
LegalId	Legal ID
NationalId	Government-assigned ID such as a social security Number
Other	Other
DUNS	Dun and Bradstreet
MotorDealerRegistrationId	Department of Motor Vehicle Registration number for a dealer. This is the dealer's license number to do business.
GSTRegistrationId	Canadian Goods and Services Tax Id.
HSTRegistrationId	Canadian HarmonizedTax Id.

Change Repair Order

Code Value	Description
Certification Of Registration Id	Id of the certificate of registration assigned to a business to allow that business to collect and remit certain taxes or fees to a state.
QSTRegistrationId	Quebec sales tax id.

AssigningPartyId

These field(s) use this type: **AssigningPartyId**.

Agency or entity that validates the Party Id

Name	AssigningPartyId
Base XSD Type: string	
Code Value	Description
LegalId	Legal ID
DriversLicense	Drivers License
NationalId	Government-assigned ID such as a social security Number
Other	Other
GSTRegistrationId	Canadian Goods and Services Tax Id.
HSTRegistrationId	Canadian HarmonizedTax Id.
PreviousAccountNumber	
QSTRegistrationId	Quebec sales tax id.

AuthorizationCode

These field(s) use this type: **AuthorizationCode**.

Assigned authorization code

Change Repair Order

Name	AuthorizationCode
------	-------------------

*Base XSD Type: string

AuthorizationNumber

These field(s) use this type: AuthorizationNumber,AuthorizationNumber.

Authorization Number

Name	AuthorizationNumber
------	---------------------

*Base XSD Type: string

AuthorizationPayType

These field(s) use this type: AuthorizationPayType.

Payment Type covered by Authorization

Name	AuthorizationPayType
------	----------------------

*Base XSD Type: string

AxleCode

These field(s) use this type: AxleCode.

The code on the axle of the vehicle.

Name	AxleCode
------	----------

*Base XSD Type: string

BatteryWarrantyCode

These field(s) use this type: BatteryWarrantyCode.

Change Repair Order

Warranty code generated by battery tester to define the failure type of the battery (i.e., Midtronics)

Name	BatteryWarrantyCode
------	---------------------

*Base XSD Type: string

BirthDate

These field(s) use this type: **BirthDate**.

Birth date of party

Name	BirthDate
------	-----------

*Base XSD Type: date

BodyStyle

These field(s) use this type: **BodyStyle**.

Manufacturer-assigned vehicle body style

Name	BodyStyle
------	-----------

*Base XSD Type: string

BrandedTitleDate

These field(s) use this type: **BrandedTitleDate**.

Branding Date

Name	BrandedTitleDate
------	------------------

*Base XSD Type: date

BrandedTitleInd

Change Repair Order

These field(s) use this type: **BrandedTitleInd.**

This tag indicates if a vehicle's title has been branded. (i.e., vehicle totaled and state registration title branded as such)

Name	BrandedTitleInd
------	-----------------

*Base XSD Type: string

Code Value	Description
0	
1	

BrandingSource

These field(s) use this type: **BrandingSource.**

Branding source (i.e., source who says that the vehicle is branded)

Name	BrandingSource
------	----------------

*Base XSD Type: string

BrandingStateReference

These field(s) use this type: **BrandingStateReference.**

Branding State Reference Number

Name	BrandingStateReference
------	------------------------

*Base XSD Type: string

BusinessCenter

These field(s) use this type: **BusinessCenter.**

Identification of business area. Example: grouping of zones

Change Repair Order

Name	BusinessCenter
-------------	-----------------------

*Base XSD Type: string

CampaignDispositionCode

These field(s) use this type: CampaignDispositionCode.

A campaign related field specifying the disposition of a campaign Ex: completed, open, etc.

Name	CampaignDispositionCode
-------------	--------------------------------

*Base XSD Type: string

CampaignNotes

These field(s) use this type: CampaignNotes.

Free form comments related to campaign

Name	CampaignNotes
-------------	----------------------

*Base XSD Type: string

CampaignNumber

These field(s) use this type: CampaignNumber.

Manufacturer assigned campaign number

Name	CampaignNumber
-------------	-----------------------

*Base XSD Type: string

CampaignOptionCode

These field(s) use this type: CampaignOptionCode.

Change Repair Order

Manufacturer assigned Campaign Option Code

Name	CampaignOptionCode
------	--------------------

*Base XSD Type: string

CampaignReimbursementCode

These field(s) use this type: CampaignReimbursementCode.

A campaign related field specifying the reimbursement code for a campaign service. Reimbursement codes denote the mix of part and labor operations the dealer used to perform the service. Ex: Numeric value between 1 and 9

Name	CampaignReimbursementCode
------	---------------------------

*Base XSD Type: string

CaseNumber

These field(s) use this type: CaseNumber.

Case number

Name	CaseNumber
------	------------

*Base XSD Type: string

CaseOpenDate

These field(s) use this type: CaseOpenDate.

Case open date

Name	CaseOpenDate
------	--------------

*Base XSD Type: date

Change Repair Order

CaseOwner

These field(s) use this type: CaseOwner.

Case Owner

Name	CaseOwner
------	-----------

*Base XSD Type: string

CaseReasonNarrative

These field(s) use this type: CaseReasonNarrative.

Case Reason Narrative

Name	CaseReasonNarrative
------	---------------------

*Base XSD Type: string

CaseType

These field(s) use this type: CaseType.

Type of Customer Arbitration Intervention or legal action

Name	CaseType
------	----------

*Base XSD Type: string

Code Value	Description
Arbitration	
Legal	
Technical Analysis	
Customer Relations	
Better Business	

Change Repair Order

Code Value	Description
Other	Other

CauseCode

These field(s) use this type: CauseCode.

Manufacturer assigned reasonfor failure

Name	CauseCode
------	-----------

*Base XSD Type: string

CertifiedPreownedInd

These field(s) use this type: CertifiedPreownedInd.

Identifies as a certified Pre-Owned Vehicle

Name	CertifiedPreownedInd
------	----------------------

*Base XSD Type: string

Code Value	Description
0	
1	

City

These field(s) use this type: City.

City of the Address.

Name	City
------	------

Change Repair Order

*Base XSD Type: string

ClaimCategory

These field(s) use this type: ClaimCategory.

Secondary classification of claim reimbursement (e.g., Manufacturer Warranty, Service Contract, Transportation, Chargeback, Resubmission, etc.)

Name	ClaimCategory
------	---------------

*Base XSD Type: string

ClaimContinuationCode

These field(s) use this type: ClaimContinuationCode.

Code describing why claim is continued. (i.e., N = Not a continuation claim P = Parts continuation claim R = Reman Continuation claim O = Other continuation claim)

Name	ClaimContinuationCode
------	-----------------------

*Base XSD Type: string

ClaimNumber

These field(s) use this type: ClaimNumber.

Identifier of claim entered by dealer

Name	ClaimNumber
------	-------------

*Base XSD Type: string

ClaimType

These field(s) use this type: ClaimType.

Identifier of the type of claim

Change Repair Order

Name	ClaimType
------	-----------

*Base XSD Type: string

Code

These field(s) use this type: **BODId.**

Unique code name

Name	Code
------	------

*Base XSD Type: string

CompanyName

These field(s) use this type: **Name.**

Company name of customer

Name	CompanyName
------	-------------

*Base XSD Type: string

ComplaintCode

These field(s) use this type: **ComplaintCode.**

Customer complaint category

Name	ComplaintCode
------	---------------

*Base XSD Type: string

ComplaintCodeType

These field(s) use this type: **ComplaintCodeType.**

Change Repair Order

Type of problem as related to the CustomerComplaintCode.

Name	ComplaintCodeType
------	-------------------

*Base XSD Type: string

ComplaintPriority

These field(s) use this type: ComplaintPriority.

Priority from customer's view for specific complaint.

Name	ComplaintPriority
------	-------------------

*Base XSD Type: string

CompleteIncomplete

Status of Information transaction being sent C = Complete, I = Incomplete

Name	CompleteIncomplete
------	--------------------

*Base XSD Type: string

Code Value	Description
------------	-------------

C	
---	--

I	
---	--

ComponentType

These field(s) use this type: ComponentType.

Component Type

Name	ComponentType
------	---------------

*Base XSD Type: string

Change Repair Order

Code Value	Description
Miscellaneous	
GasOilGrease	
PaintMaterials	
ShopSupplies	
Freight	
Other	Other

ConcernAnswer

These field(s) use this type: **ConcernAnswer.**

Service concern answer.

Name	ConcernAnswer
------	---------------

*Base XSD Type: string

ConcernQuestion

These field(s) use this type: **ConcernQuestion.**

Service concern question.

Name	ConcernQuestion
------	-----------------

*Base XSD Type: string

Condition

These field(s) use this type: **Condition.**

Condition of Vehicle - Example: Excellent, Good, Fair, Poor, Unknown

Change Repair Order

Name	Condition
------	-----------

*Base XSD Type: string

ConfirmType

Name	ConfirmType
------	-------------

*Base XSD Type: NMTOKEN

Code Value	Description
Always	
OnChange	
Never	

ContactTelephoneNumberDescription

Contact Telephone Number Description

Name	ContactTelephoneNumberDescription
------	-----------------------------------

*Base XSD Type: string

Code Value	Description
Evening Phone	Evening Phone
Day Phone	Day Phone
Cell Phone	Cell Phone
Pager	Pager
Other	Other

Change Repair Order

ContactTelephoneNumberOrganizationDescription

Contact Telephone Number Organization Description

Name	ContactTelephoneNumberOrganizationDescription
*Base XSD Type: string	
Code Value	Description
Day Phone	Day Phone
Cell Phone	Cell Phone
Pager	Pager
Other	Other

ContactTime

These field(s) use this type: ContactTime,ContactTime.

Preferred contact time (i.e. Best day/time to reach the contact.

Name	ContactTime
*Base XSD Type: string	

ContractCompanyName

These field(s) use this type: ContractCompanyName.

Contract company name

Name	ContractCompanyName
*Base XSD Type: string	

ContractEffectiveDate

Change Repair Order

These field(s) use this type: ContractEffectiveDate.

Start Date of Service Contract

Name	ContractEffectiveDate
-------------	------------------------------

*Base XSD Type: date

ContractExpirationDate

These field(s) use this type: ContractExpirationDate.

Date the contract expires

Name	ContractExpirationDate
-------------	-------------------------------

*Base XSD Type: date

ContractNote

These field(s) use this type: ContractNote.

Free form comments that relate to the contract

Name	ContractNote
-------------	---------------------

*Base XSD Type: string

ContractOwnerName

These field(s) use this type: ContractOwnerName.

Name on service Contract (i.e., full name - First Last)

Name	ContractOwnerName
-------------	--------------------------

*Base XSD Type: string

Change Repair Order

ContractPlanCode

These field(s) use this type: ContractPlanCode.

Contract Plan Code

Name	ContractPlanCode
------	------------------

*Base XSD Type: string

ContractPlanStates

These field(s) use this type: ContractPlanStates.

States where the plan is valid

Name	ContractPlanStates
------	--------------------

*Base XSD Type: string

ContractStartDate

These field(s) use this type: ContractStartDate.

Contract sale Date

Name	ContractStartDate
------	-------------------

*Base XSD Type: date

ContractTransferInd

These field(s) use this type: ContractTransferInd.

