

RAMCOAVIATION SOLUTION VERSION 5.9 USER GUIDE REPAIR ORDER MANAGEMENT

ramco

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ABOUT THIS MANUAL

This manual briefly describes the basic processes and functions in Ramco Aviation Solution.

WHO SHOULD READ THIS MANUAL

This manual is intended for users who are managing the Aviation industry processes and are new to Ramco Aviation Solution.

This manual assumes that the user is familiar with the Aviation Industry nomenclatures and systems based soft

HOW TO USE THIS MANUAL

Ramco Aviation Solution provides extensive Online Help that contains detailed instructions on how to use the application. Users are suggested to use this manual for specific references, along with the Online Help. This manual contains enough information to help the users perform the basic tasks and points toward the Online Help for more detailed information.

HOW THIS MANUAL IS ORGANIZED

The User Guide is divided into 3 chapters and index. Given below is a brief run-through of what each chapter consists of.

Chapter 1 provides an overview of the entire **Repair Order Management** business process. The sub processes are explained in the remaining chapters.

Chapter 2 focuses on the Repair Order Administration sub process.

The Index offers a quick reference to selected words used in the manual.

DOCUMENT CONVENTIONS

- The data entry has been explained taking into account the "Create" business activity. Specific references (if any) to any other business activity such as "Modify" and "View" are given as "Note" at the appropriate places.
- **Boldface** is used to denote commands and user interface labels.

Example: Enter **Company Code** and click the **Get Details** pushbutton.

• Italics used for references.

Example: See Figure 1.1.

The sicon is used for Notes, to convey additional information.

REFERENCE DOCUMENTATION

This User Guide is part of the documentation set that comes with Ramco Aviation Solution.

The documentation is generally provided in two forms:

- The Documentation CD in Adobe® Systems' Portable Document Format (PDF).
- Context-sensitive Online Help information accessible from the application screens.

WHOM TO CONTACT FOR QUERIES

Please locate the nearest office for your geographical area from www.ramco.com for assistance.

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1. INTRODUCTION

The lack of adequate in-house capability or capacity necessitates the execution of maintenance of a component by outside agencies. The Repair Order Management business process administers the repair orders for availing maintenance services for aircraft components from external repair agencies. The **Repair Order Management** business process comprises the following sub processes.

The **Repair Order Administration** sub process deals with the creation of repair orders and sending the components for repair to external agencies.

The **Repair Order Hub** sub process deals with the visibility of Repair Orders in different statuses grouped by their statuses and exceptions.

2. REPAIR ORDER ADMINISTRATION

Repairs constitute an important part of an Airline Operator's day-to-day operations. Quality repairs not only ensure the safety of the passengers during flight, their timely return ensures that there is as little down time as possible, thus enhancing the dispatch reliability of the aircraft.

Repairs are performed on a single component or multiple parts / components / facilities when,

- The object(s) fails (unscheduled repair)
- A routine shop visit is due (scheduled)
- ▶ It is time for a bench check
- The object(s) needs to be recalibrated
- An Engineering Order is due (Service Bulletin or Directive)

- when the in-house repair shop does not possess the required facility
- when the in-house repair shop has a capacity constraint
- when the external repair shop can perform it at a lower cost.

A repair order is raised when the component is sent to a repair shop. It is raised based on the repair shop's capability to meet the repair requirements.

A repair order document traverses through the following stages:

Raise repair order

The component maintenance planner raises a repair order to meet the repair requirements. The repair order contains a list of defects in the objects and the work that must be performed on it to rectify the defects. The other necessary information such as the component / part history, warranty details, the expected date of return of the component is also available in the repair order. The status of the repair order on creation is set to "**Fresh**" if all the mandatory information is entered on the repair order, or "**Draft**" if the mandatory information is not yet entered.

Release Repair order

On releasing a repair order, a notification is sent to stores that the component must be shipped for repair to the repair shop. The status of the repair order on release changes to "**Released**". However, if the Quote Generation Basis attribute of the repair order is "Automatic", the Status can become "Quoted", "Confirmed" or "Authorized".

Subsequent to the release of parts for shipping, the Stock Issue for a repair order is generated automatically in "Fresh" status and a MMD is created.

Acknowledgement of the repair order

The repair shop acknowledges the details of the components that are received for repair. The status of the repair order on acknowledgement changes to "Acknowledged" only if its earlier status is "Shipped". However, the status of the repair order remains unchanged, if the current status is "Quoted", "Confirmed" or "Authorized".

Raise quotation

The repair shop quotes for the intended repair and estimates the cost of repair. However, if it is a standard job of overhaul and/or embodiment of the Airline Directive or Service Bulletin, this can be quoted as standard cost of overhaul. However, the repair shop can still report additional cost, over and above standard cost of overhaul, upon findings (Strip Report). The status of the repair order changes to "Quoted".

Automatic Generation of quotation

The system can automatically generate the quotation for a repair order comprising contracted as well as noncontracted parts. This happens when the "Quote Generation Basis" attribute of the repair order is set to "Automatic". In such a scenario, the Status of the repair order would become "Quoted", "Confirmed" or "Authorized" after it is released for shipping based on certain conditions.

Confirmation of the repair order

The planner receives and confirms the repair shop's quotation. The repair quote raised by the repair shop is approved, either for repair or for discarding the item under BER. At this instance, the work scope and the parameters are finalized for the repair order. The status of the repair order changes to "**Confirmed**".

Authorize the repair order

The repair order document goes through a multi-level authorization process. The repair shop can commence the repair work on the component / part only when the repair order has been authorized. The status of the repair order, upon authorization, changes to "Authorized". If it has been decided that the repairs on the component/part is not economical (BER) and instead can be salvaged by the repair shop, the status of the repair order changes to "BER Closed". But if the operator performs the salvage action, which implies that the component / part can be returned to the operator, the status of the repair order changes to Authorized only.

Amend the repair order

Any modifications to the repair order, after it has been confirmed or authorized, can only be done through the process of amendment. The status of the repair order changes to "**Amended**". An amended repair order needs to be confirmed and authorized for repair work to be taken up based on it.

Goods received after repair

A repair receipt is raised once the goods are received after repair. The goods are inspected and moved into the warehouse. The repair order is then closed and the status of the repair order changes to "**Closed**". *See Figure 2.1*.

The following diagram depicts the various statuses of a repair order:



Figure 2.1 Repair Order Statuses

2.1 RAISING A REPAIR ORDER

You can capture the basic information required to manufacture a part, like 'Lead Time', 'Mfr. Valuation Method' (Stock Valuation), 'Default Work Center', etc. Certificate details required to be issued for the finished parts can also be defined in this page. You are required to define the Source of the part as "Make" in the **Maintain Planning Information** page of the **Part Administration** business component.

2.1.1 SETTING OPTIONS

1. Select Set Options under the Repair Order business component. The Set Options page appears. See Figure 2.2.

* 🗈 Set Options	
	Date Format yyyy-dd-mm
Repair Options Quotation and Authorization Options Numbering and Work Scope Options	
Default Repair Agency in Repair Orde	r Yes 💌
Acknowledgement of Orde	Non Mandatory 💌
Part-Repair Process Code mapped to Supplie	Non Mandatory 💌
Repair Order only on UnServiceable part	s No 💌
Component in Warehouse Chec	Enforce 💌
Spares Supplied B	/ Both 💌
Spares Shippin	With Core Only
Return to Location different from Issue Locatio	Allowed 🔻
Default Insured Value in Repair Orde	r Standard Cost 💌
Retrieval of Related Tasks in Repair Orde	Required 🔻
Default Repair Process Code for Perpetual Task	Repair 💌
s	et Options
- Record Statistics	
Created by MKESAVAN	Created Date 2011-07-11
Last Modified by DMUSER	Last Modified Date 2016-06-04

Figure 2.2 Setting repair order options

2. Select the **Repair Options** tab. *See Figure 2.2.*

In the multiline, enter the following,

- 3. Use the **Default Repair Agency in Repair Order** field, to indicate whether the **Repair Shop #** field in the **Create Repair Order** page must display the preferred repair agency for the part, by default. Select "Yes", to display value in the **Repair Shop #** field in the **Create Repair Order** page. Select "No", if you do not want to display the preferred repair agency on launch of the page.
- 4. Set the Acknowledgement of Order field as "Mandatory" or "Non Mandatory".
- 5. Set the Part-Repair Process Code mapped to Supplier field to:
 - "Mandatory", if the part repair process code must be mapped to the supplier for creating a RO.
 - "Mandatory for Selective Suppliers, if the part repair process code must be mapped only to the selective suppliers
 - "Non Mandatory", if the part repair process code need not be mapped to the supplier.
- 6. Set the **Repair Order only on Unserviceable Parts** field as "Yes" to allow the repair order only on unserviceable parts. Select "No" otherwise.
- 7. Set the Component in Warehouse Check field to "Enforce" or "Do Not Enforce".
- 8. Set the Spares Supplied By field as "Operator", "Repair Shop" or "Both".
- 9. Set the **Spares Shipping** field to "Separate" to indicate that the spares are to be shipped separately. Select "With Core Only" if the spares are to be shipped only with the core part.
- 10. Set the **Return to Location different from Issue Location** field as "Allowed" to allow the return of part to a location different from issues location.
- 11. Set the Default Insured Value in Repair Order field to "Not Required", "Standard Cost" or "Standard Purchase Price".

- 12. Set the **Retrieval of Related Tasks in Repair Order** field to "Required" to retrieve the related tasks in the repair order.
- 13. Select the Default Repair Process Code for Perpetual Tasks from the list of repair process code.

Recording quotation and quotation and authorization parameters

1. Select the Quotation and Authorization Options tab. See Figure 2.3.

★ B Set Options	Z	F	ţ	+	?	to K
Date Format yyyy-dd-mm						
Repair Options Quotation and Authorization Options Numbering and Work Scope Options						
Quote Generation Basis Manual 🔻						
RO Status for non-contracted parts Not Applicable 🔻						
Under Warranty Repairs Manual Quote 💌						
Quotation Type Allowed for Invoicing Firm 💌						
Allow Cost Amendment for RO Yes 💌						
Component List Price Standard Cost 💌						
Auto Authorization Limit (%) 50.00						
Max. Allowable Repair Cost (%) 50.00						
Set Options						
Record Statistics						
Created by MKESAVAN Created Date 2011-07-11						
Last Modified by DMUSER Last Modified Date 2016-06-04						

Figure 2.3 Setting quotation and authorization options

In the multiline, specify the following,

- 2. Use the **Quote Generation Basis** drop-down list box to select the basis for generating quotes for repair orders. The list box displays the following options: Manual, Automatic only for Contracted Parts and Automatic for all parts.
- 3. Use the **RO Status** for non-contracted parts drop-down list box to select the status of repair orders for non-contracted parts for which the system automatically generates quotations.
- 4. Select the **Under Warranty Repairs** to generate under warranty repairs "Manual Quote" or "Auto Quote and Authorize".
- 5. Use the **Quotation Type** Allowed for Invoicing drop down list box to select the quotation type that is allowed for invoicing as "Firm" or "Firm & Estimate".
- 6. Select the Allow Cost Amend for PO for amending the cost for RO as "Yes" or "No".
- 7. Set the Component List Price field as "Enterable" or "Standard Cost".
- 8. Enter the Auto-Authorization Limit (%) field to specify the limit for automatic authorization.
- 9. Enter the Max. Allowable Repair Cost (%).

