

**MANHEIM RECONDITIONING API
INDUSTRY INTERNAL USE
ADDITIONAL TERMS**

The terms and conditions set forth in these Additional Terms are in addition to the terms and conditions set forth in the Master Data License (<https://www.coxautoinc.com/terms/wp-content/uploads/sites/3/Master-Data-License-Agreement.pdf>), and apply with respect to the Licensed Data covered by this Additional Terms. Capitalized terms used, but not otherwise defined, herein shall have the meanings given to them in the Master Data License. For the purposes of these Additional Terms, Manheim Remarketing, Inc., an Affiliate of Cox Automotive, Inc. shall be considered “CAI” and any reference to “Manheim” shall be deemed a reference to CAI for the purposes of the Master Data License.

Product Descriptions: The Reconditioning API is a Cox Automotive Product that Licensee can use to obtain certain reconditioning information performed for Licensee’s vehicles onsite on an Auction property by a Manheim employee or affiliate.

Additional Terms and Conditions:

1. Definitions.

- (a) **“API”** means an application program interface.
- (b) **“Auction”** means a wholesale motor vehicle auction conducted by Manheim or its Affiliates.
- (c) **“Licensed Data”** means, for the purposes of this Additional Terms, unless otherwise specified in a schedule attached hereto, the specific data elements comprising the “Licensed Data” (a) will be the reconditioning-related data for Licensee’s vehicles reconditioned onsite at Manheim Auction properties directly related to the Dealer Number for Licensee as set forth in Exhibit ”A” (or such successor URL as Manheim may establish from time to time in its discretion), and (ii) may be modified by Manheim at any time in its discretion.

2. Delivery. The Licensed Data will be made available to Licensee via an application program interface (API), or such other reasonable electronic transmittal channel as Manheim may designate to Licensee from time to time, in its discretion, during the License Term.

3. Permitted Use. Unless otherwise provided for in any Order Form, the only Permitted Use of the Licensed Data described in Section 1 above will be the use of such Licensed Data by Licensee to inform planning, repair estimate approval, and the status of reconditioning for Licensee’s vehicles (and for no other purpose).

Exhibit A

Overview

Recon API Management

The **Recondition APIs** allow consumers to manage their Manheim recondition services, through an API for each of the following key data objects:

- **Recon Inventory**, which are vehicles represented in Manheim Recon order inventory for a consumer at a Manheim reconditioning facility.
- **Recon Order**, which are vehicles services as part of Recon order for a seller at a Manheim reconditioning facility.
- **Repair Order Services**, which are vehicles represented as a part of recon order services at a Manheim reconditioning facility.

API consumers may retrieve any of the data objects. In addition to providing API's for these data objects, Manheim publishes related outbound event messages, which can be accessed through the [Events & Subscriptions API](#).

Details for managing each data object and examples of related event messages are found on the page dedicated to that object's API.

- **Recon Inventory**, which allows users to view details about their vehicle inventory at a Manheim reconditioning facility.
- **Recon Order**, allows users to view details about their vehicles order at a Manheim reconditioning facility .
- **Repair Order Services**, allows users to view line-item details about their vehicles order at a Manheim reconditioning facility.

/orders/recon/inventory

Inventory

The **inventory** API allows users to view details about their vehicle inventory at a Manheim reconditioning facility. This API can be used to receive information on vehicle description, auction location, lot location, and repair orders associated on a vehicle. Details for the API are provided below.

Release Notes

June 2021 - API introduced for consumer use to receive events for estimate and approve recon stages.

URLs and Environment

The base URL for the Inventory API is `/orders/recon/inventory`. This document describes each API endpoint starting with this base URL.

Actual requests will require the protocol and host URL for one of the Manheim environments:

- QA: <https://integration1.api.manheim.com>
- Pre-Production: <https://uat.api.manheim.com>
- Production: <https://api.manheim.com>

See [API Access and Environments](#) for more information about Manheim API environments.

Events

Manheim creates an Inventory object when a vehicle workorder has been created and moves from the Estimate / Part Estimate stage to Approval stage. This generates a ORDERS.RECON.ESTIMATED event.

Manheim creates an Inventory object when a vehicle workorder has been created and moves from the Approve stage to Repairs/Parts stage. This generates a ORDERS.RECON.APPROVED event.