Indicates if the contract is transferable

Name	ContractTransferInd
------	---------------------

*Base XSD Type: string

Change Repair Order

Code Value	Description
0	
1	

ContractTransferredInd

These field(s) use this type: **ContractTransferredInd.**

Indicates if the contract has been transferred

Name	ContractTransferredInd
*Base XSD Type: string	
Code Value	Description
0	
1	

ContractTripInterruptInd

These field(s) use this type: **ContractTripInterruptInd.**

Indicates if the contract allows for trip interruption

Name	ContractTripInterruptInd
*Base XSD Type: string	
Code Value	Description
0	
1	

Change Repair Order

ContractType

These field(s) use this type: **ContractType**.

Contract type and/or area of coverage

Name	ContractType
------	--------------

*Base XSD Type: string

Country

These field(s) use this type: **DealerCountry,DealerCountry,Country**.

Country in which the Address is in. Conforms to ISO 3166-2. AF -AFGHANISTAN AL -ALBANIA DZ -ALGERIA AS -AMERICAN SAMOA AD -ANDORRA AO -ANGOLA AI -ANGUILLA AQ -ANTARCTICA AG -ANTIGUA AND BARBUDA AR -ARGENTINA AM -ARMENIA AW -ARUBA AU -AUSTRALIA AT -AUSTRIA AZ -AZERBAIJAN BS -BAHAMAS BH -BAHRAIN BD -BANGLADESH BB -BARBADOS BY -BELARUS BE -BELGIUM BZ -BELIZE BJ -BENIN BM -BERMUDA BT -BHUTAN BO -BOLIVIA BA -BOSNIA AND HERZEGOVINA BW -BOTSWANA BV -BOUVET ISLAND BR -BRAZIL IO-BRITISH INDIAN OCEAN TERRITORY BN -BRUNEI DARUSSALAM BG -BULGARIA BF -BURKINA FASO BI -BURUNDI KH -CAMBODIA CM -CAMEROON CA -CANADA CV -CAPE VERDE KY -CAYMAN ISLANDS CF -CENTRAL AFRICAN REPUBLIC TD -CHAD CL -CHILE CN -CHINA CX -CHRISTMAS ISLAND CC -COCOS (KEELING) ISLANDS CO -COLOMBIA KM -COMOROS CG -CONGO CD -CONGO, THE DEMOCRATIC REPUBLIC OF THE CK -COOK ISLANDS CR -COSTA RICA CI -CÔTE D'IVOIRE HR -CROATIA CU -CUBA CY -CYPRUS CZ -CZECH REPUBLIC DK -DENMARK DJ -DJIBOUTI DM -DOMINICA DO -DOMINICAN REPUBLIC EC -ECUADOR EG -EGYPT SV -EL SALVADOR GQ -EQUATORIAL GUINEA ER -ERITREA EE -ESTONIA ET -ETHIOPIA FK -FALKLAND ISLANDS (MALVINAS) FO -FAROE ISLANDS FJ -FIJI FI -FINLAND FR -FRANCE GF -FRENCH GUIANA PF -FRENCH POLYNESIA TF -FRENCH SOUTHERN TERRITORIES GA -GABON GM -GAMBIA GE -GEORGIA DE -GERMANY GH -GHANA GI -GIBRALTAR GR -GREECE GL -GREENLAND GD -GRENADA GP -GUADELOUPE GU -GUAM GT -GUATEMALA GN -GUINEA GW -GUINEA-BISSAU GY -GUYANA HT -HAITI HM -HEARD ISLAND AND MCDONALD ISLANDS VA -HOLY SEE (VATICAN CITY STATE) HN -HONDURAS HK -HONG KONG HU -HUNGARY IS -ICELAND IN -INDIA ID -INDONESIA IR -IRAN, ISLAMIC REPUBLIC OF IQ -IRAQ IE -IRELAND IL -ISRAEL IT -ITALY JM -JAMAICA JP -JAPAN JO -JORDAN KZ -KAZAKHSTAN KE -KENYA KI -KIRIBATI KP -KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF KR -KOREA, REPUBLIC OF KW -KUWAIT KG -KYRGYZSTAN LA -LAO PEOPLE'S DEMOCRATIC REPUBLIC LV -LATVIA LB -LEBANON LS -LESOTHO LR -LIBERIA LY -LIBYAN ARAB JAMAHIRIYA LI -LIECHTENSTEIN LT -LITHUANIA LU -LUXEMBOURG MO -MACAO MK -MACEDONIA, THE FORMER YUGOSLAV REPUBLIC OF MG -MADAGASCAR MW -MALAWI MY -MALAYSIA MV -MALDIVES ML -MALI MT -MALTA MH -MARSHALL ISLANDS MQ -MARTINIQUE MR -MAURITANIA MU -MAURITIUS YT -MAYOTTE MX -MEXICO FM -MICRONESIA, FEDERATED STATES OF MD -MOLDOVA, REPUBLIC OF MC -MONACO MN -MONGOLIA MS -MONTSERRAT MA -MOROCCO MZ -MOZAMBIQUE MM -MYANMAR NA -NAMIBIA NR -NAURU NP -NEPAL NL -NETHERLANDS AN -NETHERLANDS ANTILLES NC -NEW CALEDONIA NZ -NEW ZEALAND NI -NICARAGUA NE -NIGER NG -NIGERIA NU -NIUE NF -NORFOLK ISLAND MP -NORTHERN MARIANA ISLANDS NO -NORWAY OM -OMAN PK -PAKISTAN PW

Change Repair Order

-PALAU PS -PALESTINIAN TERRITORY, OCCUPIED PA -PANAMA PG -PAPUA NEW GUINEA PY -PARAGUAY PE -PERU PH -PHILIPPINES PN -PITCAIRN PL -POLAND PT -PORTUGAL PR -PUERTO RICO QA -QATAR RE -RÅ#Å#UNION RO -ROMANIA RU -RUSSIAN FEDERATION RW -RWANDA SH -SAINT HELENA KN -SAINT KITTS AND NEVIS LC -SAINT LUCIA PM -SAINT PIERRE AND MIQUELON VC -SAINT VINCENT AND THE GRENADINES WS -SAMOA SM -SAN MARINO ST -SAO TOME AND PRINCIPE SA -SAUDI ARABIA SN -SENEGAL CS -SERBIA AND MONTENEGRO SC -SEYCHELLES SL -SIERRA LEONE SG -SINGAPORE SK -SLOVAKIA SI -SLOVENIA SB -SOLOMON ISLANDS SO -SOMALIA ZA -SOUTH AFRICA GS -SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS ES -SPAIN LK -SRI LANKA SD -SUDAN SR -SURINAME SJ -SVALBARD AND JAN MAYEN SZ -SWAZILAND SE -SWEDEN CH -SWITZERLAND SY -SYRIAN ARAB REPUBLIC TW -TAIWAN, PROVINCE OF CHINA TJ -TAJIKISTAN TZ -TANZANIA, UNITED REPUBLIC OF TH -THAILAND TL -TIMOR-LESTE TG - TOGO TK -TOKELAU TO -TONGA TT -TRINIDAD AND TOBAGO TN -TUNISIA TR -TURKEY TM -TURKMENISTAN TC -TURKS AND CAICOS ISLANDS TV -TUVALU UG -UGANDA UA -UKRAINE AE -UNITED ARAB EMIRATES GB -UNITED KINGDOM US -UNITED STATES UM -UNITED STATES MINOR OUTLYING ISLANDS UY -URUGUAY UZ -UZBEKISTAN VU -VANUATU VE -VENEZUELA VN -VIET NAM VG -VIRGIN ISLANDS, BRITISH VI -VIRGIN ISLANDS, U.S. WF -WALLIS AND FUTUNA EH -WESTERN SAHARA YE -YEMEN ZM -ZAMBIA ZW -ZIMBABWE

Name	Country
------	---------

*Base XSD Type: string

Code Value	Description
US	
AF	
AL	
DZ	
AS	
AD	
AO	
AI	
AQ	
AG	
AR	
AM	

Change Repair Order

Code Value	Description
AW	
AU	
AT	
AZ	
BS	
BH	
BD	
BB	
BY	
BE	
BZ	
BJ	
BM	
BT	
BO	
BA	
BW	
BV	
BR	
IO	
BN	
BG	

Change Repair Order

Code Value	Description
BF	
BI	
KH	
CM	
CA	
CV	
KY	
CF	
TD	
CL	
CN	
CX	
CC	
CO	
KM	
CG	
CD	
CK	
CR	
CI	
HR	
CU	

Change Repair Order

Code Value	Description
CY	
CZ	
DK	
DJ	
DM	
DO	
EC	
EG	
SV	
GQ	
ER	
EE	
ET	
FK	
FO	
FJ	
FI	
FR	
GF	
PF	
TF	
GA	

Change Repair Order

Code Value	Description
GM	
GE	
DE	
GH	
GI	
GR	
GL	
GD	
GP	
GU	
GT	
GN	
GW	
GY	
HT	
HM	
VA	
HN	
HK	
HU	
IS	
IN	

Change Repair Order

Code Value	Description
ID	
IR	
IQ	
IE	
IL	
IT	
JM	
JP	
JO	
KZ	
KE	
KI	
KP	
KR	
KW	
KG	
LA	
LV	
LB	
LS	
LR	
LY	

Change Repair Order

Code Value	Description
LI	
LT	
LU	
MO	
MK	
MG	
MW	
MY	
MV	
ML	
MT	
MH	
MQ	
MR	
MU	
YT	
MX	
FM	
MD	
MC	
MN	
MS	

Change Repair Order

Code Value	Description
MA	
MZ	
MM	
NA	
NR	
NP	
NL	
AN	
NC	
NZ	
NI	
NE	
NG	
NU	
NF	
MP	
NO	
OM	
PK	
PW	
PS	
PA	

Change Repair Order

Code Value	Description
PG	
PY	
PE	
PH	
PN	
PL	
PT	
PR	
QA	
RE	
RO	
RU	
RW	
SH	
KN	
LC	
PM	
VC	
WS	
SM	
ST	
SA	

Change Repair Order

Code Value	Description
SN	
CS	
SC	
SL	
SG	
SK	
SI	
SB	
SO	
ZA	
GS	
ES	
LK	
SD	
SR	
SJ	
SZ	
SE	
CH	
SY	
TW	
TJ	

Change Repair Order

Code Value	Description
TZ	
TH	
TL	
TG	
TK	
TO	
TT	
TN	
TR	
TM	
TC	
TV	
UG	
UA	
AE	
GB	
UM	
UY	
UZ	
VU	
VE	
VN	

Change Repair Order

Code Value	Description
VG	
VI	
WF	
EH	
YE	
ZM	
ZW	

County

These field(s) use this type: **County**.

Business party county location

Name	County
------	--------

*Base XSD Type: string

CouponComment

These field(s) use this type: **CouponComment**.

Comments associated with the coupon (e.g., Please rotate tire to front left).

Name	CouponComment
------	---------------

*Base XSD Type: string

Currency

The ISO code identifying the type of currency in use.