Recording numbering and work scope parameters

1. Select the Numbering and Workscope Options tab. See Figure 2.4.

★ Set Options	Z	-	+ '	? [¢ K
Date Format yyyy-dd-mm					
Repair Options Quotation and Authorization Options Numbering and Work Scope Options					
Default Numbering Type for Auto Repair Order 🛛 🔺 🖛					
Default Num. Type for Auto Warranty RO 🛛 🖉					
Default Numbering Type for Discrepancies ROD 💌					
Work Unit Addition Allowed 💌					
Delete Defaulted Work Unit Allowed 🔻					
Addition of Non Routine Task Allowed 🔻					
Set Options					
Created by MKESAVAN Created Date 2011-07-11					
Last Modified by DMUSER Last Modified Date 2016-06-04					

Figure 2.4 Setting numbering and work scope options

- 2. Select **Default Numbering Type For Auto Repair Order** to specify the default numbering type for repair orders generated automatically.
- 3. Select **Default Numbering Type For Auto Warranty Repair Order** to specify the default numbering type for warranty repair orders generated automatically.
- 4. Select the Default Numbering Type For Discrepancies.
- 5. Set the Work Unit Addition field as "Allowed" to allow the addition of work units. Select "Not Allowed" otherwise.
- 6. Set the **Delete Defaulted Work Unit** field as "Allowed" to allow the deletion of default work units. Select "Not Allowed" otherwise.
- 7. Set the **Addition of Non Routine Task** field as "Allowed" to allow the addition of non-routine task. Select "Not Allowed" otherwise.
- 8. Select the Set Options pushbutton.

2.1.2 CREATING A REPAIR ORDER FOR A SINGLE COMPONENT

- 1. Select Create Repair Order under the Repair Order business component. The Select Component page appears.
- 2. Enter the Part # and Serial # or the Component # in Direct Entry and select the Create RO link provided alongside.

Or

3. Use the **Search Criteria** to search for a part for which repair order must be raised. Click the hyperlinked **Component #** in the multiline. The **Create Repair Order** page appears. *See Figure 2.5.*

2.1.3 CREATING A REPAIR ORDER FOR MULTIPLE PARTS / FACILITY OBJECTS

- 1. Select Create Repair Order for Piece Parts / Facilities under the Repair Order business component. The Select Piece Parts / Facilities page appears.
- 2. Use the **Search Criteria** to search for a part / facility object for which repair order must be raised. Select the required record in the multiline and click the **Create RO** link. The **Create Repair Order** page appears. *See Figure 2.5.*

삼 > Repair Order Management > Rep	pair Order > Create Repair Order				<u>^</u>							
\star 🔳 Create Repair Order								2 3 4 5 🕨	RAMCO OU-Ram	nco Role	- >< 🛱 🗲 🗄	: ? 🗔 🖪
Repair Order Info											10 11 11	
Repair Order #				Numbering Type		•	Select	t "Yes" to indica			pecify the tim	e
RO Type Nor	rmal 👻			Expense Type	Reven	ue 🔻	the co	omponent mus	t not be	re	equested for r	epair
Remarks								ed before 15 da				
🛨 Repair Shop Details									·		<u> </u>	
Repair Order Details							prior	to the shipping	date			
Priority A1	~			For Aircraft Reg #			\geq		pe	Compor		
Exchange Type	~			Currency	CAD	•		Re	quested Repair Time		10.00 Days	•
Repair Shop Shipping Date			S	hipping Date Control	No	•				CS-REP	AIR 💌	
	M AF 💌			From Warehouse #			Q		Stocking Location			
	MCO OU 🔻		F	Return Warehouse #			Q			P/N And	d S/N Change Allowed	•
Spares Shipped No				Buyer Group					Description			0
Ref. Document Type A/C Station	C Mail Exe. Ref # 🔍 ▼		0	Ref. Document #					Work Center #			Q
Discrepancies Associated?				ote Generation Basis	Manua				Move To	Wareho	use	
Repair for & Expense Details				Repair Classification	COA				-			
Repair for & Expense Details	f Indicate whether sp	oares	Renair f	for Trading Partner #		In all and			rading Partner Name			
RO & Inv. Org. AVE			itepuir i	Expense to				ner quotation	roomy rate for the			
Customer Information	must be shipped a	~				for the	repair or	rder is				
	with the componer	nt				genera	Ited auto	matically or				
Maint. Object & Work Scope Details Pa	art					<u> </u>		matically of				
Maint. Object Details Workscope Details	3					manua	lly					
Maint. Object Details												
≪											 Search 	Q
# <u>Line</u> # Part# Q	Part Description	Quantity		Stock UOM	Serial		Lot # 🔎	Manufacturer Lot # D	Stock Status		Repair Inst.	
	PS9323 CARRIER		1.00	EA	MSN-0	09-00124			Accepted	~		
2	<u></u>									~		
												+
Click to vi	iew repair			Sa								
				34	ve							
instructio	ons			Crea	ate RO				Edit Te	erms and	Conditions	
Edit User Defined Details	E	Edit Discrepand	cies					Edit Repair Order				
Upload Documents	c	Generate RO R	Report					Attach Clause				
View Repair Instructions									Click	to at	tach clauses to	0
View Repair Cost History	١	/iew Part Repa	air Shon	Mapping				View Parts Under Rep	air Repai	ir Ord	ler	
View Parameter Information				ning Parameter				View Warranty Claim	pa			
View Associated Doc. Attachments	N N	/iew Warranty	Ref. Do	ocuments				View Part Information	1			

Figure 2.5 Creating repair order

- 3. Select the Numbering Type by which the repair orders created must be numbered.
 - Note: For details on creating numbering types, refer to the section "Defining numbering types for transactions" in the "Inventory Setup" User Guide.
 - You can set a default numbering type in the Set Options activity, to specify the manner in which the repair orders that are generated automatically from the Component Maintenance Planning business component, must be numbered.
- 4. Select the type of the repair order in the **RO Type** field. The repair order can be of type "Normal" or "Exchange".
- 5. Select the expense type of the repair order, in the **Expense Type** drop-down list box.
- 6. Enter the identification number of the CAPEX proposal for the repair order, in the CAPEX Proposal # field.
 - Note: If CIM exists with Repair Order and Asset Planning components and, the Expense Type is Capital, the CAPEX Proposal # becomes mandatory.
 - ➢ Note: Ensure that the CAPEX Proposal you specify is active on the date of repair order creation.
- 7. Enter the number identifying the shop where the component must be repaired, in the **Repair Shop #** field.
- 8. Enter the **Address ID** of the contact person of the supplier. On click of enter, if the Entered Address ID is valid, the system defaults the Address, Contact Person, Phone #, email and Fax corresponding to the Address ID defined in the "Edit Contact information" screen of the "Supplier" business component for the Corresponding Supplier -Contact Person combination.
- 9. Enter the person to be contacted in the repair shop, in the Contact Person field.
- 10. Select the EDI Required? drop-down list box to specify whether the EDI capabilities in Repair Order are required or not.
- 11. Select the priority to be assigned to the repair order, in the **Priority** drop-down list box.

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- Note: If the priority is set to "AOG" (Aircraft on Ground) then specify the registration number of the aircraft in the For Aircraft Reg # field.
- 12. Select the shop job type of the repair order, in the **Shop Job Type** drop-down list box.
 - Note: (1) If the 'Create RO' page is accessed from the "Select Component" page, the system defaults the above field to Component. (2) Similarly, the shop job type becomes Piece Part", if the "Create RO" page is opened from the "Select Piece Part / Facility Objects" page.
- 13. Select the currency in which you must pay the repair cost, in the **Currency** drop-down list box.
- 14. Enter the date by which the component / part is expected to be shipped, in the Repair Shop Shipping Date field.
- 15. Select the category to which the repair order belongs in the RO Category drop-down list box.
- 16. Enter the identification number of the warehouse from where the component is issued for repair, in the **From** Warehouse # field.
- 17. Select the location to which the component / part must be returned after repair, in the **Return to Location** drop-down list box.
- 18. Enter the code identifying the warehouse to which the component must be returned after repair, in the **Return** Warehouse field.
- 19. Select the type of change allowed on the returned component / part, after the repair is performed, in the **Core Return Option** drop-down list box. The system provides the options, "P/N Change Allowed", "S/N Change Allowed", "P/N and S/N Change Allowed" and "No Change Allowed".
 - Note: No Change Allowed, P/N & S/N Change Allowed, P/N Change Allowed and, S/N Change Allowed are available, if you have selected Component or Piece Part in the Shop Job Type field and RO Type is selected as Exchange.
 - No Change Allowed is available, if Facility is specified as the Shop Job Type and the RO Type is selected as Normal.
 - If "RO Type" is "Exchange", the system displays "S/N Change Allowed" is the only available option. For RO Type "Normal" and Shop Job Type "Facility, the system provides you with only one option – "No Change Allowed".
- 20. Set the Spares field to "Shipped" or "Not Shipped" to specify whether spares are shipped along with the component / part or not.
- 21. Select the type of the reference document, in the **Ref. Doc Type** drop-down list box.
- 22. Enter the number identifying the reference document in the Ref. Document # field.
 - > Note: This field can be entered only if the reference document type is selected.
- 23. Enter the **Work Center #**, that must execute the repair order. The system displays the primary work center defined for the reference document, if the reference document type is "Shop Work Order".
- 24. Use the drop-down list box to indicate the **Quote Generation Basis** for generating the quotation for the repair order. By default, the drop-down list displays "Manual", if you have set the **Quote Generation Basis** as "Manual' in the "Set Options" activity. However, if you have set the **Quote Generation Basis** as "Automatic only for Contracted Parts" or "Automatic for all Parts" in the "Set Options" activity, this field offers options: "Manual" and "Automatic".
 - Note: The quote generation basis you specify in this page overrides the quote generation basis you have set in the Set Options activity.
- 25. In the **Customer Information** group box, enter the identification number of the customer order, in the **Customer Order** *#* field.
- 26. Select the Maint. Object & Work Scope Details tab to specify maintenance object and workscope details.
- 27. Select the Part & Warranty Details tab to specify the part and warranty details.
- 28. Click the **Create RO** pushbutton.