You can subscribe to these [events](#) through the [Subscriptions API](#).

Retrieve Inventory

End Point

GET `/orders/recon/inventory/id/ID`

In the URL, the "ID" placeholder should be replaced by the ID that Manheim assigned to the Inventory.

Description

This API allows a user to retrieve Inventory based on the Manheim Inventory ID.

Common Return Codes

Common Response Codes

Response Code	Response Message	Possible Next Actions
200 OK	Information about the Inventory is returned	Successful response; no actions necessary
400 Not Found	API call does not match the required format	The server could not understand the request due to invalid syntax
401 Unauthorized	Valid authentication credentials required for accessing the resource	API token may be malformed, or the user does not have access; check the token or contact us for API access
403 Forbidden	The caller is attempting an action that they are not allowed to perform.	Action requested not allowed
404 Not Found	Web page does not exist	If the message is blank, Inventory ID may be malformed or does not exist; if the message contains an HTML body, the URL may be malformed; check and resubmit

Attributes for a Successful API Response

This API only requires the Inventory ID in the URL.

Field	Type	Description
referenceID	-	
workOrderNumber	String	Manheim work order number
clientReferenceID	String	URL with information about the unit associated to the Inventory
Owner	-	
manheimAccountNumber	Number	Manheim assigned dealer / customer number
companyName	String	Dealer/Customer Name
vehicleDescription	-	
VIN	String	Vehicle Identification Number
modelYear	String	Model year of the vehicle.
make	String	Make of the vehicle
model	String	Model of the vehicle
trim	String	Trim of the vehicle.

exteriorColor	String	Vehicle exterior color
auctionLocation	-	
locationCode	String	
lotLocation	Number	
operationLocation	-	
href	string	URL of information about the auction using the Locations API
Orders	-	URL with information about the pickup order associated with the Inventory (always returns regardless if any pickup orders exist)
reconOrder	-	Contains information about the capture order associated with the Inventory (only returns if a capture order exists)
href	String	URL of Repair order associated with this inventory
orders.condition	-	Contains information about the condition order associated with the Inventory (only returns if a condition order exists)
orders.condition.href	String	URL with information about the condition order associated with the Inventory
orders.imaging	-	Contains information about the imaging order associated with the Inventory (only returns if an imaging order exists)
orders.imaging.href	String	URL with information about the imaging order associated with the Inventory
offerings	-	Contains a block of information regarding offerings related to a Inventory
offerings.href	String	URL with information about a Inventory on the Offerings API (always returns regardless if any offerings exist)
notes	-	Contains a block of information about Inventory notes
notes.href	String	URL of notes information concerning a Inventory on the Notes API (always returns regardless if any notes exist)
transportations	-	Contains a block of information about various transportation requests (always returns regardless if any transportation requests exist)
transportations.inbound	-	Contains a block of information about inbound transportation requests, such as customer dropoffs
transportations.inbound.dropoff	-	Contains a block of information about an inbound customer dropoff of a vehicle to an auction
transportations.inbound.dropoff.href	String	URL for the inbound customer dropoffs related to a Inventory

Example JSON Request

GET <https://api.manheim.com/orders/inventory/id/MTMwOTYzMTkjUUxNMQ==>

Example JSON Response

The following example shows a response for a Inventory with a category code and capture, condition, and imaging orders.

```
{
  "href": "https://api.manheim.com/orders/inventory/id/MTMwOTYzMTkjUUxNMQ==",
  "referenceId": {
    "workOrderNumber": 5678989,
    "clientReferenceID": "qtb9ybwpcpp5rkuw63jvs67e"
  },
}
```

```
"owner": {
  "manheimAccountNumber": 4789997,
  "companyName": "RMKTG BY CAR LSG FLEET SALES"
},
"vehicleDescription": {
  "VIN": "4S3BH686817675763",
  "modelYear": 2017,
  "make": "FORD",
  "model": "EcoSport",
  "mileage": 123456,
  "trim": "base",
  "exteriorColor": "blue"
},
"auctionLocation": {
  "locationCode": "AAA1",
  "lotLocation": 101,
  "operatingLocation": {
    "href": "https://integration1.api.manheim.com/locations/id/AAA1"
  }
},
"orders": {
  "reconOrder": {
    "href": "https://integration1.api.manheim.com/orders/recon/id/MTMwOTYzMTg1UUxNMQ=="
  }
}
}
```

/orders/recon/order

Order

The **order** API allows users to view details about their vehicles order at a Manheim reconditioning facility. This API can be used to receive information on key dates related to the vehicle and total work-order estimated and approved amounts.

