



**Repair Order Parts Insert
Predefined Integration Package (PIP) v1.0
Product Guide**

**Document Version 1.1
October 2011**

**ADP, Inc. Dealer Services Group / 1950 Hassell Road / Hoffman Estates, IL 60169-6308
adpdealerservices.com / 888.424.6342**

©2011 ADP, Inc - Dealer Services Group
ADP and the ADP Logo are registered trademarks of ADP, Inc.

Repair Order Parts Insert PIP	Product Version: 1.0
Product Guide	Date: 10/31/2011

Release Highlights

Date	Description of Key Product Changes
10/2011	Initial Release

Repair Order Parts Insert PIP	Product Version: 1.0
Product Guide	Date: 10/31/2011

Table of Contents

1. Introduction	4
1.1 Overview	4
1.2 Definitions, Terms and Abbreviations.....	4
1.3 Using this Guide	4
2. Repair Order Parts Functions.....	4
2.1 Methods	4
2.1.1 Inserting Repair Order Parts	4
2.1.2 Inserting Batched Repair Order Parts	4
2.2 Business Logic	5
2.2.1 Parts not on file	5
3. Field Listings.....	5
3.1 Service Repair Order Object Fields.....	5
4. XML Examples.....	7
4.1 Repair Order Parts Insert Request.....	7
4.1.1 Request XML Example	7
4.1.2 Response XML Example	8
4.2 Repair Order Parts Bulk Insert Request.....	9
4.2.1 Request XML Example	9
4.2.2 Response XML Example	10
5. Repair Order Parts Insert Error Codes	11

Repair Order Parts Insert PIP	Product Version: 1.0
Product Guide	Date: 10/31/2011

1. Introduction

1.1 Overview

The Repair Order Parts Insert PIP (Predefined Integration Package) is an integration product offering that enables third-party vendors to integrate directly and securely with the ADP DMS solutions' service area via a web service. The Repair Order Parts Insert PIP allows dealership client users to insert parts data associated with service repair orders on the DMS.

1.2 Definitions, Terms and Abbreviations

Term	Definition
DMS	Dealer Management System
PIP	Predefined Integration Package
RO	Repair Order
WSDL	Web Service Definition Language
3PA	ADP Third Party Access

1.3 Using this Guide

This product guide is intended to be used along with the *3PA Developer's Guide* and the PIP-specific WSDL. This guide contains business rules, field descriptions, and example XML, and error codes related to the Repair Order Parts Insert PIP.

2. Repair Order Parts Functions

The Repair Order Parts Insert PIP allows for the creation of new parts lines on existing Repair Orders (RO) in the DMS for quoting of parts as well as invoicing parts to an RO. The Repair Order Parts Insert PIP also contains convenience methods for batching transactions together.

2.1 Methods

The WSDL defines various methods for interacting with the Repair Order Parts Insert PIP.

2.1.1 Inserting Repair Order Parts

The Repair Order Parts Insert method allows for a new parts detail to be entered into the DMS.
WSDL Method: Insert

2.1.2 Inserting Batched Repair Order Parts

The Bulk method allows for multiple lines to be submitted to one or more ROs.
WSDL Method: InsertBulk

Each WSDL method consists of three parts: an authentication token, dealer identification, and an object. When one batches requests, additional objects are added to the request as an array. There is a limit of 50 objects per request.

WSDL Method Data Structures:

- *Insert*
 - Username/Password
 - Dealer ID
 - Parts Detail Object

Repair Order Parts Insert PIP	Product Version: 1.0
Product Guide	Date: 10/31/2011

- *InsertBulk*
 - Username/Password
 - Dealer ID
 - Detail Object
 - Detail Object
 - Detail Object

2.2 Business Logic

The following business logic applies to Repair Order Parts.

2.2.1 Parts not on file

For parts not on file, enough data to calculate a sale price should be entered or an error will be returned. Typically the data for a not on file part would be: part number, part description, source, cost, list and quantity.

3. Field Listings

The following table defines the fields from the WSDL. The Field Description column will contain notes on required fields and the Valid Values will contain additional details.