For further details,

- Select the Edit Terms and Conditions link to add terms and conditions for carrying out the repair.
- Select the Edit User Defined Details link to enter the user defined details for the repair order.
- Select the Edit Discrepancies link to enter the discrepancies reported.
- Select the Edit Repair Order link to modify the repair order details.
- Select the View Repair Instructions link at the bottom of the page to view the repair instructions applicable for the Part-Serial/Lot.
- Select the **Upload Documents** link at the bottom of the page to upload the documents.
- Select the Generate RO Report link to generate the Repair Order Report.
- Select the Attach Clause link to attach clauses to Purchase Order/Repair Order.
- Select the View Discrepancies link to view the discrepancies reported.
- Select the View Repair Cost History link to view the cost information of the previous repairs done for the part.
- Select the View Parameter Information link to view parameter information.
- Select the View Warehouse Planning Parameter link to know the storage and transit details of the warehouse, which receives parts after repair.
- Select the View Parts Under Repair link to know the total quantity of the specific piece part/facility/component in the repair process.
- Select the View Associated Doc. Attachments link at the bottom of the page to view associated document attachments.
- Select the View Repair Instructions link at the bottom of the page to view the Repair Instructions applicable for a Part-Serial/Lot.

Recording part and work scope details

1. Select the Maint. Object & Work Scope Details tab. See Figure 2.5. The Maint. Object Details and Workscope Details tabs appears.

Recording Maint. Object Details

This tab enables the user to save the Maint. Objects in the Repair Order at first.

- 2. In the Maint. Object Details multiline; enter the identification number of the part for repair, in the Part # field.
- 3. Enter the number of parts that need repairs, in the **Quantity** field.
- 4. Enter the serial number of the part, in the **Serial #** field.
- 5. Enter the Lot # and Manufacturer Lot # of the part.
- 6. Enter the user-defined stock status of the part, in the **Stock Status** drop-down list box.
- 7. **Repair Inst.** indicates availability of any repair instructions defined for the Part / Part-Serial/Lot # combination, in the Notes link available in "Reliability Dashboard" and "Manage Engineering Document" screens. Click the icon to view the repair instructions.
- 8. Enter the estimated cost of the part / parts, in the Total Cost field.
- 9. Elaborate on the repair job to be executed on the part, specific to the serial #, in the Work Requested field.
- 10. Enter your observations or additional information on the repair order, in the **Remarks** field.

Recording Workscope Details

This tab enables the user to provide Workscope for specific Maint. Object Line #s.

- 11. In the **Work Scope** multiline, select the repair process that must be carried out on the part, in the **Repair Process Code** drop-down list box.
- 12. Select the type of maintenance to be performed on the component / part, in the Maintenance Type drop-down list box.



- 13. Enter the work unit to be performed on the component, in the **Work Unit #** field, and select the type of the work unit in the **Work Unit Type** drop-down list box.
 - Note: You can add new work units only if the "Work Unit Addition" option is set to "Allowed" in the **Set Options** business activity. Also, the system allows you to delete the work units that are retrieved by default, only if the "Delete Defaulted Work Unit" option is set to "Allowed".
- 14. Enter the **Part#** and the **Serial #** on which the work has to be performed.
- 15. Enter your observations or additional information relating to the creation of the repair order in the **Comments** field.
- 16. Click the Print Task Card pushbutton to print the task card details

Recording part warranty details

- 1. Select the Part & Warranty Details tab. See Figure 2.6
 - Note: If more than one record exists in the "Maint. Object Details" multiline, the "Part #" field displays 'Multiple' and the rest of the fields display no value in the Part Details group box. Alternatively, if only one part specified for repair, the below-mentioned details are shown.
- 2. In the Part Details group box, select the operator of the aircraft, in the Owned By field.
- 3. Elaborate on the reason for the removal of the part / piece part / facility from the aircraft, in the **Reason for Removal** field.
- 4. In the Warranty Claim Details group box, indicate whether the part / component / facility is covered under warranty, in the Under Warranty field.
- 5. Use the Warranty Claim On drop-down list box to select the basis on which the warranty claim must be computed.

> Note: Ensure that you do not leave this field blank, if the "Under Warranty" is set to "Yes".

- 6. Use the **Ref. Document Type** drop-down list box to select the type of the reference document for the repair order.
- 7. The **Ref. Document #** for the repair order.
- 8. Enter the number identifying the supplier agreement document, in the Supplier Agreement Ref # field.

	N1:54718 CONCENTRATION TESTER	Serial # Component #	80CDC226-89 A100022
Condition Owned By Mfr. #	03 💌	Owner Name Manufacturer Name	
Mfr. Part # Removed From Aircraft Regn # NHA Part # NHA Serial # Removed at Station Reason For Removal	Indicates whether the parts in the repair order are covered by warranty agreement with the repair shop	Manufacturer Serial # Model of Applicability NHA Part Desc Position in NHA Reason for Removal	00LDL226-69
Warranty Claim Details Under Warranty Ref. Document Type Supplier Agreement Ref # Warranty Reference # Warranty Claim # Warranty Claim # Warranty Notes	No Evaluate Warranty Repair Order	Warranty Claim On Ref. Document # Supplier Warranty Ref # Warranty Type Claim Date	AFRO-000001-2011

Figure 2.6 Recording part and warranty details at the time of creating repair order

- 9. Enter the number identifying the supplier warranty agreement document, in the Supplier Warranty Ref # field.
 - Enter any additional information pertaining to warranty, in the **Warranty Notes** field.

2.1.4 SPECIFYING THE TERMS AND CONDITIONS WHILE CREATING A REPAIR ORDER

16 | Repair Order Management

You can enter the terms and conditions of the repair order. The payment terms like the mode in which the payment has to be made, the supplier to whom the payment has to be made, the insurance details and shipping information are entered. You can also specify the details of the spares that are sent along with the component / part for carrying out the repair. On creating the repair order, the status of the repair order is set to "Draft". After entering the details in this page, the status changes to "Fresh". You can also release the component for shipping. The status of the repair order is set as "Released". However, if the Quote Generation Basis attribute of the repair order is "Automatic", the Status can become "Quoted", "Confirmed" or "Authorized".

1. Select the Edit Terms and Conditions link in the Create Repair Order page. The Edit Terms and Conditions page appears. See Figure 2.6.

★ III Edit Terms and Conditions				
_	AFRO-000014-201		Amendment #	ŧ 0
Currency	Indicates whet		Statu	s Draft
Repair Shop #	999999 must be shipp	ed along	Shipping Contact 🖇	
Email	with the comp	ponent	Fa	x
Ship To Address Id			Ship To Addres	s MGR MATERIAL & COMPONENTS SYSTEM, FACILITIES & SUPPLY, DC
Ship Core By	As per routing guide		Packaging Code	asdf 🔍
Spares Shipped	No 🔻		Ship Spares B	
RMA #			RMA Date	e 🛗
Part Details				
	767C0000-01:f1958			N PNEU. TEMP SENSOR
	767C0000-01		Serial #	
Component #			Condition	UnServiceable
Terms and Conditions Inbound Shipment and GTA	A Details Spares Shipped			
Advance Payable	No.		Advance Develop D. Date	iii
Advance Payable Advance Percent			Advance Payable By Date Advance Percent On	•
Advance Percent Advance Payable			Advance Percent On Advance Tolerance Percent	· ·
	N030D000_00.0		Payment Mode	Check 💌
Payment Priority			Matching Type	
Pay to Supplier #			Pay To Supplier Address ID	
	PYROTEK, 2285 QUEEN ST. UNIT 10:	Enter details of warranty	DD Charges Borne By	
		agreement with the	Insured Value	
Remarks		repair shop for parts to		
Special Warranty Terms				
Under Warranty?	No 💌	be repaired	Warranty Basis	-
Reference Agreement #			Warranty Begins On	•
Warranty Duration		•	,	
Flight Cycles	СҮС		Flight Hours	HRS
Terms and References				
	Edit Terms and Conditions	5	Release for Shipping	
Record Statistics	·			
Created by	EDID/AL		Crasted Date	2011-21-11
Last Modified by			Last Modified Date	
Last Houried by	bridder		Last Houried Date	

Figure 2.7 Specifying the terms and conditions while creating a repair order

The system retrieves the details of the repair order for which terms and conditions must be specified.

- 2. Enter the person to be contacted while shipping the components to the repair shop, in the **Shipping Contact** field.
- 3. Select the method in which the component must be shipped, in the Ship Core By drop-down list box.
- 4. Select the packaging method in the Packaging Code drop-down list box.

Recording terms and conditions

1. Select the Terms and Conditions tab. See Figure 2.7.

In the Terms and Conditions group box, enter the following,

- 2. Use the drop down list box to select the **Advance Payable** option as "Yes" or "No" to specify whether advance is payable for the specified repair order or not.
- 3. The date before which the advance amount has to be paid, in the Advance Payable By Date.
- 4. The percentage of the advance payment to be made, in the Advance Percent.

- 5. Use the **Advance Percent On** drop-down list box to indicate if the advance percent is applicable on "Total" or "Basic" value.
- 6. The actual amount payable in the **Advance Payable** field. If you have specified a percent in the **Advance Percent** field, the system displays the advance payable amount.
- 7. Enter the **Tolerance Percent** on the advance payable percent.
- 8. Enter the pay term to define the terms of payment in the Pay Term field.
- 9. Select the mode in which the payment must be made, in the Payment Mode drop-down list box.
- 10. Select the priority for the payment to be made, in the Payment Priority drop-down list box.
- 11. Select the **Matching Type** to indicate the manner in which the quality and the values of goods available at different points in the procurement process must be compared. The system provides the options "Four way at RR" and "Four way at RO".
- 12. Enter the code identifying the supplier to whom the payment is to be made, in the Pay to Supplier # field.
- 13. Use the drop down list box to select the Pay To Supplier Address ID.

In the Terms and Conditions group box, enter the following,

- 14. Use the Insurance Liability drop-down list box to specify the person liable to pay the insurance amount.
- 15. Use the **DD Charges Borne By** drop –down list box to specify whether the DD charges are to be borne by the repair shop.