Change Repair Order

Name	Currency
*Base XSD Type: string	
Code Value	Description
USD	
ADP	
AED	
AFA	
ALL	
ANG	
AOK	
ARA	
ATS	
AUD	
AWG	
BBD	
BDT	
BEF	
BGL	
BHD	
BIF	
BMD	
BND	
BOB	

Change Repair Order

Code Value	Description
BRC	
BSD	
BTN	
BUK	
BWP	
BZD	
CAD	
CHF	
CLF	
CLP	
CNY	
COP	
CRC	
CSK	
CUP	
CVE	
CYP	
DDM	
DEM	
DJF	
DKK	
DOP	

Change Repair Order

Code Value	Description
DZD	
ECS	
EGP	
ESP	
ETB	
EUR	
FIM	
FKP	
FRF	
GBP	
GHC	
GIP	
GMD	
GNF	
GRD	
GTQ	
GWP	
GYD	
HKD	
HNL	
HTG	
HUF	

Change Repair Order

Code Value	Description
IDR	
IEP	
ILS	
INR	
IQD	
IRR	
ISK	
ITL	
JMD	
JOD	
JPY	
KES	
KHR	
KMF	
KPW	
KRW	
KWD	
KYD	
LAK	
LBP	
LKR	
LRD	

Change Repair Order

Code Value	Description
LSL	
LUF	
LYD	
MAD	
MGF	
MNT	
MOP	
MRO	
MTL	
MUR	
MVR	
MWK	
MXN	
MYR	
MZM	
NGN	
NIC	
NLG	
NOK	
NPR	
NZD	
OMR	

Change Repair Order

Code Value	Description
PAB	
PEI	
PGK	
PHP	
PKR	
PLZ	
PTE	
PYG	
QAR	
ROL	
RWF	
SAR	
SBD	
SCR	
SDP	
SEK	
SGD	
SHP	
SLL	
SKK	
SOS	
SRG	

Change Repair Order

Code Value	Description
STD	
SUR	
SVC	
SYP	
SZL	
THB	
TND	
TOP	
TPE	
TRL	
TTD	
TWD	
TZS	
UGS	
UYP	
VEB	
VND	
VUV	
WST	
YDD	
YER	
YUD	

Change Repair Order

Code Value	Description
ZAR	
ZRZ	
ZWD	
Other	

CustomerChangeInd

These field(s) use this type: CustomerChangeInd, CustomerChangeInd.

Indicates whether customer information has changed

Name	CustomerChangeInd
*Base XSD Type: string	
Code Value	Description
0	
1	

DamageCode

These field(s) use this type: DamageCode.

Type of damage that occurred (Ex: scratched, dented, etc)

Name	DamageCode
*Base XSD Type: string	

DataCollectionStatus

Change Repair Order

These field(s) use this type: DataCollectionStatus,DataCollectionStatus,DataCollectionStatus,DataCollectionStatus,DataCollectionStatus.

Indicates status of data for the record it appears on

Name	DataCollectionStatus
------	----------------------

*Base XSD Type: string

Code Value	Description
------------	-------------

C

I

Date

Date conforms to ISO 8601 format rules EX: \d\d\d\d-\d\d-\d\d

Name	Date
------	------

*Base XSD Type: date

DateTime

These field(s) use this type: CreationDateTime.

Date and time conforms to ISO 8601format rules without offset EX:2003-11-05T13:15:30Z

Name	DateTime
------	----------

*Base XSD Type: dateTime

DBAName

These field(s) use this type: DBAName.

Doing Business As name.

Name	DBAName
------	---------

Change Repair Order

*Base XSD Type: string

DealerInstallationInd

These field(s) use this type: **DealerInstallationInd**.

Indicates whether or not the dealership installed the part

Name	DealerInstallationInd
------	-----------------------

*Base XSD Type: string

Code Value	Description
0	
1	

DealerName

These field(s) use this type: **DealerName**.

Dealer name

Name	DealerName
------	------------

*Base XSD Type: string

DeductibleType

These field(s) use this type: **DeductibleType**.

The type of customer deductible. Eg: Service Contract

Name	DeductibleType
------	----------------

*Base XSD Type: string

Change Repair Order

DeductibleWaiverInd

These field(s) use this type: **DeductibleWaiverInd**.

Indicates that the dealer waived the deductible or changed the deductible from an amount greater than zero to zero.

Name	DeductibleWaiverInd
------	---------------------

*Base XSD Type: string

Code Value	Description
------------	-------------

0	
---	--

1	
---	--

DefectCode

These field(s) use this type: **DefectCode,DefectCode**.

Manufacturer assigned code that defines failed component that caused the claim

Name	DefectCode
------	------------

*Base XSD Type: string

DelayedInspectionCode

These field(s) use this type: **DelayedInspectionCode**.

Explains why a vehicle cannot be initially inspected once it arrives at a dealer (ie: dealer closed, no one around to sign for vehicle)

Name	DelayedInspectionCode
------	-----------------------

*Base XSD Type: string

DeliveryDate

These field(s) use this type: **DeliveryDate**.

Change Repair Order

The date of original retail vehicle sale

Name	DeliveryDate
-------------	---------------------

*Base XSD Type: date

Department

Department

Name	Department
-------------	-------------------

*Base XSD Type: string

DepartmentType

These field(s) use this type: **DepartmentType,DepartmentType.**

Identifies the type of department

Name	DepartmentType
-------------	-----------------------

*Base XSD Type: string

DiagnosticCodes

These field(s) use this type: **DiagnosticCodes.**

One or more Manufacturer Diagnostics Codes taken during the Repair Process for this job

Name	DiagnosticCodes
-------------	------------------------

*Base XSD Type: string

DiagnosticProcessCode

These field(s) use this type: **DiagnosticProcessCode.**

Change Repair Order

Specifies what diagnostic process was followed by technician

Name	DiagnosticProcessCode
------	-----------------------

*Base XSD Type: string

DiagnosticResultType

These field(s) use this type: DiagnosticResultType.

Identifies specific result that was obtained from the diagnostic process

Name	DiagnosticResultType
------	----------------------

*Base XSD Type: string

DiagnosticResultValue

These field(s) use this type: DiagnosticResultValue.

Identifies the value of the diagnostic process

Name	DiagnosticResultValue
------	-----------------------

*Base XSD Type: string

DistrictCode

These field(s) use this type: DistrictCode.

Manufacturer Assigned District Code

Name	DistrictCode
------	--------------

*Base XSD Type: string

DocumentDateTime

Change Repair Order

These field(s) use this type: DocumentDateTime.

Is the date and time the document was last created. This is not the date and time that the BOD message instance was created.

Name	DocumentDateTime
*Base XSD Type: dateTime	

DriverAction

These field(s) use this type: DriverAction,DriverAction.

Driver action (Ex: Drop-Off, Pick-Up, etc)

Name	DriverAction
*Base XSD Type: string	

EngineDisplacement

These field(s) use this type: EngineDisplacement.

Displacement of engine (i.e., amount of volume in the cylinders)

Name	EngineDisplacement
*Base XSD Type: string	

Code Value	Description
ci	ci - Cubic Inches
cc	cc - Cubic Centimeters
liters	liters
other	
N/A	Not Applicable

Change Repair Order

EngineLightInd

These field(s) use this type: **EngineLightInd.**

Check engine light indicator

Name	EngineLightInd
------	----------------

*Base XSD Type: string

Code Value	Description
------------	-------------

0

1

EngineNumber

These field(s) use this type: **EngineNumber.**

Serial number of the engine if vehicle not made for US sale

Name	EngineNumber
------	--------------

*Base XSD Type: string

ESCFranchiseInd

These field(s) use this type: **ESCFranchiseInd.**

Extended Service Competitive (ESC) flag indicates if dealer has franchise for Extended Service Program (ESP) repair for competitive make

Name	ESCFranchiseInd
------	-----------------

*Base XSD Type: string

Code Value	Description
------------	-------------

0

1

Change Repair Order

ExpirationDate

These field(s) use this type: ExpirationDate,ExpirationDate.

Expiration Date

Name	ExpirationDate
------	----------------

*Base XSD Type: date

ExteriorColor

These field(s) use this type: ExteriorColor.

Vehicle Exterior Color(s)

Name	ExteriorColor
------	---------------

*Base XSD Type: string

ExternalReferenceNumber

These field(s) use this type: ExternalReferenceNumber.

Secondary identifying scheme that is meaningful to claimant

Name	ExternalReferenceNumber
------	-------------------------

*Base XSD Type: string

FailureCode

These field(s) use this type: FailureCode.

Manufacturer-assigned code to describe the reason that a fault or symptom occurred

Name	FailureCode
------	-------------

*Base XSD Type: string

Change Repair Order

FamilyName

These field(s) use this type: **FamilyName.**

Last Name of business party

Name	FamilyName
------	------------

*Base XSD Type: string

FirstDayRentalInd

These field(s) use this type: **FirstDayRentalInd.**

If first day rental for service is covered in contract

Name	FirstDayRentalInd
------	-------------------

*Base XSD Type: string

Code Value	Description
------------	-------------

0	
---	--

1	
---	--

FleetAccount

These field(s) use this type: **FleetAccount.**

Manufacturer defined fleet account number

Name	FleetAccount
------	--------------

*Base XSD Type: string

FleetPurchaseOrderNumber

These field(s) use this type: **FleetPurchaseOrderNumber.**

Change Repair Order

Fleet Purchase Order Number vehicle was purchased under

Name	FleetPurchaseOrderNumber
-------------	---------------------------------

*Base XSD Type: string

FormattedName

These field(s) use this type: **FormattedName**.

Full Name of business party. Format for name should be "First Last" with no commas between first and last name

Name	FormattedName
-------------	----------------------

*Base XSD Type: string

FreightClaimNumber

These field(s) use this type: **FreightClaimNumber**.

The claim number of the freight claim associated with the current warranty claim

Name	FreightClaimNumber
-------------	---------------------------

*Base XSD Type: string

Gender

These field(s) use this type: **Gender**.

Gender of party - M = Male, F= Female

Name	Gender
-------------	---------------

*Base XSD Type: string

Code Value	Description
M	"M" = Modified

Change Repair Order

Code Value	Description
F	Female

GivenName

These field(s) use this type: **GivenName.**

First Name of business party

Name	GivenName
------	-----------

*Base XSD Type: string

GroupNumber

These field(s) use this type: **GroupNumber.**

Group Number

Name	GroupNumber
------	-------------

*Base XSD Type: string

HazmatInd

These field(s) use this type: **HazmatInd.**

Indicator that Hazmat Was Used

Name	HazmatInd
------	-----------

*Base XSD Type: string

Code Value	Description
0	
1	

Change Repair Order

HomeWork

Home or Work

Name	HomeWork
------	----------

*Base XSD Type: string

Code Value	Description
Home	Home
Work	Work
Other	Other

IgnitionKeyNumber

These field(s) use this type: IgnitionKeyNumber.

Vehicle Ignition Key Number

Name	IgnitionKeyNumber
------	-------------------

*Base XSD Type: string

Indicator

These field(s) use this type: DeliverPendingMailInd.

0 = No, 1 = Yes

Name	Indicator
------	-----------

*Base XSD Type: string

Code Value	Description
0	
1	

Change Repair Order

InsuranceCompanyName

These field(s) use this type: InsuranceCompanyName.

Insurance company name

Name	InsuranceCompanyName
------	----------------------

*Base XSD Type: string

InteriorColor

These field(s) use this type: InteriorColor.

Vehicle Interior Color(s)

Name	InteriorColor
------	---------------

*Base XSD Type: string

IssuingState

These field(s) use this type: IssuingState,IssuingState.

Indicates that State where the license was issued.

Name	IssuingState
------	--------------

*Base XSD Type: string

JobDenialCode

These field(s) use this type: JobDenialCode.

Dealer / Manufacturer defined code identifying the reason the customer denied service on a repair order line

Name	JobDenialCode
------	---------------

*Base XSD Type: string

Change Repair Order

JobGoodwillInd

These field(s) use this type: **JobGoodwillInd**.

Indicates if Dealer Goodwill has been applied to this job (complete or partial)

Name	JobGoodwillInd
*Base XSD Type: string	
Code Value	Description
0	
1	

JobNumber

These field(s) use this type: **JobNumber**.