3.1 Repair Order Parts Object Fields

Field Name	Type	Length	Field Description	Valid Values
UserID	Text	15	USM User ID of the person entering the part. This is used when an override takes place. (Input only)	If used, must exist in the DMS.
LockPort	Text	20	Port number of the PICK process that holds the lock. Output only.	
LockUser	Text	20	User who currently holds the lock. Output only.	
ReturnCode	Text	4	Return code from Action performed. Output only.	0 = No error.
ErrorText	Text	80	Text of error condition encountered. Output only.	
OrderNumber	Text	10	Repair order or parts quote number.	Must be an existing repair order or parts quote.
LineCode	Text	4	Line code the part is tied to.	Required.
LineSeq	Numeric (0)	4	Access number of the LABOR-OPS item. Used when there is more than one labor operation per line code.	Defaults to one.
PartSeq	Numeric (0)	4	Access number of the PARTS item. Used when there is more than one part sold to the repair order.	Automatically set when adding.
PartNumber	Text	30	Part number.	
OrderQty	Numeric (0)	8	Quantity of parts ordered.	
SaleQty	Numeric (0)	8	Quantity of parts sold. The quantity that the customer	

Repair Order Parts Insert PIP	Product Version: 1.0
Product Guide	Date: 10/31/2011

Field Name	Type	Length	Field Description	Valid Values
			was charged for at the time the repair order was processed.	
Cost	Numeric (2)	10	Unit cost price of the part. If escalators are being used in inventory, it is the escalated cost. If price is overridden, it is not used to calculate the sale price.	
SalePrice	Numeric (2)	10	Unit sale price of the part. Calculated using multiple price escalation routines.	
CompPrice	Numeric (2)	10	Unit comp amount of the part. It comes from attribute 13 of the PART-NO. record when all of the following conditions exist as follows: The customer on this repair order qualifies for comp (attribute 40 of NAME-FILE is not null), The dealer is set up to use comp. The part is in a source that qualifies for comp (attribute 13 of source contains the comp line code.) The part has a comp amount. Note: If escalators are used in inventory, this is the escalated comp amount.	
ListPrice	Numeric (2)	10	This is the unit list price of the part. It is the escalated list if escalators are being used in Inventory. However, if it is overridden, it is not used to calculate the sale price.	
PartDesc	Text	30	This is the part number description.	
EmployeeNumber	Text	10	This is the counterperson's employee number.	
FillQty	Numeric (0)	8	Quantity of parts filled for this sale. The quantity of parts backordered for any repair order is calculated by subtracting the quantity filled from the quantity ordered.	
ServiceCharge	Numeric (2)	10	Unit service charge on a part with a return sale.	
Salesman	Text	10	Outside salesperson number.	
LineStatusDesc	Text	25	Line status description.	Required when repair order status (WIP Attr 2, sub-value 2) is P90.

Repair Order Parts Insert PIP	Product Version: 1.0
Product Guide	Date: 10/31/2011

Field Name	Type	Length	Field Description	Valid Values
Comment	Text	80	Comment which prints on the repair order following this part.	
LabelPrintQueue	Numeric (0)	2	Optional label print queue number (Input only)	Defaults to one.
OrderType	Text	1	This determines if a service invoice is updated or a parts Quote. (Input only)	"I" or "Q". Defaults to "I".
AllowPartNotOnFile	Text	1	If 1 then no error will be generated if Part is not on file, Source will be validated.	
Source	Text	10	Source. User-specified number to separate parts into different categories	
CoreSale	Numeric (2)	10	Core sale (fully escalated). Updated when the part number has a core value	
CoreCost	Numeric (2)	10	Core cost for core sales only. Not for returns.	

4. XML Examples

4.1 Repair Order Parts Insert Request

A Repair Order Parts Insert Request is used to insert a new parts line onto an existing repair order on the DMS.

4.1.1 Request XML Example

The following is an example XML document Repair Order Parts Insert Request.

```
<?xml version="1.0" encoding="UTF-8"?>
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Header/>
  <S:Body>
    <ns2:insert xmlns:ns2="http://www.dmotorworks.com/pip-repair-order-parts">
      <arg0>
        <password>PASSWORD</password>
        <username>USERNAME</username>
      </arg0>
      <arg1>
        <dealerId>TEST_DEALER</dealerId>
      </arg1>
      <arg2>
        <lockPort/>
        <lockUser/>
        <orderNumber>182433</orderNumber>
        <lineCode>A</lineCode>
        <lineSeq>1</lineSeq>
        <partNumber>25166816</partNumber>
        <orderQty>8</orderQty>
        <saleQty>8</saleQty>
      </arg2>
    </ns2:insert>
  </S:Body>
</S:Envelope>
```