In the Special Warranty Terms group box, enter the following,

- 16. Use the Under Warranty ? drop-down list box to indicate whether the parts are covered by a warranty agreement.
- 17. Use the Warranty Basis drop-down list box to specify the basis for the warranty of the parts.
- 18. The identification number of the warranty agreement in the Reference Agreement #.
- 19. Use the Warranty Begins On drop-down list box to specify the date of commencement of warranty for the parts.
- 20. The period for which the parts in the repair order are covered by the warranty agreement, in the **Warranty Duration**. Specify the UOM for the effective warranty period in the drop-down list box beside the input field.
- 21. The number of Flight Hours for which the parts in the repair order are covered by the warranty agreement.
- 22. The number of Flight Cycles for which the parts in the repair order are covered by the warranty agreement.

Recording shipping and GTA details

1. Select the Inbound Shipment and GTA Details tab. See Figure 2.7.

Terms and Conditions	Inbound Shipment and GTA	A Details	Spares Shipped		
- Core Return Shipmen	t				
	Return to Location	RAMCO OU			Return Warehouse # YULCSOV
	Return Core By	As per routin	g guide	•	Shipping Payment COD 🔻
	Packaging Code	BOX	•		Spares Return
	Certificate Type	8130-3		•	Inspection Type Self 💌
	INCO Term	•			CarrierCode
	Port Of Departure				Port Of Destination
	Delivery To Code	Ŧ			
	Packaging Notes				
	Shipping Notes				
- Spares Return Shipm	ent				
	Return Spares By	T			Shipping Payment
	Packaging Code	T			
General Terms Agree	ment Details				
	GTA Reference #				Ref. Document Date
	GTA Remarks				

Figure 2.8 Specifying shipment and GTA details

In the Core Return Shipment group box,

2. Select the method of returning the component in the **Return Core By** drop-down list box.



- 3. Select the mode of payment for shipping a component / part, in the Shipping Payment drop-down list box.
- 4. Select the packaging method of the component that is returned, in the Packaging Code drop-down list box.
- 5. Use the Spares Return drop-down list box to specify whether the excess spares or tools must be returned.
- 6. Select the type of certificate that is issued to the specified part or supplier, in the Certificate Type drop-down list box.
- 7. Specify the person who must perform the inspection checks on the component / part at the time of delivery, in the **Inspection Type** drop-down list box. The system provides the options "Self" and "By Inspector".
- 8. Use the drop-down to select the **INCO Term** for the repair order.
- 9. Use the drop-down to select the Carrier / Agency#.
- 10. Specify the Port of Departure and the Port of Destination.
- 11. Select the **Delivery To Code** drop-down list box to select the shipping destination.

In the Spares Return Shipment group box,

- 12. Use the **Return Spares by** drop-down list box to specify the method of returning the spare, which could be air, rail or road.
- 13. Use the Shipping Payment drop-down list box to specify the mode of payment for shipping.
- 14. Use the **Packaging Code** drop-down list box to specify the packaging method of the spares to be returned during shipping.

In the General Terms Agreement Details group box,

- 15. Enter the GTA #.
- 16. Enter the date on which the reference document was created in the **Ref. Document Date**.

Recording shipped spares details

17. Select the Spares Shipped tab. See Figure 2.9.

	> > + - □ ⊀ ¢ ¢	I IX								All	•		۶,
Part # 🔎	Part Description	Qty.	UOM 🔎	Stock Status		Location		From Warehouse # 🔎	Return Type		Return to Location		Return
:35895	EXPRESS U.S.RATE SH EET		12	Accepted	*	RAMCO OU	~	0123	Non Returnable	~	RAMCO OU	*	
				Accepted	~	RAMCO OU	•		Non Returnable	~	RAMCO OU	~	
		detail	s of the	e spares									



In the Spares Shipped multiline,

18. Enter the code identifying the spare, which is shipped for repair along with the component, in the **Part #** field in the multiline.

Note: The spare part must be of type "Consumable", "Expendable" or "Tools".

- 19. Enter the quantity of the spare to be shipped for repair, in the **Quantity** field.
- 20. Enter the unit of measurement of the spare, in the **UOM** field.

- 21. Select the location from where the spare must be issued, in the **Location** field.
- 22. Enter the From Warehouse # from which the spare must be issued.
- 23. Select the type of return of the spare in the **Return Type** field. The system provides the options "Returnable" and "Non-Returnable".
- 24. Select the location to which the spare must be returned to, in the Return To Location drop-down list box.
- 25. Enter the **Return Warehouse #** to which the spare must be returned.
 - Note: The return details of the spare as specified in Steps 21 and 22 needs to be specified only if the Return Type field is set as "Returnable".
- 26. Click the Edit Terms and Conditions pushbutton.

2.1.5 VIEWING REPAIR INSTRUCTIONS

Standard Instructions that are essential for reference gets identified for a Part / Part-Serial/Lot # combination during various analyses, Reliability and Service Bulletins being few sources. Any information that needs to be served as a reference during Execution will be defined as a Task in the execution documents. Reliability and Engineering notes caters the definition of these repair instructions. This screen enables the user to view the Repair Instructions applicable for a Part-Serial/Lot, which will be useful during Planning for Work Execution.

1. Select the View Repair Instructions link in the Create/Edit/View Repair Order pages. The View Repair Instructions page appears. See Figure 2.8.

			Part # MRI2404-9				Part Description	0101010	Mfr. Serial # VI-I	004	0	~	mponent # A104137	
					Q		Task #			-001	Q			
		P	urpose Repair				Task #	2	ource Doc. Type		•	50	urce Doc. #	
								Search						
air In	struct	ions												
4		1 - 8/8 🕨	» — T 7							人血		∓ +⊨ III 1∔ % All	▼ Search	
2		Part #	Part Description	Mfr. Serial #	Serial #	Purpose	Notes		Source Doc. Type	e So	urce Doc. #	Task #	Source Doc. Date	Status
	8	VRI2404-9	VRI2404-9	VI-001	VI-001	Repair	Battery-Powere	Ignition System: If your small engine includes a battery for	EO	EO	000787-2020	EO-000787-2020-1	04-25-2020	A
	巴	VRI2404-9	VRI2404-9	VI-001	VI-001	Repair	Condenser: Be	ause the spark moving across points can damage their surface	es, EO	EO	000787-2020	EO-000787-2020-1	04-25-2020	A
	8	VRI2404-9	VRI2404-9	VI-001	VI-001	Repair	Connecting Ro	Between the piston and the crankshaft is a connecting rod.	At LTR					A
	E	VRI2404-9	VRI2404-9	VI-001	VI-001	Repair	Distributor: A c	stributor is an ignition system for engines with more than one	LTR					A
	10	VRI2404-9	VRI2404-9	VI-001	VI-001	Repair	Friction: Frictio	is resistance that occurs when one surface rubs against	LTR					A
		VRI2404-9	VRI2404-9	VI-001	VI-001	Repair	Magneto-Powe	ed Ignition System: A magneto uses magnetism to supply	EO	EO	000787-2020	EO-000787-2020-1	04-25-2020	A
	8	VRI2404-9	VRI2404-9	VI-001	VI-001	Repair	Mechanical-Bre	ker Ignitions: High-voltage electricity must be sent to the spa	rk EO	EO	000787-2020	EO-000787-2020-1	04-25-2020	A
	10	VRI2404-9	VRI2404-9	VI-001	VI-001	Repair	Points: As the	ankshaft rotates, a cam opens and closes a set of contact	EO	EO	000787-2020	EO-000787-2020-1	04-25-2020	A

Figure 2.7 Viewing Repair Instructions

- In the "Search Criteria" group box, specify the search fields such as 'Part #', 'Part Description', 'Mfr. Serial', 'Component #', 'Purpose', 'Task #', 'Source Doc. Type' and 'Source Doc. #' to retrieve the Repair Instruction details.
- 3. The part Notes defined in the Reliability Notes screen of Reliability Analysis business component / defined in any Engineering Order Task # combination at Part-Serial or Part level will be retrieved in the "Repair Instructions" multiline.

2.1.6 CANCELING A REPAIR ORDER

You can enter the terms and conditions of the repair order. The payment terms like the mode in which the payment has to be made, the supplier to whom the payment has to be made, the insurance details and shipping information are entered. You can also

- 1. Select Edit Repair Order under the Repair Order business component. The Select Repair Order page appears.
- 2. Search and retrieve the repair orders in the multiline.
- 3. Select the repair order to be canceled and click the Cancel RO pushbutton.
 - >> Note: The repair order is canceled and the status of the repair order is set as "Canceled".
 - Note: When the status of the repair order is "Released", the repair order can only be cancelled; it cannot be modified.

Note: When the status of the repair order is changed from "Fresh" to "Canceled", the workflow is enabled. Notification messages can be sent as per the settings you have defined in the **Workflow Management** business component.

2.1.7 REVIEWING REPAIR ORDER

- 1. Select Review RO icon in the Create Repair Order business component. The Repair Review Pop-up appears.
- 2. This Pop-up can also be launched from Authorize Repair Order and Create Repair Order for Piece Parts/Facilities activities.

Part# N1:S4718	Part Description									
Part Type Component	CONCENTRATION TEST Serial/Lot# SER547547	ER	Repair Shop 00000 Supplier 2 Contract #	Contact Person - Priving Basis	Last Repair Cost 500 List Price 5000 Contract Cost	Last Exchange Fee - Last BER Cost - Avg. Repair Cost -	Currency CAD Last Salvage Value -			
Part & Rule	ls & Parameters Rule	e Definition			Indicator					
1 🗖 🖃 Demand										
2 🔲 📖	Avail	ilable Qty:"2822 EA"	< Demand Qty:" 0 EA"		0					
3 🔲 🖨 Work Sco	ope									
4 🔳	No 0	0pen SB/AD Available	2		0					
5 🔲	No 0	Over Due Task Availa	ble			0				
6 🔳 🛄	No D	Due Task Available				0				
					Quick Link		T			

Figure 2.8 Reviewing Repair Pop-up

In the header section,

3. The Repair Order # and the Amendment number of the repair order are displayed.

Note: This field appears only if the pop-up is launched from "Authorize Repair Order" activity.

- 4. Use the drop-down list box to specify the level at which the Repair Order is to be reviewed. The system lists the values "RO Level" and "Line Level".
- 5. Use the drop-down list box to specify the line number of the Repair Order that is to be reviewed. The system lists all the line numbers available for the repair order.
 - 🎘 Note: The above drop-down fields appear only if the pop-up is launched from "Authorize Repair Order" activity.
- 6. Workscope displays one of the following colour icons based on the Rule defined for Workscope:
 - Red Icon If one of the definition under the Workscope is RED.
 - Orange Icon If one of the definition under the Workscope is Orange and No Red icon is available.
 - Green Icon If all the definition under the Workscope is Green.
- 7. **Demand** displays one of the following colour icons based on the Rule defined for Demand:
 - Red Icon If one of the definition under the Demand is RED.
 - Orange Icon If one of the definition under the Demand is Orange and No Red icon is available.
 - Green Icon If all the definition under the Demand is Green.