DMS assigned job or line identification number

Name	JobNumber
*Base XSD Type: string	

JobReferbackNumber

These field(s) use this type: **JobReferbackNumber**.

Refer-back to a job that has already appeared within the same "pay-group" presently being processed (Customer, Claims or Internal Pay)

Name	JobReferbackNumber
*Base XSD Type: string	

JobStatus

These field(s) use this type: **JobStatus**.

Change Repair Order

Status of Job (Ex: Complete, Incomplete)

Name	JobStatus
------	-----------

*Base XSD Type: string

JobType

These field(s) use this type: JobType.

Type of service performed (special policy, warranty pay, etc)

Name	JobType
------	---------

*Base XSD Type: string

LaborActionCode

These field(s) use this type: LaborActionCode.

Manufacturer-assigned code to describe type of labor performed

Name	LaborActionCode
------	-----------------

*Base XSD Type: string

LaborOperationComment

These field(s) use this type: LaborOperationComment.

Free form comment regarding the labor operation.

Name	LaborOperationComment
------	-----------------------

*Base XSD Type: string

LaborOperationIdType

Change Repair Order

These field(s) use this type: **LaborOperationIdType**.

Labor operation category code

Name	LaborOperationIdType
------	----------------------

*Base XSD Type: string

LaborOperationLocation

These field(s) use this type: **LaborOperationLocation**.

Code Indicating Position/Location on Vehicle where labor was performed

Name	LaborOperationLocation
------	------------------------

*Base XSD Type: string

LaborOperationPolicyCode

These field(s) use this type: **LaborOperationPolicyCode**.

Dealer assigned Policy code for the labor operation

Name	LaborOperationPolicyCode
------	--------------------------

*Base XSD Type: string

Language

These field(s) use this type: **Language,Language,Language**.

Language conforms to ISO 639-2 rules. Note the format for this field is language-Country (see Country data type for the list of countries with definitions).
AA "Afar", AB "Abkhazian", AF "Afrikaans", AM "Amharic", AR "Arabic", AS "Assamese", AY "Aymara", AZ "Azerbaijani", BA "Bashkir", BE "Byelorussian", BG "Bulgarian", BH "Bihari", BI "Bislama", BN "Bengali" "Bangla", BO "Tibetan", BR "Breton", CA "Catalan", CO "Corsican", CS "Czech", CY "Welsh", DA "Danish", DE "German", DZ "Bhutani", EL "Greek", EN "English" "American", ES "Spanish", ET "Estonian", EU "Basque", FA "Persian", FI "Finnish", FJ "Fiji", FO "Faeroese", FR "French", FY "Frisian", GA "Irish", GD "Gaelic" "Scots Gaelic", GL "Galician", GN "Guarani", GU "Gujarati", HA "Hausa", HI "Hindi", HR "Croatian", HU "Hungarian", HY "Armenian", IK "Inupiak", IN "Indonesian", IS "Icelandic", IT "Italian",

Change Repair Order

IW "Hebrew", JA "Japanese", JI "Yiddish", JW "Javanese", KA "Georgian", KK "Kazakh", KL "Greenlandic", KM "Cambodian", KN "Kannada", KO "Korean", KS "Kashmiri", KU "Kurdish", KY "Kirghiz", LA "Latin", LN "Lingala", LO "Laothian", LT "Lithuanian", LV "Latvian" "Lettish", MG "Malagasy", MI "Maori", MK "Macedonian", ML "Malayalam", MN "Mongolian", MO "Moldavian", MR "Marathi", MS "Malay", MT "Maltese", MY "Burmese", NA "Nauru", NE "Nepali", NL "Dutch", NO "Norwegian", OC "Occitan", OM "Oromo" "Afan", OR "Oriya", PA "Punjabi", PL "Polish", PS "Pashto" "Pushto", PT "Portuguese", QU "Quechua", RM "Rhaeto-Romance", RN "Kirundi", RO "Romanian", RU "Russian", RW "Kinyarwanda", SA "Sanskrit", SD "Sindhi", SG "Sangro", SH "Serbo-Croatian", SI "Singhalese", SK "Slovak", SL "Slovenian", SM "Samoan", SN "Shona", SO "Somali", SQ "Albanian", SR "Serbian", SS "Siswati", ST "Sesotho", SU "Sudanese", SV "Swedish", SW "Swahili", TA "Tamil", TE "Tegulu", TG "Tajik", TH "Thai", TI "Tigrinya", TK "Turkmen", TL "Tagalog", TN "Setswana", TO "Tonga", TR "Turkish", TS "Tsonga", TT "Tatar", TW "Twi", UK "Ukrainian", UR "Urdu", UZ "Uzbek", VI "Vietnamese", WO "Wolof", XH "Xhosa", YO "Yoruba", ZH "Chinese", ZU "Zulu"

Name	Language
------	----------

*Base XSD Type: string

Code Value	Description
en-US	
en-CA	
aa-ET	
ab-GE	
af-ZA	
am-ET	
ar-SA	
as-IN	
ay-BO	
az-AZ	
ba-RU	
be-BY	
bg-BG	
bh-IN	

Change Repair Order

Code Value	Description
bi-VU	
bn-BD	
bo-BT	
br-FR	
ca-ES	
co-FR	
cs-CZ	
cy-GB	
da-DE	
de-DE	
dz-BT	
el-GR	
es-ES	
et-EE	
eu-ES	
fa-AF	
fi-FI	
fj-FJ	
fo-FO	
fr-CA	
fr-FR	
fy-NL	

Change Repair Order

Code Value	Description
ga-IE	
gd-GB	
gl-ES	
gn-PY	
gu-IN	
ha-NG	
hi-IN	
hr-HR	
hu-HU	
hy-AM	
ik-GL	
in-ID	
is-IS	
it-IT	
iw-IL	
ja-JP	
ji-IL	
jw-ID	
ka-GE	
kk-KZ	
kl-GL	
km-KH	

Change Repair Order

Code Value	Description
kn-IN	
ko-KP	
ko-KR	
ks-IN	
ku-IQ	
ky-CN	
la-VA	
ln-CD	
lo-LA	
lt-LT	
lv-LV	
mg-MG	
mi-NZ	
mk-MK	
ml-IN	
mn-MN	
mo-MO	
mr-IN	
ms-MY	
mt-MH	
my-MM	
na-NR	

Change Repair Order

Code Value	Description
ne-NP	
nl-NL	
no-NO	
oc-FR	
om- ET	
or-IN	
pa-IN	
pl-PL	
ps-PK	
pt-PT	
qu-PE	
rm-CH	
rn-BI	
ro-RO	
ru-RU	
rw-RW	
sa-IN	
sd-PK	
sg-CF	
sh-HR	
si-LK	
sk-SK	

Change Repair Order

Code Value	Description
sl-SI	
sm-WS	
sn-ZW	
so-SO	
sq-AL	
sr-CS	
ss-ZA	
st-ZA	
su-SD	
sv-SE	
sw-TL	
ta-IN	
te-IN	
tg-TJ	
th-TH	
ti-ET	
tk-TM	
tl-PH	
tn-ZA	
to-TO	
tr-TR	
ts-ZA	

Change Repair Order

Code Value	Description
tt-RU	
tw-GH	
uk-UA	
ur-PK	
uz-UZ	
vi-VN	
wo-SN	
xh-ZA	
yo-NG	
zh-CN	
zu-ZA	

LicenseNumber

These field(s) use this type: **LicenseNumber**.

State License plate number of vehicle

Name	LicenseNumber
------	---------------

*Base XSD Type: string

ListNumber

These field(s) use this type: **ListNumber**.

Identifies the weekly statement where the condition will be listed as paid.

Name	ListNumber
------	------------

Change Repair Order

*Base XSD Type: string

LoanerVehicleInd

These field(s) use this type: LoanerVehicleInd.

Loaner vehicle indicator

Name	LoanerVehicleInd
------	------------------

*Base XSD Type: string

Code Value	Description
0	
1	

LocationDescription

Location Description

Name	LocationDescription
------	---------------------

*Base XSD Type: string

MainOperationCode

These field(s) use this type: MainOperationCode.

Identifies the primary laborline or "main operator" that caused the vehicle to be serviced in the first place

Name	MainOperationCode
------	-------------------

*Base XSD Type: string

MajorDamageCode

Change Repair Order

These field(s) use this type: **MajorDamageCode**.

Identifies major damage Examples: Y=Yes, N=No, B=Old Damage

Name	MajorDamageCode
------	-----------------

*Base XSD Type: string

Make

These field(s) use this type: **Make,Make**.

Vehicle make code - Usually available in the VIN number (use NCIC code).

Name	Make
------	------

*Base XSD Type: string

ManualReviewCode

These field(s) use this type: **ManualReviewCode**.

Code to signal requirement for manual review

Name	ManualReviewCode
------	------------------

*Base XSD Type: string

Manufacturer

These field(s) use this type: **Manufacturer**.

Manufacturer Name

Name	Manufacturer
------	--------------

*Base XSD Type: string

Change Repair Order

MarketCode

These field(s) use this type: MarketCode.

A market code which designates the market area.

Name	MarketCode
------	------------

*Base XSD Type: string

MarketingMailInd

These field(s) use this type: MarketingMailInd,MarketingMailInd.

Indicates customers whom have requested no marketing mail

Name	MarketingMailInd
------	------------------

*Base XSD Type: string

Code Value	Description
------------	-------------

0	
---	--

1	
---	--

MarkupType

These field(s) use this type: MarkupType.

Specifies the markup applied by system or dealership input (e.g., S=System)

Name	MarkupType
------	------------

*Base XSD Type: string

MasterShieldInd

These field(s) use this type: MasterShieldInd.

Change Repair Order

Indicates if vehicle is covered by the Master Shield Extended warranty

Name	MasterShieldInd
------	-----------------

*Base XSD Type: string

Code Value	Description
0	
1	

MiddleName

These field(s) use this type: MiddleName.

Middle Initial of business party

Name	MiddleName
------	------------

*Base XSD Type: string

MileageMeasure

M = Miles, K = Kilometers

Name	MileageMeasure
------	----------------

*Base XSD Type: string

Code Value	Description
M	"M" = Modified
K	Kilometers

MiscellaneousNotes

Change Repair Order

These field(s) use this type: MiscellaneousNotes.

Free form miscellaneous comments

Name	MiscellaneousNotes
------	--------------------

*Base XSD Type: string

Model

These field(s) use this type: Model,Model.

Manufacturer-assigned model code of vehicle - Usually available in the VIN number (use NCIC code)

Name	Model
------	-------

*Base XSD Type: string

ModelDescription

These field(s) use this type: ModelDescription.

Descriptive vehicle model name

Name	ModelDescription
------	------------------

*Base XSD Type: string

ModelYear

These field(s) use this type: ModelYear.

Vehicle designated model year

Name	ModelYear
------	-----------

*Base XSD Type: gYear

Change Repair Order

Name

These field(s) use this type: **GivenName,FamilyName,FormattedName.**

Name of the Party.

Name	Name
------	------

*Base XSD Type: string

Narrative

These field(s) use this type: **Narrative.**

Comment/Narrative can occur multiple times depending on Narrative type

Name	Narrative
------	-----------

*Base XSD Type: string

NarrativeType

These field(s) use this type: **NarrativeType.**

Defines the Type of Narrative/Comment

Name	NarrativeType
------	---------------

*Base XSD Type: string

NoChargeLaborCode

These field(s) use this type: **NoChargeLaborCode.**

Indicates this labor operation is a no-charge (e.g, NC=Nop Charge; OL=Overlapping)

Name	NoChargeLaborCode
------	-------------------

*Base XSD Type: string

Change Repair Order

NonUSVehicleInd

These field(s) use this type: NonUSVehicleInd.