Repair Order Parts Insert PIP	Product Version: 1.0
Product Guide	Date: 10/31/2011

```

    <cost>44.11</cost>
    <salePrice>66.11</salePrice>
    <compPrice>11.11</compPrice>
    <listPrice>55.11</listPrice>
    <partDesc>PartDescription</partDesc>
    <employeeNumber>8</employeeNumber>
    <fillQty>8</fillQty>
    <serviceCharge>66.11</serviceCharge>
    <lineStatusDesc>LineStatusDesc</lineStatusDesc>
    <comment>Repair Order Parts Insert</comment>
    <labelPrintQueue>9</labelPrintQueue>
    <orderType>I</orderType>
    <userID>testcrm</userID>
    <allowPartNotOnFile>N</allowPartNotOnFile>
    <source>Source</source>
    <coreSale>33.11</coreSale>
    <coreCost>22.11</coreCost>
  </arg2>
</ns2:insert>
</S:Body>
</S:Envelope>

```

4.1.2 Response XML Example

The following is an example XML document for a Repair Order Parts Insert Response.

```

<?xml version="1.0" encoding="UTF-8"?>
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:insertResponse xmlns:ns2="http://www.dmotorworks.com/pip-repair-
order-parts">
      <return>
        <code>success</code>
        <message/>
        <repairOrderParts>
          <checksum>499210</checksum>
          <lockPort/>
          <lockUser/>
          <returnCode>0</returnCode>
          <errorText>No Error</errorText>
          <orderNumber>182433</orderNumber>
          <lineCode>A</lineCode>
          <lineSeq>1</lineSeq>
          <partSeq>34</partSeq>
          <partNumber>25166816</partNumber>
          <orderQty>8</orderQty>
          <saleQty>8</saleQty>
          <cost>44.11</cost>
          <salePrice>66.11</salePrice>
          <listPrice>55.11</listPrice>
          <partDesc>PartDescription</partDesc>
          <employeeNumber>8</employeeNumber>
          <fillQty>8</fillQty>
          <serviceCharge>66.11</serviceCharge>
          <salesman/>
          <lineStatusDesc/>
          <comment>Repair Order Parts Insert</comment>
        </repairOrderParts>
      </return>
    </ns2:insertResponse>
  </S:Body>
</S:Envelope>

```


Repair Order Parts Insert PIP	Product Version: 1.0
Product Guide	Date: 10/31/2011

```

        <allowPartNotOnFile>N</allowPartNotOnFile>
        <source>Source</source>
        <coreSale>33.11</coreSale>
        <coreCost>22.11</coreCost>
    </repairOrderParts>
</return>
</ns2:insertResponse>
</S:Body>
</S:Envelope>

```

4.2 Repair Order Parts Bulk Insert Request

A Repair Order Parts Insert Request is used to insert multiple parts lines onto existing repair orders on the DMS.

4.2.1 Request XML Example

The following is an example XML document Repair Order Parts Insert Bulk Request.

```

<?xml version="1.0" encoding="UTF-8"?>
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Header/>
  <S:Body>
    <ns2:insertBulk xmlns:ns2="http://www.dmotorworks.com/pip-repair-order-
parts">
      <arg0>
        <password>PASSWORD</password>
        <username>USERNAME</username>
      </arg0>
      <arg1>
        <dealerId>TEST_DEALER</dealerId>
      </arg1>
      <arg2>
        <lockPort/>
        <lockUser/>
        <orderNumber>182739</orderNumber>
        <lineCode>A</lineCode>
        <lineSeq>1</lineSeq>
        <partNumber>25166816</partNumber>
        <orderQty>8</orderQty>
        <saleQty>8</saleQty>
        <cost>44.11</cost>
        <salePrice>66.11</salePrice>
        <compPrice>11.11</compPrice>
        <listPrice>55.11</listPrice>
        <partDesc>PartDescription</partDesc>
        <employeeNumber>8</employeeNumber>
        <fillQty>8</fillQty>
        <serviceCharge>66.11</serviceCharge>
        <lineStatusDesc>LineStatusDesc</lineStatusDesc>
        <comment>Repair Order Parts Insert</comment>
        <labelPrintQueue>9</labelPrintQueue>
        <orderType>I</orderType>
        <userID>testcrm</userID>
        <allowPartNotOnFile>N</allowPartNotOnFile>
        <source>Source</source>
        <coreSale>33.11</coreSale>
        <coreCost>22.11</coreCost>
      </arg2>
    </ns2:insertBulk>
  </S:Body>
</S:Envelope>