Release Notes

June 2021 - API introduced for consumer use to receive events for estimate and approve recon stages.

URLs and Environment

The base URL for the Order API is `/orders/recon/order`. This document describes each API endpoint starting with this base URL.

Actual requests will require the protocol and host URL for one of the Manheim environments:

- QA: <https://integration1.api.manheim.com>
- Pre-Production: <https://uat.api.manheim.com>
- Production: <https://api.manheim.com>

See [API Access and Environments](#) for more information about Manheim API environments.

Events

Manheim creates an Order object when a vehicle workorder has been created and moves from the Estimate / Part Estimate stage to Approval stage. This generates a ORDERS.RECON.ESTIMATED event.

Manheim creates an Order object when a vehicle workorder has been created and moves from the Approve stage to Repairs/Parts stage. This generates a ORDERS.RECON.APPROVED event.

You can subscribe to these [events](#) through the [Subscriptions API](#).

Retrieve Order

End Point

GET /orders/recon/id/ID

In the URL, the "ID" placeholder should be replaced by the ID that Manheim assigned to the Order.

Description

This API allows a user to retrieve Order summary based on the Manheim Order ID.

Common Return Codes

Common Response Codes

Response Code	Response Message	Possible Next Actions
200 OK	Information about the Order is returned	Successful response; no actions necessary
400 Not Found	API call does not match the required format	The server could not understand the request due to invalid syntax
401 Unauthorized	Valid authentication credentials required for accessing the resource	API token may be malformed, or the user does not have access; check the token or contact us for API access
403 Forbidden	The caller is attempting an action that they are not allowed to perform.	Action requested not allowed
404 Not Found	Web page does not exist	If the message is blank, Order ID may be malformed or does not exist; if the message contains an HTML body, the URL may be malformed; check and resubmit

Attributes for a Successful API Response

This API only requires the Order ID in the URL.

Field	Type	Description
href	String	Reference ID
inventory	-	
Inventory.href	String	Endpoints associated with reconditioning order information for inventory at the auction
vin	String	Vehicle Identification Number (vin)

orderDates	-	
checkIn	String	Checked in date and time
repairStartDate	String	Vehicle repair start date and time
repairEndDate	String	Vehicle repair end date and time
storageStartDate	String	Vehicle storage start date and time
storageEndDate	String	Vehicle storage end date and time
checkOut	String	Date the vehicle was checked out from the physical auction
conditionReport	-	Condition report details
grade	String	Grade of vehicle in condition report
URL	String	The URL of the vehicle Condition Report <i>example:</i> https://api.manheim.com/orders/condition/id/15752542
completedTimestamp	String	The time when this condition report was completed at the auction
status	-	
bizStatus	String	The repair order status e.g.: Estimated, Approved
activeTask	String	The current task of a work order in RPP
estimates	-	Repair Order estimate details
amount	-	
EstimatedFeeDetails	-	
reconFee	number	Estimated Recon fee amount
labor	number	Estimated labor Amount
parts	number	Estimated parts Amount
total	number	Total estimated Amount
completeTimestamp	String	Date the recon order was last estimated
orders.imaging.href	String	URL with information about the imaging order associated with the Order
approvals	-	Repair Order approved details
amount	-	
ApprovedFeeDetails	-	
reconFee	number	Approved Recon fee amount
labor	number	Approved labor Amount
parts	number	Approved parts Amount
total	number	Total Approved Amount
approverUserName	String	The recon order approver user Name
completeTimestamp	String	Date the recon order was last approved
measurement	-	The block containing the list of the measurement taken during the Inspection
measurementName	String	Name of the measurement taken during the Inspection like battery / brakeShoesPads / tires / rotors / drums etc
measurements	-	The block containing the list of measurement values
measurementunit	-	
key	String	The key for the measurement e.g. for measurement Name 'tire', key will be 'lf', 'rf' etc.
value	String	The value of the measurement
unit	String	The unit for the measurement value e.g. volt, mm, inch etc.
services	-	
service	-	
href	String	<i>example:</i> https://api.manheim.com/orders/recon/services/id/MTMwOTYzMtKjUUxNMQ==