In the Part Details Card section,

- 8. The system displays the Part #, Part Description, Part Type and Serial/Lot # of the part.
- 9. The system displays the **Shop Job Type**, **RO Type** and **RO Priority** of the Repair Order.

In the Supplier Details card section,

- 10. The system displays the Repair Shop and Contact Person of the repair shop.
- 11. The system displays the Contract # and Pricing Basis of the part for which the contract is applicable.
- 12. In the Cost Details Card section,
- 13. The system displays the Last Repair Cost, Total Repair Cost, and Contract Cost of the part.
- 14. The system displays the Salvage Value | BER Cost, Last Salvage Value, BER Limit and Avg. Repair Cost of the part.
- 15. In the Part & Rule multiline,
- 16. Repair Details & Parameters displays the options "Cost", "Demand" and "Workscope".
- 17. **Rule Definition** displays the rules defined based on the parameter defined in the "Purchase Option Settings" activity of the "Logistics Common Master" business component.
- 18. Indicator displays one of the following colour icons based on the value of Rule definition:
 - Red Icon
 - Orange Icon
 - Green Icon
- 19. Use the Quick Links drop-down list box to specify the screen to navigate. The system lists the following screens:
 - View Contract Information
 - View Repair Cost History
 - Inquire Material Count and Location
 - Initialize Maint. Prog. & Update Compliance
 - Part Serial/Lot Name Plate



2.2 RELEASING REPAIR ORDER

A notification is sent to stores that the component must be shipped for repair to the repair shop. The status of the repair order on release changes to "**Released**". However, if the Quote Generation Basis attribute of the repair order is "Automatic", the Status can become "Quoted", "Confirmed" or "Authorized".

Subsequent to the release of parts for shipping, the Stock Issue for a repair order is generated automatically in "Fresh" status and a MMD is created.

- 1. Select the Edit Terms and Conditions link in the Create Repair Order page. The Edit Terms and Conditions page appears. *See Figure 2.7.*
- 2. Click the **Release For Shipping** pushbutton to release the components for repair, thereby changing the status of the repair order to "Released".
 - Note: This action is workflow-enabled. Notification messages can be sent as per the settings you have defined in the *Workflow Management* business component.

2.3 RECORDING ACKNOWLEDGEMENT OF THE REPAIR ORDER

The repair shop acknowledges the receipt of the repair order along with the component / part sent for repair. Once the repair shop acknowledges the receipt of the repair order, the status of the repair order is changed to "Acknowledged". However, if the status of the repair order is other than "Shipped" at the time of acknowledgement, the status will remain the same after acknowledgement.

- 1. Select Record Acknowledgement under the Repair Order business component. The Select Repair Order page appears.
- 2. Enter the Repair Order # directly and select the **Record Acknowledgement** link provided alongside, to acknowledge the repair order.

Or

3. Select the repair order by searching based on filter criteria. Click the hyperlinked Repair Order # in the multiline. The **Record Acknowledgement** page appears. *See Figure 2.10.*

* 🗎 Record Acknowledgement		« « 1 2 3 4 5) » 1 /667 🗐 🕮 🛱 🗲 ? 🗔	ŝ .
- Repair Shop Details		Date Format yyyy-dd-mm	
_	AFRO-000001-2011	Status Amended	
Repair Shop #	8S625	Repair Shop Supplier 287	
Address	1465 WOODLAND DRIVE SALINE 48176 MICHIGAN UNITED STATES		
Contact Person	OV01 - JACKSON	Phone # 734-944-6377	
Ref. Document Type	The system displays the	Ref. Document #	
Work Center #	details of the component		
	767C0000-01:F1	Part Description PNEU. TEMP SENSOR	
	767C0000-01	Serial # test-end-cmc-22	
Component #	C40 ·	Condition UnServiceable	
Customer #	490592	Customer Name Customer 202	
Customer Order #		Promised Delivery Date	
Repair Order Info Acknowledgement Ref. #	801	Date 2016-31-03 曲	
Customer Shipping Note #		Receipt Satisfactory Yes V	
Comments			
Comments			
	Record Acknowledgement		
Edit User Defined Details	View Issue D	tails	
- Record Statistics			
Created by	SBARABEY	Created Date 2011-16-11	
Last Modified by	DMUSER	Last Modified Date 2016-13-04	

Figure 2.10 Recording acknowledgement of the repair order

- 4. Enter a unique reference number identifying the acknowledgment of the receipt for the selected repair order, in the **Acknowledgement Ref. #** field.
- 5. Enter the date on which the receipt of the repair order is acknowledged, in the **Date** field.
- 6. Enter a unique number identifying the note attached by the customer while shipping the component / part, in the **Customer Shipping Note #** field.
- 7. Specify whether the component was received in the same condition as it was before shipment, in the **Receipt Satisfactory** drop-down list box.
- 8. Click the **Record Acknowledgement** pushbutton.

For further details,

- Select the Edit User Defined Details link to enter user defined details for the repair order.
- Select the View Issue Details link to view the issue details.

2.4 RECORDING REPAIR ESTIMATE OR QUOTATION DETAILS FROM REPAIR AGENCY

MRO's involve external agencies / third parties for repairing the parts as it is cost effective and easy to manage. In many cases, a single Repair Order is created for multiple parts to reduce the processing cost. However the repair agency might not be able to provide a quote for all the parts received and hence would be providing a partial quote. This provides the need to save the repair quote partially. The **Manage Repair Quote** activity allows recording partial quote for the parts in the repair order either at the part level or part quantity level.

2.4.1 MANAGING REPAIR QUOTE

- 1. Select Manage Repair Quote activity under the Repair Order business component. The Manage Repair Quote page appears. See Figure 2.11
- 2. Enter the repair order number directly and click **Go** button provided alongside.
- 3. Select the Amendment number of the repair order

RO Details

- 4. Use the drop-down list box to select the **RO Type**, which could be "Normal" or "Exchange".
- 5. Use the drop down list box to select **Exchange Type** of the component / part as "With Repair " or "Flat".
 - > Note: Ensure that the exchange type is set to blank if the RO Type selected is "Normal".
- 6. Select the **RO Category** and User Status of the Repair Order.
- 7. Use the drop-down list box to specify the repair classification that differentiates the tasks, which are over and above the contract (COA Contract Over and Above), between the operator and the MRO.

Repair Shop Details

- 8. Enter the **Repair Shop #** where the component must be repaired.
- 9. Select the **Currency** of the repair order.
- 10. Select the EDI Required? drop-down list box to specify whether the EDI capabilities in Repair Order are required or not.

Repair Cost Details

The system displays the following repair cost details as tiles:

- Total Repair Cost The sum of repair cost of all parts in the multiline.
- Total Exchange Cost The sum of the exchange cost of all parts in the multiline.
- Total BER Cost The sum of BER cost of all parts in the multiline.
- Total Salvage Cost The sum of salvage cost in the multiline.
- Total Cost. Total Cost = Total Repair Cost + Total Exchange Cost + BER Cost Salvage Cost + Additional Cost. (Additional Cost is the Cost incurred on the TCD's specified at the Document level for the Repair Order.)
- Base Currency Value The value of the repair order in base currency
- Total TCD Amount The sum of the TCD cost of all parts in the multiline.
- Total TCD Amount (Base Curr.) The value of the Total TCD Amount in base currency.

To proceed, carry out the following:

- Select the **Repair Quote Details** tab to record repair quote details.
- Select the Supplier, Part & Warranty Details tab to update supplier, part and warranty details.
- Select the View Repair Instructions link at the bottom of the page to view the repair instructions applicable for the Part-Serial/Lot.

ramco



Recording repair quote details

1. Select the **Repair Quote Details** tab. *See Figure 2.9*

🖈 🗉 Manage Repair Quote	f 🖽 ? 🐻
	•
Repair Order # R020000001 🔎 Go Amend. # 0 💌 RO Date 2020-01-24 Quote Status Complete RO Status Authorized	
RO Details View Reference Doc. Details Repair Shop Details	
Priority Shop Job Type Piece Part Repair Shop HAECO D Repair Shop Name HONG KONG A	IRCRAFT
Quote Basis Manual Expense Type Revenue Currency USD V Exchange Rate 1.0000000	
RO Category REPAIR RO Type Normal Contact Person O View Price Held Firm Time (Days) Exchange Type Core Return Option No Change Allowed EDI Required? No	
Repair Classification V User Status V Change Allowed V	
Repair Cost Details	
Total Repair Cost Total BER Cost Total Salvage Cost Total Cost Base Currency Value	
400.00 0.00 0.00 0.00 400.00 400.00	>
Repair Quote Details Supplier, Part & Warranty Details	
	Q
# Image: Line / Part # Description R0 Qty UOM Quote Qty Repair Cost Repair Cost Break New tites for forming to provide the pair Cost BER Cost 1 1/25012020-4 V Cross-impinging triplet 1.00 EA 1.00 100.00 Optional Amount BER Cost	S
2 2/25012020-4 Cross-implinging triplet 1.00 EA 1.00 100:00 Optional	
3 S/25012020-4 V Cross-impinging triplet 1.00 EA 1.00 100.00 Optional	
4 🗇 4/25012020-4 🗸 Cross-impinging triplet 1.00 EA 1.00 100.00 Optional	
View File BER Limit and facilitate external repair	Þ
Other Det	
Verride BER Limit Save Confirm	Confirm RO
Record Material Cost Record Discrepancy Analysis Edit Terms and Conditions Upload Documents Edit TCD Edit User defined Details	
Upipad Documents car LO cat USer deninea Detains Maintain Repair Shop Correspondence Authorize RO Generate RO Report	
Part - Serial # / Lot # Transaction History Attach Clause	
View Repair Cost History View Quotation History View Parameter Information	
View Tassue Details View Associated Doc. Attachments View Part Supply Chain Performance View Tassue Details View Associated Doc. Attachments View Tassue Details	
View Invoice View Material Costs View TCD View Part Repair Shop Mapping	

Figure 2.11 Recording quotation for the repair order

- 2. In the multiline, enter the line number of the repair order and part number in the Line / Part # field.
- 3. Enter the Quote Qty indicating the quantity of parts that is quoted
- 4. Enter **Repair Cost** and **Exchange Cost** for the part.
- 5. Click the hyperlinked **Repair Cost Break** field to manage the Material cost at Workscope level. On click of the hyperlink **Manage Workscope Level Quotation** page appears.
- 6. Select the **BER?** Check box to indicate that the part is declared as Beyond Economic Repair (BER). Enter the cost incurred in evaluating component as BER, in the **BER Cost** field.
- 7. Enter the estimated scrap value of the component / part, in the Salvage Value field.
- 8. Select the place where the component / part that has been declared as BER is to be salvaged, in the **Salvage Action** field. You can select from "By Repair Shop" or "By Operator".
- 9. Use the Reason for Scrap drop-down list box to specify the reason for scrap of the part.
 - > Note: The system ensures that the "BER Cost" is entered, If this field is selected.
- 10. Enter the **Delivery Date** of part from the repair agency.
- 11. Enter the unique reference number identifying the quotation in the Quotation Ref # field.
- 12. Select the Quotation Type. The system provides the options "Firm" and "Estimate".