```

Repair Order Parts Insert PIP	Product Version: 1.0
Product Guide	Date: 10/31/2011

```

    </arg2>
    <arg2>
      <lockPort/>
      <lockUser/>
      <orderNumber>182433</orderNumber>
      <lineCode>A</lineCode>
      <lineSeq>1</lineSeq>
      <partNumber>25166816</partNumber>
      <orderQty>8</orderQty>
      <saleQty>8</saleQty>
      <cost>44.11</cost>
      <salePrice>66.11</salePrice>
      <compPrice>11.11</compPrice>
      <listPrice>55.11</listPrice>
      <partDesc>PartDescription</partDesc>
      <employeeNumber>8</employeeNumber>
      <fillQty>8</fillQty>
      <serviceCharge>66.11</serviceCharge>
      <lineStatusDesc>LineStatusDesc</lineStatusDesc>
      <comment>Repair Order Parts Insert</comment>
      <labelPrintQueue>9</labelPrintQueue>
      <orderType>I</orderType>
      <userID>testcrm</userID>
      <allowPartNotOnFile>N</allowPartNotOnFile>
      <source>Source</source>
      <coreSale>33.11</coreSale>
      <coreCost>22.11</coreCost>
    </arg2>
  </ns2:insertBulk>
</S:Body>
</S:Envelope>

```

4.2.2 Response XML Example

The following is an example XML document Repair Order Parts Insert Bulk Response.

```

<?xml version="1.0" encoding="UTF-8"?>
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:insertBulkResponse xmlns:ns2="http://www.dmotorworks.com/pip-repair-
order-parts">
      <return>
        <code>success</code>
        <message/>
        <repairOrderParts>
          <checksum>508910</checksum>
          <lockPort/>
          <lockUser/>
          <returnCode>0</returnCode>
          <errorText>No Error</errorText>
          <orderNumber>182739</orderNumber>
          <lineCode>A</lineCode>
          <lineSeq>1</lineSeq>
          <partSeq>820</partSeq>
          <partNumber>25166816</partNumber>
          <orderQty>8</orderQty>
          <saleQty>8</saleQty>
          <cost>44.11</cost>

```

Repair Order Parts Insert PIP	Product Version: 1.0
Product Guide	Date: 10/31/2011

```

        <salePrice>66.11</salePrice>
        <listPrice>55.11</listPrice>
        <partDesc>PartDescription</partDesc>
        <employeeNumber>8</employeeNumber>
        <fillQty>8</fillQty>
        <serviceCharge>66.11</serviceCharge>
        <salesman/>
        <lineStatusDesc/>
        <comment>Repair Order Parts Insert</comment>
        <allowPartNotOnFile>N</allowPartNotOnFile>
        <source>Source</source>
        <coreSale>33.11</coreSale>
        <coreCost>22.11</coreCost>
    </repairOrderParts>
</return>
<return>
    <code>success</code>
    <message/>
    <repairOrderParts>
        <checksum>499223</checksum>
        <lockPort/>
        <lockUser/>
        <returnCode>0</returnCode>
        <errorText>No Error</errorText>
        <orderNumber>182433</orderNumber>
        <lineCode>A</lineCode>
        <lineSeq>1</lineSeq>
        <partSeq>35</partSeq>
        <partNumber>25166816</partNumber>
        <orderQty>8</orderQty>
        <saleQty>8</saleQty>
        <cost>44.11</cost>
        <salePrice>66.11</salePrice>
        <listPrice>55.11</listPrice>
        <partDesc>PartDescription</partDesc>
        <employeeNumber>8</employeeNumber>
        <fillQty>8</fillQty>
        <serviceCharge>66.11</serviceCharge>
        <salesman/>
        <lineStatusDesc/>
        <comment>Repair Order Parts Insert</comment>
        <allowPartNotOnFile>N</allowPartNotOnFile>
        <source>Source</source>
        <coreSale>33.11</coreSale>
        <coreCost>22.11</coreCost>
    </repairOrderParts>
</return>
</ns2:insertBulkResponse>
</S:Body>
</S:Envelope>

```

5. Repair Order Parts Insert Error Codes

The table below provides a list of the error codes and possible resolutions.

Error Code	Error Description	Possible Resolution(s)
1	Item is not on file.	Correct the error and resubmit. If it continues, open a support case.

Repair Order Parts Insert PIP	Product Version: 1.0
Product Guide	Date: 10/31/2011

Error Code	Error Description	Possible Resolution(s)
11	Property must be numeric.	Correct the error and resubmit. If it continues, open a support case.
14	Repair order is closed.	Parts cannot be inserted on repair orders that have been closed or voided.
15	Repair order has been voided.	Parts cannot be inserted on repair orders that have been closed or voided.
16	Sale price of zero calculated; sale price must be supplied.	Correct the error and resubmit. If it continues, open a support case.
2	Item is locked.	Retry the request. If it continues, open a support case.
4	Item is already on file. It cannot be added.	Items cannot be duplicated.
5	Property is not valid.	Correct the error and resubmit. If it continues, open a support case.
6	Cannot open file(s).	Retry the request. If it continues, open a support case.
9	Property is required.	Supply the required field and resubmit.