Indicates whether the vehicle was produced for the United States or not

Name	NonUSVehicleInd
------	-----------------

*Base XSD Type: string

Code Value	Description
0	
1	

Note

A free form note.

Name	Note
------	------

*Base XSD Type: string

NotificationDate

These field(s) use this type: NotificationDate.

Notification date

Name	NotificationDate
------	------------------

*Base XSD Type: date

NotificationReason

These field(s) use this type: NotificationReason.

Notification Reason

Change Repair Order

Name	NotificationReason
------	--------------------

*Base XSD Type: string

OdometerStatus

These field(s) use this type: **OdometerStatus.**

Status of odometer at trade-in. Example:: Replaced, Tampered, Miles> 90,000, etc.

Name	OdometerStatus
------	----------------

*Base XSD Type: string

OEMClaimNumber

These field(s) use this type: **OEMClaimNumber.**

Assigned by OEM at time of claim processing

Name	OEMClaimNumber
------	----------------

*Base XSD Type: string

OEMVehicleInd

These field(s) use this type: **OEMVehicleInd.**

Indicates whether or not the part was installed on an OEM vehicle

Name	OEMVehicleInd
------	---------------

*Base XSD Type: string

Code Value	Description
------------	-------------

0	
---	--

1	
---	--

Change Repair Order

OptionName

These field(s) use this type: OptionName.

Name of vehicle option

Name	OptionName
------	------------

*Base XSD Type: string

OptionSecurityCode

These field(s) use this type: OptionSecurityCode.

Security code to unlock option. (i.e, radio code)

Name	OptionSecurityCode
------	--------------------

*Base XSD Type: string

OptionStockNumber

These field(s) use this type: OptionStockNumber.

Stock Number of Vehicle Option

Name	OptionStockNumber
------	-------------------

*Base XSD Type: string

OrderInternalNotes

These field(s) use this type: OrderInternalNotes.

Free form text for internal repair order remarks that will NOT be printed on the invoice

Name	OrderInternalNotes
------	--------------------

*Base XSD Type: string

Change Repair Order

OrderNotes

These field(s) use this type: OrderNotes.

Free form text for general repair order comment which will be printed on the invoice

Name	OrderNotes
------	------------

*Base XSD Type: string

OriginalRepairOrderNumber

These field(s) use this type: OriginalRepairOrderNumber.

References Original Repair Order number

Name	OriginalRepairOrderNumber
------	---------------------------

*Base XSD Type: string

OriginalSerialNumber

These field(s) use this type: OriginalSerialNumber.

The serial number of the part that is being replaced

Name	OriginalSerialNumber
------	----------------------

*Base XSD Type: string

OriginCode

These field(s) use this type: OriginCode.

Indicates source of repair order- Examples: D - Dealer Entered; T -Teleservice; K - Key Reader

Name	OriginCode
------	------------

*Base XSD Type: string

Change Repair Order

PackageCode

These field(s) use this type: **PackageCode**.

Package Code

Name	PackageCode
------	-------------

*Base XSD Type: string

PartAccessoryInd

These field(s) use this type: **PartAccessoryInd**.

Indicates whether this is an accessory

Name	PartAccessoryInd
------	------------------

*Base XSD Type: string

Code Value	Description
------------	-------------

0	
---	--

1	
---	--

PartDealerName

These field(s) use this type: **PartDealerName**.

Name of the dealer/business that installed failed part

Name	PartDealerName
------	----------------

*Base XSD Type: string

PartSourceCode

These field(s) use this type: **PartSourceCode**.

Change Repair Order

Indicates the source of the part (e.g. M - Manufacturer)

Name	PartSourceCode
------	----------------

*Base XSD Type: string

PartType

These field(s) use this type: **PartType,PartType,PartType.**

Specifies whether the parts are indicated by manufacturer part code or Part Number - H = Manufacturer Part Code, P = Part Number

Name	PartType
------	----------

*Base XSD Type: string

Code Value	Description
H	Manufacturer Part Code
P	"P" = Pending

PCMFailureCode

These field(s) use this type: **PCMFailureCode.**

Powertrain Control Model failure code

Name	PCMFailureCode
------	----------------

*Base XSD Type: string

PostalCode

These field(s) use this type: **PostalCode.**

Postal Code of the Address.

Name	PostalCode
------	------------

Change Repair Order

*Base XSD Type: string

PreferredContactMethod

These field(s) use this type: PreferredContactMethod.

Preferred contact method

Name	PreferredContactMethod
*Base XSD Type: string	
Code Value	Description
Day Phone	Day Phone
Evening Phone	Evening Phone
Cell Phone	Cell Phone
Work Fax	Work Fax
Home Fax	Home Fax
Pager	Pager
Work Email	Work Email
Home Email	Home Email
US Mail	US Mail
Other	Other
N/A	Not Applicable

PreferredContactMethodOrganization

These field(s) use this type: PreferredContactMethod.

Preferred Contact Method Organization

Change Repair Order

Name	PreferredContactMethodOrganization
*Base XSD Type: string	
Code Value	Description
Day Phone	Day Phone
Cell Phone	Cell Phone
Work Fax	Work Fax
Pager	Pager
Work Email	Work Email
US Mail	US Mail
Other	Other

PreferredLanguage

These field(s) use this type: **PreferredLanguage**.

Preferred language

Name	PreferredLanguage
*Base XSD Type: string	
Code Value	Description
en-US	
en-CA	
aa-ET	
ab-GE	
af-ZA	
am- ET	

Change Repair Order

Code Value	Description
ar-SA	
as-IN	
ay-BO	
az-AZ	
ba-RU	
be-BY	
bg-BG	
bh-IN	
bi-VU	
bn-BD	
bo-BT	
br-FR	
ca-ES	
co-FR	
cs-CZ	
cy-GB	
da-DE	
de-DE	
dz-BT	
el-GR	
es-ES	
et-EE	

Change Repair Order

Code Value	Description
eu-ES	
fa-AF	
fi-FI	
fj-FJ	
fo-FO	
fr-CA	
fr-FR	
fy-NL	
ga-IE	
gd-GB	
gl-ES	
gn-PY	
gu-IN	
ha-NG	
hi-IN	
hr-HR	
hu-HU	
hy-AM	
ik-GL	
in-ID	
is-IS	
it-IT	

Change Repair Order

Code Value	Description
iw-IL	
ja-JP	
ji-IL	
jw-ID	
ka-GE	
kk-KZ	
kl-GL	
km-KH	
kn-IN	
ko-KP	
ko-KR	
ks-IN	
ku-IQ	
ky-CN	
la-VA	
ln-CD	
lo-LA	
lt-LT	
lv-LV	
mg-MG	
mi-NZ	
mk-MK	

Change Repair Order

Code Value	Description
ml-IN	
mn-MN	
mo-MO	
mr-IN	
ms-MY	
mt-MH	
my-MM	
na-NR	
ne-NP	
nl-NL	
no-NO	
oc-FR	
om- ET	
or-IN	
pa-IN	
pl-PL	
ps-PK	
pt-PT	
qu-PE	
rm-CH	
rn-BI	
ro-RO	

Change Repair Order

Code Value	Description
ru-RU	
rw-RW	
sa-IN	
sd-PK	
sg-CF	
sh-HR	
si-LK	
sk-SK	
sl-SI	
sm-WS	
sn-ZW	
so-SO	
sq-AL	
sr-CS	
ss-ZA	
st-ZA	
su-SD	
sv-SE	
sw-TL	
ta-IN	
te-IN	
tg-TJ	

Change Repair Order

Code Value	Description
th-TH	
ti-ET	
tk-TM	
tl-PH	
tn-ZA	
to-TO	
tr-TR	
ts-ZA	
tt-RU	
tw-GH	
uk-UA	
ur-PK	
uz-UZ	
vi-VN	
wo-SN	
xh-ZA	
yo-NG	
zh-CN	
zu-ZA	

PriceExplanation

These field(s) use this type: **PriceExplanation.**

Change Repair Order

Explanatory Note for Pricing

Name	PriceExplanation
------	------------------

*Base XSD Type: string

PriceType

These field(s) use this type: **PriceType**.

Price Type

Name	PriceType
------	-----------

*Base XSD Type: string

Code Value	Description
------------	-------------

Job

Labor

Parts

Sublet

Miscellaneous

GasOilGrease

PaintMaterials

ShopSupplies

Freight

Claim

SubletLabor

SubletParts

ReturnCore

Change Repair Order

Code Value	Description
Customer	Initiative applies to Customer category, e.g. First Time Buyer, etc.
Internal	
RentLoaner	
Return	
Splits	
Total	
Other	Other

PrimaryContactInd

These field(s) use this type: **PrimaryContactInd.**

Indicates if contact is primary contact

Name	PrimaryContactInd
*Base XSD Type: string	
Code Value	Description
0	
1	

PrimaryDriverInd

These field(s) use this type: **PrimaryDriverInd,PrimaryDriverInd.**

Identifies customer as primary driver.

Name	PrimaryDriverInd
------	------------------

Change Repair Order

*Base XSD Type: string

Code Value	Description
0	
1	

PriorClaimNumber

These field(s) use this type: **PriorClaimNumber**.

Original claim number for a claim that being continued. In other words, a claim was entered and paid, but something was forgotten. The dealer can then continue the claim using a different claim number and this is the original claim number.

Name	PriorClaimNumber
------	------------------

*Base XSD Type: string

Priority

Indicates manufacturer handling and processing urgency

Name	Priority
------	----------

*Base XSD Type: string

ProviderName

These field(s) use this type: **ProviderName,ProviderName**.

Provider Name

Name	ProviderName
------	--------------

*Base XSD Type: string

Change Repair Order

ReceiptNumber

These field(s) use this type: ReceiptNumber,ReceiptNumber.

Numeric identifier found on the carrier's receipt when a vehicle is delivered to the dealer

Name	ReceiptNumber
------	---------------

*Base XSD Type: string

Reference

These field(s) use this type: ReferenceId.

Reference notation

Name	Reference
------	-----------

*Base XSD Type: string

ReferenceNumber

Reference number

Name	ReferenceNumber
------	-----------------

*Base XSD Type: string

RegisteredMailReceiptNumber

These field(s) use this type: RegisteredMailReceiptNumber.

Registered Mail Receipt Number

Name	RegisteredMailReceiptNumber
------	-----------------------------

*Base XSD Type: string

Change Repair Order

RelationshipCode

These field(s) use this type: **RelationshipCode,RelationshipCode.**

Indicates the Business Party's relationship to the primary Party (e.g., mother, father, husband, etc.).

Name	RelationshipCode
------	------------------

*Base XSD Type: string

RentInDate

These field(s) use this type: **RentInDate.**

Date rental/loaner vehicle provided to customer

Name	RentInDate
------	------------

*Base XSD Type: date

RentLoan

R= Rental or L=Loaner

Name	RentLoan
------	----------

*Base XSD Type: string

Code Value	Description
------------	-------------

L	
---	--

R	
---	--

RentLoanerCode

These field(s) use this type: **RentLoanerCode.**

Identifies rental/loaner vehicle

Change Repair Order

Name	RentLoanerCode
*Base XSD Type: string	
Code Value	Description
L	
R	

RentLoanerInvoiceNumber

These field(s) use this type: **RentLoanerInvoiceNumber**.