13. Enter the Quotation Date.

- 14. Enter the list price of the component / part, in the List Price field.
- 15. Enter the exchange fee charged by the repair shop for an exchange repair order, in the **Exchange Fee** field.
- 16. Enter the total man-hours estimated to complete the repair order, in the Est. Man Hrs. field.
- 17. Enter the cost per person spent in hours, in the Cost / Man Hr. field.

> Note: It is mandatory to enter this cost if the estimated man-hours are specified.

- 18. The total estimated labor cost that will be incurred on the repair order, in the Labor Cost field.
- 19. The cost of material that will be incurred on the repair order, in the Material Cost field.
- 20. Enter any extra cost that will be incurred on the repair order, in the Misc. Cost field.
- 21. Enter any additional comments, pertaining to the quotation given by the repair shop, in the Remarks field.
- 22. Enter Quotation Comments, if you intend to select the Override BER Limit check box.
- 23. **Repair Inst.** indicates availability of any repair instructions defined for the Part / Part-Serial/Lot # combination, in the Notes link available in "Reliability Dashboard" and "Manage Engineering Document" screens. Click the icon to view the repair instructions.

Recording supplier and part warranty details

- 1. Select the **Supplier, Part & Warranty Details** tab. *See Figure 2.10.*
- 2. In the **Supplier Findings** group box, specify whether the discrepancies reported by the supplier are confirmed or not, in the **Confirm Discrepancies Reported** drop-down list box. The system provides the options "Fully Confirmed", "Partially Confirmed" and "No Fault Found".
- 3. Confirm the additional discrepancies detected by the supplier in the **Additional Discrepancies Detected** drop-down list box.
- 4. Enter any Additional Problems detected by the repair shop.
- 5. In the Warranty Details group box, use the drop down list box to select the Claim Acceptance Status of the repair order as "Fully Accepted", "Partially Accepted" or "Rejected".
- 6. Use the drop down list box to select Claim Accepted On as "Full", "Labor", "Material" or "Others".
 - Note: If the under warranty field is set to "No", then the system will display the value as blank for both Claim Acceptance Status and Claim Accepted On.

Repair Quote Details Supplier,	Part & Warranty Details				
Customer Information					
Customer #	490592	Customer Name	Customer 201	Customer Order #	CO-000033-2011
Promised Delivery Date					
Part #	767C0000-01:f1958	Mfr. Part #	767C0000-01	Part Description	PNEU. TEMP SENSOR
Serial #	111	Component #	C748	Condition	UnServiceable
Reason #		Reason for Removal			
- Supplier Findings					
Confirm Discrepancies Reported	Fully Confirmed 💌	Additional Discrepancies Detected	No 💌	Additional Problem	S
	TEST INFORMATIOMWORKSCOPE: 0\	VERHAULSERVICE BULLETINS: SB 1234567FINDIN	GS: TESTING TESTING TESTING	COST: \$2000.00TAT: 14 DAYS	
- Warranty Details					
Under Warranty ?	Not Evaluated	Ref. Document Type		Ref. Document #	
Warranty Claim On		Warranty Claim #		Supplier Warranty Ref #	
Warranty Notes		Claim Acceptance Status	•	Claim Accepted On	
Reason					

Figure 2.12 Recording supplier, part and warranty details for the repair order

To proceed further,

7. To exempt component/parts from the organization BER Limit and facilitate external repair, select the **Override BER** Limit check box.



- 8. Click the Save pushbutton to save the repair quote details.
- 9. Click the **Confirm** pushbutton to confirm the repair quote details.

For further details,

- Select the **Confirm RO** link to confirm the repair order.
- Select the **Record Material Cost** link to record the material cost of the repair order.
- Select the **Record Discrepancy Analysis** link to record the analysis on discrepancy.
- Select the Edit Terms and Conditions link from the bottom of the page to record the terms and conditions of the repair order.
- Select the Edit TCD link to modify the taxes, charges and discounts of the repair order.
 - Note: The system does not allow the user to add or amend TCD details when the Repair Receipt is in the "Received" status.
- > Select the Edit User Defined Details link to enter the user defined details.
- Select the Maintain Repair Shop Correspondence to record/update details of correspondence with the repair shop associated with the repair order.
- Select the Attach Clause link to attach clauses to the Purchase Order/Repair Order.
- Select the View Repair Cost History link to view the history of the repair order.
- Select the View Quotation History link to view the history of the quotation.
- Select the View Parameter Information link to view the parameter details.
- Select the View Issue Details link to view the issue details.
- Select the **Upload Document**s link to upload the documents.
- Select the View Associated Doc. Attachments link at the bottom of the page to view associated document attachments.
- Select the View Part Supply Chain Performance link to view part supply chain performance.

2.4.2 ENTERING MATERIAL COST FOR THE REPAIR ORDER

1. Select the **Record Material Cost** link in the **Manage Repair Quote** page. The **Material Cost** page appears. *See Figure 2.11*.

7	r	D	Material Cost										ţ	+	?	0
-		lepai	r Order Details													
				Repair Order #	AFRO-000010-2011			,	Amendment #	0						
				Part #	767C0000-01:f1958				Status	Quoted						
				Mfr. Part #	767C0000-01			Pa	rt Description	DRILL COU	UNTERBORE					
				Serial #	114				Component #	C751						
				Material Cost	20.00				Currency	CAD						
-		1ater	ial Details													
	(1	•	1 -1/1 > >> +	O O O T T					e # #		I		-			Q
	#		Matl Line #	Mfr. Part #		Part Description			Qty.			UOM		Unit (ost	
	1		1	A116-1E:U1918							2.00	EA				
	2															
			4													×.
							Record Material Cost									
E	dit T	CD														
)-F	lecor	d Statistics													
				Created by	FDUVAL				Created Date	2011-21-1	11					

Figure 2.13 Specifying material cost

The system displays the repair order details in the **Repair Order Details** group box.

Note: If the Shop Job Type of the repair order is "Component" and the quantity of the part that required repairs is one, the Part #, Serial #, Part Description and Component fields display values. However, if the number of parts to be repaired is more than one, the Part # field displays "Multiple" and the other fields remain blank.



- 2. Enter the **Manufacturer Part #** of the parts that are to be used in the repair of the component / part on which the repair order is raised.
- 3. Enter the quantity of the part in the **Quantity** field.
- 4. Enter the **UOM** of the part.
- 5. Enter the **Unit Cost** of the part.
- 6. Click the **Record Material Cost** pushbutton.

To provide further details,

• Select the Edit TCD link to enter the taxes and charges details for the repair order.

2.4.3 SPECIFYING TERMS AND CONDITIONS IN RO WHILE RECORDING QUOTATION

1. Select the Edit Terms and Conditions link in the Manage Repair Quote page. The Edit Terms and Conditions page appears. *See Figure 2.12.*



Figure 2.14 Recording repair order terms and conditions during quotation

The system displays the details of the repair order for which terms and conditions must be specified.

Recording terms and conditions

- 2. Select the Terms and Conditions tab. See Figure 2.14.
- 3. In the Terms and Conditions group box, Use the drop down list box to select the **Advance Payable** option as "Yes" or "No" to specify whether advance is payable for the specified repair order or not.
- 4. Enter the pay term to define the terms of payment, in the Pay Term field.
- 5. Select the mode in which the payment must be made, in the Payment Mode drop-down list box.



- 6. Select the priority for the payment to be made in the **Payment Priority** drop-down list box.
- 7. Select the **Matching Type** to indicate the manner in which the quality and the values of goods available at different points in the procurement process must be compared. The system provides the options "Four way at RR" and "Four way at RO".
- 8. Enter the code identifying the supplier to whom the payment is to be made, in the Pay to Supplier # field.
- 9. Use the drop down list box to select the Pay To Supplier Address ID.
- 10. Specify who must bear the insurance amount of the shipped parts, in the **Insurance Liability** drop-down list box. The system provides the options "Ours", "Supplier" and "Others".
- 11. Use the drop down list box to specify DD Charges Borne By as "Repair Shop" or "Self".

In the Special Warranty Terms group box, specify

- 12. Use the Under Warranty? drop-down list box to indicate whether the parts are covered by a warranty agreement.
- 13. Use the Warranty Basis drop-down list box to specify the basis for the warranty of the parts.
- 14. The identification number of the warranty agreement in the Reference Agreement #.
- 15. Use the Warranty Begins On drop-down list box to specify the date of commencement of warranty for the parts.
- 16. The period for which the parts in the repair order are covered by the warranty agreement, in the **Warranty Duration**. Specify the UOM for the effective warranty period in the drop-down list box beside the input field.
- 17. The number of Flight Hours for which the parts in the repair order are covered by the warranty agreement.
- 18. The number of Flight Cycles for which the parts in the repair order are covered by the warranty agreement.

Recording shipping and GTA details

1. Select the Inbound Shipment and GTA Details tab. See Figure 2.13.

Terms and Conditions Inbound Shipment and G	TA Details Spares Shipped
Core Return Shipment	
Return to Location	RAMCO OU Return Warehouse # YULCSOV
Return Core By	As per routing guide 💌 Shipping Payment COD 💌
Packaging Code	BOX V Spares Return
Certificate Type	8130-3 Tinspection Type Self T
INCO Term	CarrierCode V
Port Of Departure	Port Of Destination
Delivery To Code	T
Packaging Notes	
Shipping Note:	
Spares Return Shipment	
Return Spares B	Shipping Payment
Packaging Code	
General Terms Agreement Details	
GTA Reference #	Ref. Document Date
GTA Remarks	

Figure 2.15 Recording shipping and GTA details during quotation

- 2. The **Return Warehouse** to which the goods must be returned after repair.
- 3. Select the method of returning the component, in the Return Core By drop-down list box.
- 4. Select the mode of payment for shipping a component, in the Shipping Payment drop-down list box.
- 5. Select the packaging method of the component / part that is returned, in the Packaging Code drop-down list box.
- 6. Select the Certificate Type that is issued to the specified supplier.
- 7. Specify the person who must perform the inspection checks on the component at the time of delivery, in the **Inspection Type** drop-down list box. The system provides the options "Self" and "By Inspector".