Example JSON Request

GET <https://integration1.api.manheim.com/orders/recon/id/5678989>

Example JSON Response

The following example shows a response for an Order with a category code and capture, condition, and imaging orders.

```
{
  "href": "https://api.manheim.com/orders/recon/id/MTMwOTYzMTkjUUxNMQ==",
  "inventory": {
    "inventory.href": "https://api.manheim.com/orders/recon/inventory/id/SHMwOTYzMTkjUUxNMQ==",
    "vin": "1FTFW1ET7CFC19542"
  },
  "orderDates": {
    "checkIn": "2013-07-30T12:20:08Z",
    "repairStartDate": "2013-07-30T12:20:08Z",
    "repairEndDate": "2013-07-30T12:20:08Z",
    "storageStartDate": "2013-07-30T12:20:08Z",
    "storageEndDate": "2013-07-30T12:20:08Z",
    "checkOut": "2013-07-30T12:20:08Z"
  },
  "conditionReport": {
    "grade": "4.5",
    "URL": "https://api.manheim.com/orders/condition/id/15752542",
    "completedTimestamp": "2013-07-40T12:20:08Z"
  },
  "status": {
    "bizStatus": "Estimated",
    "activeTask": "Repair, QC, Audit, Parts, etc"
  },
  "estimates": {
    "amount": {
      "reconFee": 123.45,

```

```
    "labor": 100,
    "parts": 51.26,
    "total": 274.71
  },
  "completeTimestamp": "2013-07-30T12:20:08Z"
},
"approvals": {
  "amount": {
    "reconFee": 123.45,
    "labor": 100,
    "parts": 51.26,
    "total": 274.71
  },
  "approverUserName": "John",
  "completeTimestamp": "2013-07-30T12:20:08Z"
},
"measurement": [
  {
    "measurementName": "Drum",
    "measurements": [
      {
        "key": "lf",
        "value": ".86",
        "unit": "mm"
      }
    ]
  }
],
"services": {
```

```
"href": "https://api.manheim.com/orders/recon/services/id/MTMwOTYzMTkjUUxNMQ=="  
}  
}
```

/orders/recon/services

Order Services

The **order services** API allows users to view details about their vehicles order at a Manheim reconditioning facility. This API can be used to receive information on vehicle damage descriptions and associated estimated and approved repairs.

Release Notes

June 2021 - API introduced for consumer use to receive events for estimate and approve recon stages.

URLs and Environment

The base URL for the Order API is `/orders/recon/order/services`. This document describes each API endpoint starting with this base URL.

Actual requests will require the protocol and host URL for one of the Manheim environments:

- QA: <https://integration1.api.manheim.com>
- Pre-Production: <https://uat.api.manheim.com>
- Production: <https://api.manheim.com>

See [API Access and Environments](#) for more information about Manheim API environments.

Events

Manheim creates an Order object when a vehicle workorder has been created and moves from the Estimate / Part Estimate stage to Approval stage. This generates a ORDERS.RECON.ESTIMATED event.

Manheim creates an Order object when a vehicle workorder has been created and moves from the Approve stage to Repairs/Parts stage. This generates a ORDERS.RECON.APPROVED event.

You can subscribe to these [events](#) through the [Subscriptions API](#).

Retrieve Order Services

End Point

GET /orders/recon/services/id/ID

In the URL, the "ID" placeholder should be replaced by the ID that Manheim assigned to the Order.

Description

Repair Order Services, which allows Manheim Recon customers to view their vehicle inventory at a Manheim reconditioning facility.

Common Return Codes

Common Response Codes

Response Code	Response Message	Possible Next Actions
200 OK	Information about the Order is returned	Successful response; no actions necessary
400 Not Found	API call does not match the required format	The server could not understand the request due to invalid syntax

401 Unauthorized	Valid authentication credentials required for accessing the resource	API token may be malformed, or the user does not have access; check the token or contact us for API access
403 Forbidden	The caller is attempting an action	Action requested not allowed that they are not allowed to perform.
404 Not Found	Web page does not exist	If the message is blank, Order ID may be malformed or does not exist; if the message contains an HTML body, the URL may be malformed; check and resubmit

Attributes for a Successful API Response

This API only requires the Order ID in the URL.