Rental/loaner accounting identifier - the Rental Loaner Invoice # from either the DMS or rental company

Name	RentLoanerInvoiceNumber
*Base XSD Type: string	

RentLoanerReasonCode

These field(s) use this type: **RentLoanerReasonCode**.

The reason code identifying the reason a rental loaner was provided

Name	RentLoanerReasonCode
*Base XSD Type: string	

RentNotes

These field(s) use this type: **RentNotes**.

Rent Loaner Comments

Name	RentNotes
*Base XSD Type: string	

Change Repair Order

RentOutDate

These field(s) use this type: **RentOutDate.**

Date rental/loaner vehicle provided to customer

Name	RentOutDate
------	-------------

*Base XSD Type: date

RepairOrderCompletedDate

These field(s) use this type: **RepairOrderCompletedDate.**

The date the last line was closed on the repair order

Name	RepairOrderCompletedDate
------	--------------------------

*Base XSD Type: date

RepairOrderInvoiceDate

These field(s) use this type: **RepairOrderInvoiceDate.**

The date the repair order transaction moves to accounting

Name	RepairOrderInvoiceDate
------	------------------------

*Base XSD Type: date

RepairOrderOpenedDate

These field(s) use this type: **RepairOrderOpenedDate.**

System date when Repair Order was opened

Name	RepairOrderOpenedDate
------	-----------------------

*Base XSD Type: date

Change Repair Order

RepeatRepairInd

These field(s) use this type: **RepeatRepairInd.**

Identifies repair as having been performed previously on the vehicle

Name	RepeatRepairInd
------	-----------------

*Base XSD Type: string

Code Value	Description
------------	-------------

0	
---	--

1	
---	--

ReplacementSerialNumber

These field(s) use this type: **ReplacementSerialNumber.**

Replacement Serial Number

Name	ReplacementSerialNumber
------	-------------------------

*Base XSD Type: string

RestrictionInd

These field(s) use this type: **RestrictionInd.**

Indication that vehicle has restrictions on its use

Name	RestrictionInd
------	----------------

*Base XSD Type: string

Code Value	Description
------------	-------------

0	
---	--

1	
---	--

Change Repair Order

RoadHazardInd

These field(s) use this type: **RoadHazardInd**.

Indicates whether Roadside hazard is covered in the contract

Name	RoadHazardInd
------	---------------

*Base XSD Type: string

Code Value	Description
------------	-------------

0	
---	--

1	
---	--

RoadsideAssistanceInd

These field(s) use this type: **RoadsideAssistanceInd,RoadsideAssistanceInd**.

Indicates whether coverage includes roadside assistance

Name	RoadsideAssistanceInd
------	-----------------------

*Base XSD Type: string

Code Value	Description
------------	-------------

0	
---	--

1	
---	--

SaleClass

These field(s) use this type: **SaleClass**.

Class of sale.

Name	SaleClass
------	-----------

Change Repair Order

*Base XSD Type: string

Code Value	Description
New	Never owned.
Used	Previously Owned
Demo	Demonstration item.
Other	Other
N/A	Not Applicable
Floor Sample	This is a vehicle that is provided in the showroom as an example.
Factory	Identifies that the vehicle may have been used as a product demonstration for an official or executive from the manufacturer.

Salutation

These field(s) use this type: **Salutation.**

Title or greeting of business party

Name	Salutation
------	------------

*Base XSD Type: string

SecondaryPassword

These field(s) use this type: **SecondaryPassword.**

Secondary password used to validate access to the dealer information

Name	SecondaryPassword
------	-------------------

*Base XSD Type: string

Change Repair Order

SecondaryReferenceNumber

These field(s) use this type: SecondaryReferenceNumber.

Secondary Repair Order reference number

Name	SecondaryReferenceNumber
------	--------------------------

*Base XSD Type: string

SerialNumber

Serial Number

Name	SerialNumber
------	--------------

*Base XSD Type: string

ServiceAdvisorName

These field(s) use this type: ServiceAdvisorName.

Name of service advisor

Name	ServiceAdvisorName
------	--------------------

*Base XSD Type: string

ServiceCode

These field(s) use this type: ServiceCode.

Manufacturer assigned code for service component

Name	ServiceCode
------	-------------

*Base XSD Type: string

Change Repair Order

ShortMfg

These field(s) use this type: SenderNameCode, DestinationNameCode.

Short Manufacturer or RSP Codes

Name	ShortMfg
------	----------

*Base XSD Type: string

SortName

These field(s) use this type: SortName.

Index name used as a sort for report purposes

Name	SortName
------	----------

*Base XSD Type: string

SparePartDate

These field(s) use this type: SparePartDate.

The date the part was purchased

Name	SparePartDate
------	---------------

*Base XSD Type: date

SparePartInvoiceNumber

These field(s) use this type: SparePartInvoiceNumber.

The invoice number on which the part was sold over the counter

Name	SparePartInvoiceNumber
------	------------------------

*Base XSD Type: string

Change Repair Order

SplitsType

These field(s) use this type: **SplitsType**.

Splits Type

Name	SplitsType
*Base XSD Type: string	
Code Value	Description
Job	
Labor	
Parts	
Sublet	
Miscellaneous	
GasOilGrease	
PaintMaterials	
ShopSupplies	
Freight	
Total	
Other	Other

StateOrProvince

These field(s) use this type: **StateOrProvince**.

Is the State or Province of a given Address.

Name	StateOrProvince
*Base XSD Type: string	

Change Repair Order

StatusCode

These field(s) use this type: **StatusCode**.

A code identifying the reason for the status message.

Name	StatusCode
*Base XSD Type: string	
Code Value	Description
Success	The operation completed successfully. This does not necessarily mean that the BOD was processed. Instead it means that the client's role is done and that it won't receive any error messages later. Type of Response Code: Success.
Unspecified	An unspecified error occurred. The StatusText field contains the complete text.
Not In Inventory	Inventory is not currently available and back ordering was not requested.
Discontinued	The part has discontinued.
Invalid Part	Invalid part number.
Not Yet Available	The part is scheduled for a future release date and is not available at this time.
Not Authorized	The part is not authorized for your product line.
Under Development	The part is under development and not ready for sale.
Assembly Only	The part is a component part and is only available as an assembly.
Component Only	The part is an assembly part and is only available as a component.
Internal Use Only	The part is reserved for manufacturing and supplier internal use; it is not a service replacement part.
Recalled	The part has been recalled.
Cannot Sell	The part is not available for sale for an unspecified reason.
Export Only	The part is not available for sale in the United States; it is for export vehicles only.
Credit Limit Exceeded	Credit limit exceeded.

Change Repair Order

Code Value	Description
Credit Card Denied	Credit card transaction denied by creditor.
Account On Hold	The dealer's account has been put on hold.
Invalid Unit Of Measure	The unit of measurement was invalid for this part number.
Invalid Promotion Code	The promotion code is invalid.
Invalid Shipping Method	The shipping method is invalid, for example, shipping by ground to Puerto Rico.
Duplicate Line Number	The line number is the same as another line within this transaction.
No Drop Shipment	Drop shipments are not allowed.
No Will Call	Will-call pickups are not allowed.
Minimum Quantity Not Met	There is a minimum quantity purchase requirement for this part and the quantity has not been met. The minimum quantity is: NN
Other	Other
N/A	Not Applicable

StatusText

These field(s) use this type: **StatusText**.

Descriptive status text.

Name	StatusText
------	------------

Base XSD Type: string

StatusType

These field(s) use this type: **StatusType**.

Defines the type of status that occurred. EX: S-Success, E-Error, I-Info, A-Abort

Change Repair Order

Name	StatusType
*Base XSD Type: string	
Code Value	Description
Success	The operation completed successfully. This does not necessarily mean that the BOD was processed. Instead it means that the client's role is done and that it won't receive any error messages later. Type of Response Code: Success.
Error	The operation resulted in error and did not succeed.
Warning	The operation completed a warning.
Informational	The provided StatusText is informational.
Other	Other
N/A	Not Applicable

SubletCode

These field(s) use this type: **SubletCode**.

Type of sublet work

Name	SubletCode
*Base XSD Type: string	

SubletInvoiceNumber

These field(s) use this type: **SubletInvoiceNumber**.

Third party invoice number for work

Name	SubletInvoiceNumber
*Base XSD Type: string	

Change Repair Order

Suffix

These field(s) use this type: **Suffix**.

Business Party name suffix designation if individual Ex: Sr, Jr, III, etc.

Name	Suffix
------	--------

*Base XSD Type: string

SupplementalCampaignInd

These field(s) use this type: **SupplementalCampaignInd**.

Denotes whether claim is actual campaign service or additional service, but still related to the campaign

Name	SupplementalCampaignInd
------	-------------------------

*Base XSD Type: string

Code Value	Description
------------	-------------

0	
---	--

1	
---	--

SymptomCode

These field(s) use this type: **SymptomCode**.

Manufacturer-assigned code to describe how customer experiences problem

Name	SymptomCode
------	-------------

*Base XSD Type: string

SystemVersion

These field(s) use this type: **SystemVersion**.

Change Repair Order

The sender's software version number .

Name	SystemVersion
------	---------------

*Base XSD Type: string

TaxabilityInd

These field(s) use this type: **TaxabilityInd.**

Determines whether an item or amount is taxable.

Name	TaxabilityInd
------	---------------

*Base XSD Type: string

Code Value	Description
------------	-------------

0

1

TaxType

These field(s) use this type: **TaxType.**

Tax Type

Name	TaxType
------	---------

*Base XSD Type: string

Code Value	Description
------------	-------------

Total

Amount

Labor

Parts

Change Repair Order

Code Value	Description
Claim	
Dealer	Dealer
Deductible	
Prorated	
Other	Other
Luxury	
Vehicle Inventory	
Taxes Not In Cash Price	
Document Stamp	
Sales	
Tire	
Personal Property	
Registration	
Monthly/Use	
Weight	
Adjustment	
DownPayment	
CapCostReduction	
Lieu	
CurrentYear	
N/A	Not Applicable
LocalOption	Tennessee Tax - combination of city and county.

Change Repair Order

Code Value	Description
SingleArticle	Tennessee Tax - State Tax
Gas	Gas tax levied to applicable vehicles or by state/province law. (Referred to in US as "Gas Guzzler" tax).
Total Monthly/Use	The total amount of monthly use tax for a payment on a contract.
Service Contract	Tax charged on service contracts (where applicable).
Adjusted Sales	Adjusted sales tax due to tax modifications when capitalized (i.e. NY)
Total Sales/Use	The total amount of sales/use tax for a single payment contract.
Air Conditioning Excise	Provincial tax providing for the installation or removal of freon. (Canada)
Purchase and Use	A type of tax that is assessed upon "tax free" tangible personal property purchased by a resident of the assessing state for use, storage or consumption of goods in that state (not for resale), regardless of where the purchase took place. The tax is a one time retail tax due at registration or titling of a vehicle.
County Tax	A county tax charged based on the location of the dealer and the customer. An example, The Cook County Tax.
General Excise	This is a general excise tax that a state or region could impose.
Gross Receipt	A gross receipts tax, sometimes referred to as a gross excise tax, is a tax on the total gross revenues of a company, regardless of their source.
Tax on Trade-In	Tax due on a trade-in vehicle.
Tax on Upfront Fees	Total tax due on fees paid upfront.
Tax on Acquisition Fee	Tax due on amount of acquisition fee.
Environmental Tax	Environmental Levy / Tax.
Motor Vehicle Tax	Tax paid at of registration based on the vehicle's age and MSRP.
Wheel Tax	A tax levied by cities and villages to be credited to a road fund of the city or village

TaxTypeId

Change Repair Order

These field(s) use this type: **TaxTypeId**.