- 8. Enter the code identifying the part which is to be shipped for repair, in the **Part #** field in the multiline.
- 9. Enter the unique code identifying the shipping destination in the Delivery To Code field.

Recording shipped spares details

1. Select the Spares Shipped tab. See Figure 2.14.

Ten	ns and	d Conditions	Inbound Shipment and GTA De	ails Sp	ares Shipj	ped									
	pares	Shipped —													
44	•	1 - 1 / 1	• • + - □ ⊀ ¢ ¢ T	Tx								All		v	Q
#		Part # 🔎	Part Description	Qty.	UOM 🔎	Stock Status		Location		From Warehouse # 🔎	Return Type		Return to Location		Return V
1		:35895	EXPRESS U.S.RATE SH EET		12	Accepted	~	RAMCO OU	~	0123	Non Returnable	~	RAMCO OU	*	
2						Accepted	*	RAMCO OU	•		Non Returnable	~	RAMCO OU	~	
		4													۱.

Figure 2.16 Recording shipped spares during quotation

- 2. Enter the quantity of part to be shipped for repair, in the **Qty.** field.
- 3. Enter the unit of measurement of the part, in the **UOM** field.
- 4. Select the location from where the part must be issued, in the Location field.
- 5. Enter the Warehouse # from where the part must be issued.
- 6. Select the **Return Type** of the part. The system provides the options "Returnable" and "Non-Returnable".
- 7. Select the location to which the part must be returned, in the Return To Location drop-down list box.
- 8. Enter the **Warehouse #** to which the part must be returned.
 - Note: The return details of the spares as specified in Steps 14 and 15 needs to be specified only if the *Return Type* field is set as "Non-Returnable".
- 9. Click the Edit Terms And Conditions pushbutton.

To provide further details,

• Select the Generate RO Report link to generate the Repair Order Report.

Recording discrepancy analysis

1. Select the **Record Discrepancy Analysis** link in the Manage Repair Quote page. The Record Discrepancy Analysis page appears. *See Figure 2.15.*



*	Record Disc	repancy Analysis									/\$ i	•	+	?	
								Date Forma	t yyyy-dd-mm	I					
	Repair Order Details														
		Repair Order #	REP-000370-2016					Amend. #	¢ 0						
		Part #	0-0440-4-00(Status	s Quoted						
		Mfr. Part #	0-0440-4-					Serial #	6565654						
		Component Replacement #						Replacement Date	e						
		Source Doc Type						Source Document #	ŧ						
	Discrepancy Info ——														
44	< 1 - 1 / 1 		T _x					2 🗎 💴 🖛 🗰	IIA III			Ŧ			Q
#	Discrepancy #	Discrepancy Descr	ption [Discrepancy Status		ATA #	Part # 🔎	Serial #	Comments						
1	DISC-009199	Cracked Surface	F	Fully Confirmed	~	12-21	0-0440-4-	6565654	Cracked Surf	ace					
2			F	Fully Confirmed	~										
					Record Observation:										
					Record Observation:	•									

Figure 2.17 Recording discrepancy analysis

- 2. The system retrieves the details of the repair order for which the discrepancy analysis must be recorded.
 - Note: You can open this page only if the Repair Order's Shop Job Type is "Component". In other words, the repair order must specify only a single component / part for repair.
- 3. Specify the **Discrepancy** reported, which could be "Fully Confirmed", "Partially Confirmed" or "No Fault Found".
- 4. Click the Record Observations pushbutton.

Specifying the tax, charge or discount details of the part

Whenever the material cost is quoted for a repair order, in addition to the quantity and rate, applicable taxes such as duty, sales tax, discount and freight charges may be specified. All these affect the repair order either positively or negatively. While taxes and charges add to the basic value, discounts reduce the value. The tax, charges and the discount vary from time to time.

- 1. Select the Edit TCD link in the Manage Repair Quote page. The Edit TCD page appears. See Figure 2.16.
- 2. Select the TCD Mode, which can be "Document" or "Quote Line # / Part #".
- Use the Quote Line # / Part # drop-down list box to select the line number, which is already quoted in the "Manage Repair Quote" page.
- 4. Click the **Get Details** pushbutton to retrieve the TCD details for the Quote line # / Part # selected.

	Edit TCD											7\$		4	+	?	¢ K
	Repair Order Info																
			Repair Order # AFRO	-000244-2012						Amend. # 0							
			Repair Order Date 2012-	01-30						Status Qu	oted						
			Repair Shop # 00198						F	Repair Shop Su	oplier 9						
			TCD Mode Docu	ment 💌					Quote Line	e # / Part #	Ŧ						
						Get Detai	s										
			TCD Value							Currency US	þ						
	TCD Information																_
44	4 1 - 1 / 1	++ + - 0	□ ☆ ☆ ☆ ▼ ▼						2 🗇 😒 🕻		All		•				Q
#	Seq #	TCD Mode	Quote Line # / Part #	TCD # P		TCD Variant #		TCD Type		Basis		Taxable	Amount		тс	D Rat	e
1		Document 🗸		V ATSVAT		ATSVAT		Tax		Percentage							
2		Document 🗸		*													
					Enter TC	D details											
	•																•
						Edit TCD											
-	Record Statistics																
			Created by						G	reated Date							
			Last Modified by						Last Mo	odified Date							

Figure 2.18 Specifying tax, charges and discount details for the repair order



- 5. Enter the TCD Mode, Quote Line # / Part # fields in the multiline.
- 6. Enter the code identifying the TCD in the **TCD #** field.
- 7. Enter the TCD Variant #.
- 8. Enter the taxable amount on which the TCD amount will be calculated in the Taxable Amount field.
- 9. Enter the TCD Rate.
- 10. Use the **Pay to Supplier #** drop-down list box to select the supplier to whom the payment must be made.
- 11. Select the payment currency of the repair order, in the Payment Currency field.
 - Note: 1) For the TCD #s of the TCD Type "Charge" or "Discount", the payment currency you specify must be the same as the Quotation currency. 2) For the TCD Type "Taxes", the currency can be Quotation currency or Base currency.
- 12. Click the Edit TCD pushbutton.

2.4.4 MANAGING WORKSCOPE LEVEL QUOTATION

This screen enables the user to record the Repair Quotation and the Material cost at Workscope level. Workscope Level Quotation will be a break-down for the Repair Quotation entered. In the Workscope Level Quotation, provision will be available to modify the Repair Cost that will be updated back in Part Level Quotation.

1. Select the hyperlinked **Record Cost Break** field in the **Manage Repair Quote** page. The **Manage Workscope Level Quotation** page appears. *See Figure 2.17*.

	Manage	Workso	ope Level Quotatio	on							F #	RAMCO OU-Ramco	Role 🔻 📿	₽ ←	- ?
uote l	Line #/Part #	1 / 7670	0000-01:F1958	Repair Cost	2,000.00	Part # / Desc	767C0000- ription 01:F1958/P SENSOR	'NEU.	. TEMP	Serial # test-end			Lot #		
usto	mer Info. —														
		Custo	omer # 490592			Customer Name	e Customer 201				Custor	mer Order # 49059	2		
		Sale C	ontract			Customer Scope	e			C	ustomer	Scope Notes			
uota	tion Details														
			an 🕨 🕨 🛨 🗖 🗇	8 7 7			人山	5	x 2 2 × C		*	All	▼ Search		
		Line #	Workscope Line #	Repair Process Code	v	Vork Unit Type	Work Unit # 🔎		Repair Cost	Est. Man Hrs		 Labor Cost 	Material	Cost	
-		~	1::Repair v	/	~		,			3					

Figure 2.19 Managing Workscope level quotation

The system displays the repair order details in the **Repair Order Details** group box.

2. Use the Quote Line # / Part # drop-down list box to specify the Quote Line # and Part # for which the workscope is managed.

In the Quotation Details multiline

- 3. Use the **Quote Line #** drop-down list box to specify the line number of the quotation.
- 4. Use the **Workscope Line #** drop-down list box to specify the line number of the Workscope.
- 5. Specify the **Repair Process Code** and **Work Unit Type** for the part.
- 6. Specify the Repair Classification and enter the Repair Cost of the part.

- 7. Enter the Est. Man Hrs, Cost/Man Hours, Labor Cost, Material Cost and Misc. Cost.
- 8. Click the Save pushbutton to save the entered workscope details for the quotation at line level.
 - Note: The "Save" pushbutton is not visible when the "Manage Workscope Level Quotation" page is invoked from "View Repair Order".

Managing material cost in Wworkscope Level Quotation

The Material Cost break-down at the Workscope level can be defined if Material Cost is recorded in the Quotation Line # level in the Manage Repair Quote screen and at Workscope level in the Manage Workscope Level Quotation screen.

1. Select the hyperlinked Material Cost (Workscope) field in the Manage Workscope level quotation page. The Material Cost popup appears. *See Figure 2.18*.

aterial (Cost										Co.	0	9	?
- Rep	air Ord	er Details												
Rep	pair Orde	er # REP-000246-2020		Amend. #	0					Status	Quoted			
f	Repair S	hop 00198		Repair Shop Name	OV01 - JE	VIC E	BELANGER		Mat	erial Cost	10.00			
Quote Lir	ne #/Pa	rt # All	▼ Work	kscope Quote Line #	4 Qt. Lin	e: 2		▼ Material	Cost (Wo	orkscope)				
- Mat	erial De	etails												
46 4	1	- 2/2 🕨 🗰 🕇 🗇	» Y X	人	9 🖹 🖸	2 ×	C X	∓ + Ⅲ 1	4 %	All		010101010	T	Search
#	E	Quote Line #/ Part #	Quote Part Desc.	Workscope Quote I	Line #		Repair Prod	ess Code			Work Uni	it #		
1	1	2/repl3 🗸		4 Qt. Line: 2		~								
2		All 🗸		All		~								
3	1	All 🗸		4 Qt. Line: 2		~								
		4			Record	Mate	erial Cost							

Figure 2.20 Material Cost popup

In the Repair Order Details group box,

- 2. Use the **Quote Line # / Part #** drop-down list box to specify the Quote Line # and Part # for which the material cost is managed at workscope level.
- 3. Use the **Workscope Quote Line #** drop-down list box to specify the combination of Workscope Quote Line # and Quote Line #.

In the Material Details multiline,

- 4. The system displays the **Repair Process Codes**, **Work Unit #** and **Work Unit Comments** for the Workscope Quote Line # and Quote Line # combination.
- 5. Click the **Record Material Cost** pushbutton to save the Material Cost break-down at the Workscope level.