Field	Type	Description
href	String	Repair Order href
repairOrderHref	String	URL for the parent resource /orders/recon
services	-	Endpoints associated with reconditioning order information for inventory at the auction
service	-	
serviceDetails	-	Contains a block of information regarding service(s) for the recon orders
serviceType	String	Type of service – Fee, Parts or Labor
serviceId	String	Unique ID for Service
productId	String	PPE product id
productName	String	PPE product name
estimatedItemId	String	Labor and Part items for single estimate item ID
inspectionItemName	String	The name of the inspection item for an estimated item from RPP
inspectionItemType	String	Inspection category for this damage line
itemCode	Integer	Item Code that identifies the part of the vehicle damaged – Manheim ART Taxonomy – Item Code
itemDesc	String	Description of the damage Item specified in the itemCode field
subItemCode	String	Sub Item Code that further defines the damaged area– Manheim ART Taxonomy – Sub-Item Code
damageCode	String	Damage Code that identifies type of damage – Manheim ART Taxonomy – Damage Code
damageDesc	String	Description of the damage specified in the damageCode field
severityCode	String	Severity Code that defines the severity of the damage– Manheim ART Taxonomy – Severity Code
severityDesc	String	Description of the severity specified in the severityCode field
actionDesc	String	Description identifying the reconditioning action– Manheim ART Taxonomy – Action Code
actionCode	String	Action Code that identifies the reconditioning action– Manheim ART Taxonomy – Action Code
laborHours	Number	The estimated labor hours for this service item
estimateAmount	Number	The estimated amount for this service item
approvedAmount	Number	The approved amount for this service item
currency	String	The currency of the amount fields
partVendor	String	The part vendor/supplier for the part item
partNumber	String	vendor that supplied parts number
approvedFlag	Number	Indicator if an estimate item has been approved or not
shopCode	String	Code that identifies the type of shop that would perform the reconditioning, for example 'BODY'

shopName	String	Description of the reconditioning shop specified in the shopCode field
status	String	Service line item status like Inspected, Estimated, Approved, Repaired etc.
InspectedTimestamp	String	Inspection completion timestamp for this service line item
estimatedTimestamp	String	Estimate completion timestamp for this service line item
approvedTimestamp	String	Approval completion timestamp for this service line item
fulfilledTimestamp	String	Fulfilled / repaired timestamp for this service line item
qcTimestamp	String	QC completion timestamp for this service line item

Example JSON Request

GET <https://integration1.api.manheim.com/orders/recon/services/id/5678989>

Example JSON Response

The following example shows a response for an Order with a category code and capture, condition, and imaging orders.

```
{
  "href":
  "https://api.manheim.com/orders/order/recon/services/id/MSSHwOTYzMTkjUUxNMQ==",
  "repairOrderHref": "https://api.manheim.com/orders/recon/id/MTMwOTYzMTkjUUxNMQ==",
  "services": [
    {
      "serviceType": "UCFIN",
      "serviceId": "string",
      "productId": 8,
      "productName": "Reattach Fabric",
      "estimatedItemId": "string",
      "inspectionItemName": "Replace Battery",
      "inspectionItemType": "MECH",
      "itemCode": 8087,
      "itemDesc": "string",
      "subItemCode": 2,
      "damageCode": "VA",
      "damageDesc": "Deluxe/Front Line Ready",
      "severityCode": "M1",
      "severityDesc": "Replacement Required",
    }
  ]
}
```

```
"actionDesc": "Description of the action specified in the actionCode field",
"actionCode": "string",
"laborHours": 2,
"estimateAmount": 0,
"approvedAmount": 0,
"currency": "string",
"partVendor": "Carquest",
"partNumber": "56789",
"approvedFlag": "Y",
"shopCode": "MECH",
"shopName": "MECHANICAL",
"status": "Follow Up",
"InspectedTimestamp": "2013-07-30T12:20:08Z",
"estimatedTimestamp": "2013-07-30T12:20:08Z",
"approvedTimestamp": "2013-07-30T12:20:08Z",
"fulfilledTimestamp": "2013-07-30T12:20:08Z",
"qcTimestamp": "2013-07-30T12:20:08Z"
}
]
}
```