CS - City, CP - County, ST - State, OT - Other, EX - Excise, VAT - Value Added Tax, PST - Provincial Sales Tax , RT - Rental, GST - Goods and Services Tax, HST - Harmonized Tax, ART - Air Tax, QST - Quebec Sales Tax, IMP - Import Tax

Name	TaxTypeId
------	-----------

*Base XSD Type: string

Code Value	Description
CS	City
CP	County
ST	State
OT	"OT" = Other
EX	Excise
VAT	Value Added
PST	Provincial Sales Tax
RT	Rental
GST	Goods and Services Tax
HST	Harmonized Tax
ART	Air Tax
QST	Quebec Sales Tax
IMP	Import Tax

TeamName

These field(s) use this type: **TeamName**.

Name of team

Change Repair Order

Name

TeamName

*Base XSD Type: string

TechnicianName

These field(s) use this type: TechnicianName.

Name of technician

Name

TechnicianName

*Base XSD Type: string

TechnicianNotes

These field(s) use this type: TechnicianNotes.

Free form technician comments

Name

TechnicianNotes

*Base XSD Type: string

TechnicianSkillArea

These field(s) use this type: TechnicianSkillArea.

Type of training required to perform the labor operation

Name

TechnicianSkillArea

*Base XSD Type: string

TechnicianSkillLevel

These field(s) use this type: TechnicianSkillLevel.

Change Repair Order

Level of training required to perform the labor operation

Name	TechnicianSkillLevel
------	----------------------

*Base XSD Type: string

TelematicsServiceInd

These field(s) use this type: TelematicsServiceInd.

Indication whether Telematics Service Subscription is turned on

Name	TelematicsServiceInd
------	----------------------

*Base XSD Type: string

Code Value	Description
------------	-------------

0	
---	--

1	
---	--

TermLength

Term Length

Name	TermLength
------	------------

*Base XSD Type: string

Code Value	Description
------------	-------------

Months	Months
--------	--------

Weeks	Weeks
-------	-------

Years	Years
-------	-------

Change Repair Order

Text

These field(s) use this type:

CreatorNameCode,StoreNumber,AreaNumber>Password,DestinationSoftwareCode,DestinationSoftware,StoreNumber,AreaNumber,LogicalId,Component,T

Indicates generic text type

Name	Text
------	------

*Base XSD Type: string

TowedInInd

These field(s) use this type: TowedInInd.

Indicates that this job led to the need to have this car towed in

Name	TowedInInd
------	------------

*Base XSD Type: string

Code Value	Description
0	
1	

TransmissionCode

These field(s) use this type: TransmissionCode.

Transmission Serial Number

Name	TransmissionCode
------	------------------

*Base XSD Type: string

TransmissionType

Change Repair Order

These field(s) use this type: **TransmissionType**.

Vehicle Transmission type - 3 = 3 speed, 4 = 4 speed, 5 = 5 speed, 6 = 6 speed, A - Automatic

Name	TransmissionType
*Base XSD Type: string	
Code Value	Description
3	3 Speed
4	4 Speed
5	5 Speed
6	6 Speed
A	"A" = Automatic
Automatic 3	Automatic 3 speed transmission type
Automatic 4	Automatic 4 speed transmission type
Automatic 5	Automatic 5 speed transmission type
Automatic 6	Automatic 6 speed transmission type
Automatic 7	Automatic 7 speed transmission type
7	7 Speed
CVT Automatic 3	Continuously Variable T ransmission Automatic 3 speed transmission type (natural gas and hybrid).
CVT Automatic 4	Continuously Variable T ransmission Automatic 4 speed transmission type (natural gas and hybrid).
CVT Automatic 5	Continuously Variable T ransmission Automatic 5 speed transmission type (natural gas and hybrid).
CVT Automatic 6	Continuously Variable T ransmission Automatic 6 speed transmission type (natural gas and hybrid).

Change Repair Order

Code Value	Description
CVT Automatic 7	Continuously Variable T ransmission Automatic 7 speed transmission type (natural gas and hybrid).
M	M = Manual

TransportationCarrier

These field(s) use this type: **TransportationCarrier**.

Name of transportation carrier

Name	TransportationCarrier
-------------	------------------------------

*Base XSD Type: string

TreadActInd

These field(s) use this type: **TreadActInd,TreadActInd,TreadActInd**.

Transportation Recall Enhancement, Accountability, and Documentation (TREAD) Act (i.e., - Indicates if there has been fire damage)

Name	TreadActInd
-------------	--------------------

*Base XSD Type: string

Code Value	Description
0	
1	

TrimCode

These field(s) use this type: **TrimCode**.

Manufacturer assigned trim code

Change Repair Order

Name	TrimCode
------	----------

*Base XSD Type: string

Type

Type

Name	Type
------	------

*Base XSD Type: string

UOM

Units of Measure - ea=Each; bx=Box; case=Case; ctn=Carton; gal=Gallon; qt=Quart; pt=Pint; ft=Feet; yd=Yard; in=Inch; L=Liter; m=Meter; cm=Centimeter; kg=Kilograms; g=grams; other=Other

Name	UOM
------	-----

*Base XSD Type: string

Code Value	Description
ea	Each
bx	Box
case	Case
ctn	Carton
gal	Gallon
qt	Quart
pt	Pint
ft	ft = feet
yd	yd = yard
in	in = inch

Change Repair Order

Code Value	Description
L	"L" = Canceled
m	m = meter
cm	cm = centimeter
kg	Kilogram
g	Gram
other	
tn	Ton
km	kilometers
mi	miles
hp	horsepower
kw	kilowatt

UrbanizationCode

These field(s) use this type: UrbanizationCode, UrbanizationCode.

Geographic definition of a metropolitan or suburban area

Name	UrbanizationCode
------	------------------

*Base XSD Type: string

URI

These field(s) use this type: SenderURI, DestinationURI, URI.

Name	URI
------	-----

Change Repair Order

*Base XSD Type: anyURI

VehicleArrivalDate

These field(s) use this type: VehicleArrivalDate,VehicleArrivalDate.

The Date the original retail vehicle is delivered to a dealer

Name	VehicleArrivalDate
------	--------------------

*Base XSD Type: date

VehicleDemoInd

These field(s) use this type: VehicleDemoInd.

Indicates whether vehicle was ever a demo

Name	VehicleDemoInd
------	----------------

*Base XSD Type: string

Code Value	Description
0	
1	

VehicleNote

These field(s) use this type: VehicleNote.

Any vehicle related notes

Name	VehicleNote
------	-------------

*Base XSD Type: string

Change Repair Order

VehicleStock

These field(s) use this type: VehicleStock.

Dealer assigned vehicle stock number

Name	VehicleStock
------	--------------

*Base XSD Type: string

VIN

These field(s) use this type: VIN,VIN.

Federally defined 17 position vehicle identification number

Name	VIN
------	-----

*Base XSD Type: string

WarrantyAppealInd

These field(s) use this type: WarrantyAppealInd.

Warranty Appeal indicator

Name	WarrantyAppealInd
------	-------------------

*Base XSD Type: string

Code Value	Description
0	
1	

WarrantyExpirationDate

These field(s) use this type: WarrantyExpirationDate.

Change Repair Order

Last Date of vehicle warranty coverage for warranty currently in force at time of repair

Name	WarrantyExpirationDate
------	------------------------

*Base XSD Type: date

WarrantyNotes

These field(s) use this type: WarrantyNotes.

Any Warranty related Notes

Name	WarrantyNotes
------	---------------

*Base XSD Type: string

WarrantyProgramCode

These field(s) use this type: WarrantyProgramCode.

Code for manufacturer Warranty special programs

Name	WarrantyProgramCode
------	---------------------

*Base XSD Type: string

WarrantyRemaining

These field(s) use this type: WarrantyRemaining.

Defines how much warranty is left, either in time or miles

Name	WarrantyRemaining
------	-------------------

*Base XSD Type: string

WarrantyStartDate

Change Repair Order

These field(s) use this type: WarrantyStartDate.

Start Date of vehicle warranty

Name	WarrantyStartDate
------	-------------------

*Base XSD Type: date

WarrantyStatus

These field(s) use this type: WarrantyStatus.

Whether warranty is still applicable

Name	WarrantyStatus
------	----------------

*Base XSD Type: string

WarrantyTransferInd

These field(s) use this type: WarrantyTransferInd.

Indicates if warranty is transferable

Name	WarrantyTransferInd
------	---------------------

*Base XSD Type: string

Code Value	Description
------------	-------------

0	
---	--

1	
---	--

Year

Year

Name	Year
------	------

Change Repair Order

*Base XSD Type: gYear

ZoneCode

These field(s) use this type: ZoneCode.

Manufacturer Assigned Zone Code

Name	ZoneCode
------	----------

*Base XSD Type: string

Fields and Global Attributes

Global declarations are items such as elements, attribute groups, and group definitions. These items are not defined within any particular component. A component may reference these definitions. Within a STAR XML Schemas these are typically known as global fields.

ApplicationArea

These field(s) use this type: ApplicationArea.

Provides the information that an application may need to know in order to communicate in an integration of two or more business applications. The ApplicationArea is used at the applications layer of communication. While the integration frameworks web services and middleware provide the communication layer that OAGIS operates on top of.

Provides the information that an application may need to know in order to communicate in an integration of two or more business applications. The ApplicationArea is used at the applications layer of communication. While the integration frameworks web services and middleware provide the communication layer that OAGIS operates on top of.

Name	ApplicationArea
Type	ApplicationArea
Nillable	no
Abstract	no

XML Instance Representation

```
<ApplicationArea>
  <Sender> Sender </Sender> [1]
  <CreationDateTime> DateTime </CreationDateTime> [1]
  <Signature> Signature </Signature> [0..1]
  <BODId> Code </BODId> [0..1]
  <Destination> Destination </Destination> [1]
</ApplicationArea>
```

Change

These field(s) use this type: Change.

Change Repair Order

The Change verb is used when the sender of the BOD is not the owner of the data, but is sending a request for the document to be changed. An example of this is Change REQUISITN, where the original document needs to be changed based on a specific business event.

Name	Change
Type	Change
Nilable	no
Abstract	no

XML Instance Representation

```
<Change  
confirm="ConfirmType [0..1]"/>
```

ChangeRepairOrder

These field(s) use this type: **ChangeRepairOrder**.

Name	ChangeRepairOrder
Type	ChangeRepairOrder
Nilable	no
Abstract	no

XML Instance Representation

```
<ChangeRepairOrder  
revision="Text [0..1]"  
release="8.1-Lite [0..1]"  
environment="Text [0..1]"  
lang="Language [0..1]"  
bodVersion="Text [0..1]">  
  <ApplicationArea> ... </ApplicationArea> [1]  
  <DataArea> ChangeRepairOrderDataArea </DataArea> [1]  
</ChangeRepairOrder>
```

Change Repair Order

Header

Name	Header
Type	RepairOrderHeader
Nilable	no
Abstract	no

XML Instance Representation

```
<Header>
  <DocumentDateTime> DocumentDateTime </DocumentDateTime> [0..1]
  <SecondaryPassword> SecondaryPassword </SecondaryPassword> [0..1]
  <SecondaryDealerNumber> SecondaryDealerNumber </SecondaryDealerNumber> [0..1]
  <DocumentId> DocumentId </DocumentId> [1]
  <SecondaryReferenceNumber> SecondaryReferenceNumber </SecondaryReferenceNumber> [0..1]
  <Dealer> ROServiceDealerParty </Dealer> [0..1]
  <IndividualOwner> IndividualOwnerPartyExtendedRO </IndividualOwner> [0..1]
  <OrganizationalOwner> OrganizationalOwnerPartyExtendedRO </OrganizationalOwner> [0..1]
  <IndividualCo-Owner> IndividualOwnerPartyExtendedRO </IndividualCo-Owner> [0..1]
  <OrganizationalCo-Owner> OrganizationalOwnerPartyExtendedRO </OrganizationalCo-Owner> [0..1]
  <PrimaryDriver> IndividualOwnerPartyExtendedRO </PrimaryDriver> [0..1]
  <SecondaryDriver> IndividualOwnerPartyExtendedRO </SecondaryDriver> [0..*]
  <Vehicle> ServiceVehicle </Vehicle> [0..1]
  <Warranty> WarrantyAdditional </Warranty> [0..*]
  <ServiceContract> FullServiceContract </ServiceContract> [0..*]
  <CASE> CASE </CASE> [0..*]
  <RepairOrderOpenedDate> RepairOrderOpenedDate </RepairOrderOpenedDate> [0..1]
  <RepairOrderCompletedDate> RepairOrderCompletedDate </RepairOrderCompletedDate> [0..1]
  <RepairOrderInvoiceDate> RepairOrderInvoiceDate </RepairOrderInvoiceDate> [0..1]
  <ServiceAdvisor> ServiceAdvisor </ServiceAdvisor> [0..1]
  <MileageIn> MileageIn </MileageIn> [0..1]
  <MileageOut> MileageOut </MileageOut> [0..1]
  <OrderNotes> OrderNotes </OrderNotes> [0..1]
  <OrderInternalNotes> OrderInternalNotes </OrderInternalNotes> [0..1]
  <DepartmentType> DepartmentType </DepartmentType> [0..1]
</Header>
```


Change Repair Order

```
<RentLoaner> RentLoaner </RentLoaner> [0..*]  
<ServiceComponents> ServiceComponents </ServiceComponents> [0..*]  
<Sublet> Sublet </Sublet> [0..*]  
<LaborRate> LaborRate </LaborRate> [0..1]  
<Price> Price </Price> [0..3]  
<Tax> Tax </Tax> [0..*]  
<DataCollectionStatus> DataCollectionStatus </DataCollectionStatus> [0..1]  
<ESCFranchiseInd> ESCFranchiseInd </ESCFranchiseInd> [0..1]  
<Splits> Splits </Splits> [0..1]  
<TreadActInd> TreadActInd </TreadActInd> [0..1]  
<LocationId> LocationId </LocationId> [0..1]  
<RepairOrderStatus> ServiceContractStatus </RepairOrderStatus> [0..*]  
</Header>
```

InternalPay

These field(s) use this type: **InternalPay**.

Name	InternalPay
Type	InternalPay
Nilable	no
Abstract	no

XML Instance Representation

```
<InternalPay>  
  <DepartmentType> DepartmentType </DepartmentType> [0..*]  
  <DepartmentDescription> DepartmentDescription </DepartmentDescription> [0..1]  
  <DataCollectionStatus> DataCollectionStatus </DataCollectionStatus> [0..1]  
  <CodesAndComments> CodesAndCommentsExpanded </CodesAndComments> [0..1]  
  <Splits> Splits </Splits> [0..1]  
  <RentLoaner> RentLoaner </RentLoaner> [0..*]  
  <ServiceComponents> ServiceComponents </ServiceComponents> [0..*]  
  <Transportation> Transportation </Transportation> [0..*]  
  <Sublet> Sublet </Sublet> [0..*]  
</InternalPay>
```

Change Repair Order

```
<Job> Job </Job> [0..*]  
<JobReferback> JobReferback </JobReferback> [0..*]  
</InternalPay>
```

Job

These field(s) use this type: **Job,Job,Job**.

Name	Job
Type	Job
Nilable	no
Abstract	no

XML Instance Representation

```
<Job>  
  <JobNumber> JobNumber </JobNumber> [1]  
  <OperationId> OperationId </OperationId> [1]  
  <OperationName> OperationName </OperationName> [1]  
  <CodesAndComments> CodesAndCommentsExpanded </CodesAndComments> [1]  
  <Diagnostics> Diagnostics </Diagnostics> [1..*]  
  <ServiceParts> ServiceParts </ServiceParts> [0..*]  
  <ServiceLabor> ServiceLabor </ServiceLabor> [0..*]  
  <CASE> CASE </CASE> [0..*]  
  <WarrantyClaim> WarrantyClaim </WarrantyClaim> [0..*]  
  <HazmatInd> HazmatInd </HazmatInd> [0..1]  
  <Language> Language </Language> [0..1]  
  <AddOnRepairInd> AddOnRepairInd </AddOnRepairInd> [0..1]  
  <JobLaborRate> JobLaborRate </JobLaborRate> [0..1]  
  <Price> Price </Price> [0..*]  
  <LaborAllowanceHours> LaborAllowanceHours </LaborAllowanceHours> [0..1]  
  <LaborActualHours> LaborActualHours </LaborActualHours> [1]  
  <JobGoodwillInd> JobGoodwillInd </JobGoodwillInd> [0..1]  
  <RepeatRepairInd> RepeatRepairInd </RepeatRepairInd> [0..1]  
  <JobStatus> JobStatus </JobStatus> [0..1]
```

Change Repair Order

```
<JobType> JobType </JobType> [0..1]
<ListNumber> ListNumber </ListNumber> [0..1]
<OriginCode> OriginCode </OriginCode> [0..1]
<RentLoaner> RentLoaner </RentLoaner> [0..*]
<ServiceCampaign> ServiceCampaign </ServiceCampaign> [0..*]
<Coupon> Coupon </Coupon> [0..*]
<Technician> ServiceTechnician </Technician> [1..*]
<ServiceComponents> ServiceComponents </ServiceComponents> [0..*]
<Splits> Splits </Splits> [0..*]
<Transportation> Transportation </Transportation> [0..*]
<Tax> Tax </Tax> [0..*]
<TowedInInd> TowedInInd </TowedInInd> [0..1]
<PackageCode> PackageCode </PackageCode> [0..1]
<TreadActInd> TreadActInd </TreadActInd> [0..1]
<Goodwill> Goodwill </Goodwill> [0..1]
</Job>
```

JobReferback

These field(s) use this type: **JobReferback,JobReferback,JobReferback.**

Name	JobReferback
Type	JobReferback
Niltable	no
Abstract	no

XML Instance Representation

```
<JobReferback>
  <JobReferbackNumber> JobReferbackNumber </JobReferbackNumber> [0..1]
</JobReferback>
```

RepairOrder

These field(s) use this type: **RepairOrder.**

Change Repair Order

Name	RepairOrder
Type	RepairOrder
Niltable	no
Abstract	no

XML Instance Representation

```
<RepairOrder>
  <Header> ... </Header> [1]
  <Job> ... </Job> [0..*]
  <JobReferback> ... </JobReferback> [0..*]
  <WarrantyClaim> ... </WarrantyClaim> [0..*]
  <InternalPay> ... </InternalPay> [0..*]
</RepairOrder>
```

Verb

These field(s) use this type: Verb.

Name	Verb
Type	Verb
Niltable	no
Abstract	yes

XML Instance Representation

```
<Verb/>
```

WarrantyClaim

These field(s) use this type: WarrantyClaim,WarrantyClaim.

Name	WarrantyClaim
-------------	---------------

Change Repair Order

Type	WarrantyClaim
Niltable	no
Abstract	no

XML Instance Representation

```
<WarrantyClaim>
  <ClaimNumber> ClaimNumber </ClaimNumber> [0..1]
  <ClaimType> ClaimType </ClaimType> [0..1]
  <OEMClaimNumber> OEMClaimNumber </OEMClaimNumber> [0..1]
  <ExternalReferenceNumber> ExternalReferenceNumber </ExternalReferenceNumber> [0..1]
  <FreightClaimNumber> FreightClaimNumber </FreightClaimNumber> [0..1]
  <AccessoryClaimType> AccessoryClaimType </AccessoryClaimType> [0..1]
  <DefectCode> DefectCode </DefectCode> [0..1]
  <ItemId> ItemId </ItemId> [0..1]
  <PartType> PartType </PartType> [0..1]
  <SparePartDate> SparePartDate </SparePartDate> [0..1]
  <SparePartInvoiceNumber> SparePartInvoiceNumber </SparePartInvoiceNumber> [0..1]
  <SparePartMileage> SparePartMileage </SparePartMileage> [0..1]
  <WarrantyAppealInd> WarrantyAppealInd </WarrantyAppealInd> [0..1]
  <ServiceCampaign> ServiceCampaignExtended </ServiceCampaign> [0..*]
  <CodesAndComments> CodesAndComments </CodesAndComments> [0..1]
  <PartDealerNumer> PartDealerNumer </PartDealerNumer> [0..1]
  <PartDealerName> PartDealerName </PartDealerName> [0..1]
  <DealerInstallationInd> DealerInstallationInd </DealerInstallationInd> [0..1]
  <BatteryProration> BatteryProration </BatteryProration> [0..1]
  <OEMVehicleInd> OEMVehicleInd </OEMVehicleInd> [0..1]
  <WarrantyProgramCode> WarrantyProgramCode </WarrantyProgramCode> [0..1]
  <ClaimCategory> ClaimCategory </ClaimCategory> [0..1]
  <AuthorizationNumber> AuthorizationNumber </AuthorizationNumber> [0..1]
  <AuthorizationCode> AuthorizationCode </AuthorizationCode> [0..1]
  <AuthorizationPayMaximum> AuthorizationPayMaximum </AuthorizationPayMaximum> [0..1]
  <AuthorizationPayPercent> AuthorizationPayPercent </AuthorizationPayPercent> [0..1]
  <AuthorizationPayType> AuthorizationPayType </AuthorizationPayType> [0..1]
  <Price> Price </Price> [0..*]
  <Tax> Tax </Tax> [0..*]
```

Change Repair Order

```
<AppealReasonCode> AppealReasonCode </AppealReasonCode> [0..1]
<ManualReviewCode> ManualReviewCode </ManualReviewCode> [0..1]
<SubDealerNumber> SubDealerNumber </SubDealerNumber> [0..1]
<DataCollectionStatus> DataCollectionStatus </DataCollectionStatus> [0..1]
<ClaimSubmissionCount> ClaimSubmissionCount </ClaimSubmissionCount> [0..1]
<OriginalRepairOrderNumber> OriginalRepairOrderNumber </OriginalRepairOrderNumber> [0..1]
<Splits> Splits </Splits> [0..1]
<RentLoaner> RentLoaner </RentLoaner> [0..*]
<ServiceComponents> ServiceComponents </ServiceComponents> [0..*]
<Transportation> Transportation </Transportation> [0..*]
<Sublet> Sublet </Sublet> [0..*]
<Job> Job </Job> [0..*]
<JobReferback> JobReferback </JobReferback> [0..*]
<WarrantyClaimDeductible> WarrantyClaimDeductible </WarrantyClaimDeductible> [0..*]
<PriorClaimNumber> PriorClaimNumber </PriorClaimNumber> [0..1]
<ClaimContinuationCode> ClaimContinuationCode </ClaimContinuationCode> [0..1]
<TreadActInd> TreadActInd </TreadActInd> [0..1]
<LaborOperationId> LaborOperationId </LaborOperationId> [0..1]
</WarrantyClaim>
```

Change Repair Order