2.5 AUTHORIZING A REPAIR ORDER

Multi-level authorization of repair order is done based on the various stages that are already defined in the "Workflow Management" business component. The status of the repair order depends on the settings for authorization. For example, if the user is in "Sequence 5", then the system sets the status as "Under Authorization". If the user is in the last sequence, the system sets the status as "Authorized".

1. Select Authorize Repair Order activity under the Repair Order business component. The Select Repair Order page appears. See Figure 2.19.

∼ >	Rep	air Order Management	> Repair Order > Select Rep	oair Order		<u>~</u>							
*	D	Select Repair Order	,								74 🛱	+ 2	2
	Direct	Entry											
		Repair Order	#	View RO									
P	rimai	y Search Criteria Ad	dvanced Search Criteria										
		Repair Order #				The system	n retrieves th		St	atus		T	r
		Date: From / To	RO Date 💌 20-08-2017	20-09-2017		· · · · · · · · · · · · · · · · · · ·	are in "Con		Repair S	hop			
		Buyer Group	•						Custom	er #			
		Part # / Mfr. Part #				or "Under	Authorizatio	n" status	L.	ot #			
		Expense Type	•						Pri	ority			r
		Ref. Document Type	•			Ref. Document #			Customer Authorization St	atus			
		Repair for	•										
								[
									On clicking this	icon, RO			
						Search			Approval Histor	y Pop-up	will		
_	-								be displayed				
	Searc	h Results											
44	4	1 - 10 / 16 🕨 🕨 📑	T T _x				7		All All		•		
#		Repair Order #	Repair Shop #	Repair Shop	Part #	Mfr. Part #	Serial #	App. His.		Shipped ?	Part Typ	e .	ATA
1		REP-000221-2017	00000	Supplier 2	0-00-21200-	0-00-21200-19927-1			R I	No	Raw Mat	erial	
2		REP-000222-2017	00060	Supplier 3	N21F2-90-R-	N21F2-90-R-1	EF2E8E1D-2		R 1	No	Compone	:nt	00-0
3		REP-000223-2017	00198	Supplier 9	0-0440-4-	123	MSN-2016-25		R. I	(es	Compone	ant	72-
4		REP-000224-2017	00198	Supplier 9	0-0440-4-	123	MSN-2016-27		P 1	(es	Compone	ent	72-
		REP-000225-2017	00000	Supplier 2	0-1:09058	0-1	5532B7BA-7D		5	/es	Compone		138

Figure 2.19 Authorizing repair orders

- 2. Search for the repair orders to be authorized and click the Search pushbutton.
- 3. Select the repair orders to be authorized and click the Authorize RO pushbutton.
 - Note: This action is workflow-enabled. You can configure further processing of this document in the "Workflow Management" business component.
 - On authorization of the repair order, if "BER" is set as "Yes" and "Salvage Action" is set as "By Repair Shop", the system generates a purchase request.
 - For repair order with customer order reference, the system authorizes the repair order only if Quotation Status of customer order is "Quoted" or "Not Required".

2.6 RECORDING REPAIR SHOP CORRESPONDENCE DETAILS

You can record the details of correspondence with a repair shop for repair orders, which are in "Draft", "Fresh", "Cancelled", "Released", "Issued", "Acknowledged", "Quoted", "Confirmed", "Authorized", "Under Auth.", "Amended" or "BER Closed" status.

- 1. Select the Maintain Repair Shop Correspondence link under Repair Order business component. The Select Repair Order page appears.
- 2. Provide filter criteria to search for a repair order and click the Search pushbutton.
- 3. Click the hyperlinked repair order number in the multiline, to record the repair shop correspondence details. The Maintain Repair Shop Correspondence page appears. *See Figure 2.20*.
 - Note: If a single part is specified for repair, the Part #, Serial # and Part Description fields displays values. If more than one part is specified, the Part # field displays "Multiple" and Part Description, Serial #, Component # fields remain blank.
- 4. Use the Amendment number drop-down list box to select the amendment number of the repair order for which the correspondence details must be recorded.

*	D	Maintain Repair	Shop Correspondence			44 4 1 2 3 4 5	▶ ▶ 1 /2681	III 74	•	⇒ ←	?	Co K
	Repai	ir Order Info				Date Format	yyyy-dd-mm					
			Repair Order #	AFRO-000001-2011		Amendment #	1 💌					
			Repair Order Date				Amended					
			RO Type	Normal		Remarks						
			Ref. Document Type			Ref. Document #						
			Work Center #									
-	Repai	ir Order Info										
			Repair Shop #			Repair Shop	Supplier 287					
				1465 WOODLAND DRIVESALINE48176MICHIGANUNITED STATES								
				OV01 - JACKSON LETITIA			734-944-6377					
	Part I	Details	Email	letitia.jackson@liebherr.com		Fax						
			Part #	767C0000-01:F1958		Part Description	PNEU. TEMP SENSOR					
				767C0000-01			test-end-cmc-22					
			Component #				UnServiceable					
-	Corre	spondence Details –										
44	4	1 - 1 / 1 > >>	+ - 0 % ¢ ¢ T	Tx					Ŧ			Q
#		Date	Repair Shop Remarks		Buyer Remarks							
1		2016-01-04										
2												
_												
				Maintain Correspon	idence Details							
				View Repair Order								
	Recor	rd Statistics										
			Last Modified by			Last Modified Date						

Figure 2.20 Recording correspondence details

- 5. Enter the **Date** on which the repair shop correspondence details are recorded for a repair order.
- 6. Enter the Repair Shop Remarks to state the repair shop remarks for the repair order line number.
- 7. Enter the Buyer Remarks to state the buyer remarks for the repair order line number.
- 8. Click the Maintain Correspondence Details pushbutton to record the repair shop correspondence details.

For further details,

• Select the View Repair Order link to view the repair order details.

2.7 AMENDING A REPAIR ORDER

When the quotation or the work scope requires a revision after authorization, an amendment is made. You can also amend the material cost, terms and condition, TCD and the discrepancies that are reported. After amendment, the repair order must be re-authorized.

2.7.1 AMENDING THE QUOTATION

- 1. Select Amend Repair Order under the Repair Order business component. The Select Repair Order page appears.
- 2. Enter the repair order number directly and select the Amend Quotes link provided alongside.

Or

- 3. Search for the repair order and click the **Search** pushbutton. Select the hyperlinked repair order number in the multiline.
- 4. The Amend Quotes page appears. See Figure 2.21.

The system retrieves the details of the quotation.

- 5. Enter the **Repair Shop #** and the **Contact Person** in the repair shop
- 6. Select the type of the repair order in the **RO Type** drop-down list box. The system provides the options "Normal" and "Exchange".
- 7. Select the Exchange Type of the component as "With repair" or "Flat",.

> Note: Leave the exchange type blank, if the RO Type selected is "Normal".

- 8. Select the category to which the repair order belongs in the RO Category drop-down list box.
- 9. Select the user status of the repair order, in the User Status field.
- 10. Use the **Repair Classification** drop-down list box to differentiate tasks, which are over and above the contract (COA Contract Over and Above), between the operator and the MRO.

namo




Figure 2.21 Amending the quotation

Recordings part and quotation details

- 1. Select the Maint. Object & Quotation Details tab. See Figure 2.21.
- 2. In the Maint. Object Details multiline; enter the estimated Repair Cost and Exchange Cost for the part.
- 3. Enter the number of parts declared Beyond Economic Repair, in the BER Quantity field.
 - Note: The BER quantity must be Zero for parts, if the RO Type is "Exchange". Additionally, the system does not you to modify the quantity to a lesser value, though you can change the quantity to a higher value than previously specified.
- 4. Enter the cost incurred in evaluating component as BER, in the **BER Cost** field.
- 5. Use the **Salvage Action** drop-down list box, to specify whether the "Repair Shop" or the "Operator" must salvage the component / part that has been declared as "BER".
 - Note: You must select a salvage action, if the BER quantity is greater than Zero. Alternatively, if you do not select any salvage action, the BER quantity must be Zero.
- 6. Enter the estimated scrap value of the component / part, in the Salvage Value / Unit field and its Remarks.



- 7. In the Quotation Details group box, enter the reference number of the quotation in the Quotation Ref # field.
- 8. Select the Quotation Type, which could be "Firm" or "Estimate".
- 9. Enter the date on which the repair shop confirms the quotation in the **Quotation Date** field.
- 10. Enter the validity time frame given by the repair shop for the quotation, in Price Held Firm Time drop-down list box.
- 11. Use the **Currency** drop-down list box to select the currency of the quotation.
- 12. Enter the list price of the component / part, in the **Component List Price** field.
 - > Note: The above field is mandatory if the Shop Job Type is specified as "Component".
- 13. Enter the total man-hours estimated to complete the repair order, in the Est. Man Hrs. field.
- 14. Enter the labor rate per person per hour, in the Cost / Man Hr. field.
- 15. Enter the cost of labor that will be incurred on the repair order, in the Labor Cost field.
- 16. Enter the cost of material that will be incurred on the repair order, in the Material Cost field.
- 17. Enter any extra cost that will be incurred on the repair order, in the Misc. Cost field.
- 18. Enter the total estimated cost of the repair order, in the **Total Repair Cost** field.
- 19. Note: The amount of total repair cost you specify must be equal to the sum of the total cost of all the records in the "Maint. Object Details" multiline.
- 20. Enter Quotation Comments, if you intend to select the Override BER Limit check box.

Recording supplier and part warranty details

- 1. Select the **Supplier, Part & Warranty Details** tab. See Figure 2.22.
- 2. In the **Supplier Findings** group box, amend the additional discrepancies detected by the supplier, which could be "Yes" or "No", in the **Additional Discrepancies Detected** field.
- 3. In the Warranty Details group box, use the drop down list box to select the Claim Acceptance Status of the repair order as "Fully Accepted", "Partially Accepted" or "Rejected".
- 4. Use the drop down list box to select **Claim Accepted On** as "Full", "Labor", "Material" or "Others".
 - Note: If the under warranty field is set to "No", then the system will display the value as blank for both Claim Acceptance Status and Claim Accepted On
- 5. Enter the reference document you want to attach to the amended repair order, in the File Name field.
- 6. To exempt component/parts from the organization BER Limit and facilitate external repair, select the **Override BER** Limit check box.
- 7. Click the **Amend Quotes** pushbutton.
 - Note: If the RO status is "Closed", the system ensures that the "Quotation Ref #", "Remarks (in Quotation details)", "Total Cost", "Material Cost", "Labour Cost", "Misc. Cost" and "Total Repair Cost" fields are modified. If the RO status is "BER Closed", the system ensures that the "Quotation Ref #", "Remarks (in Quotation details)", "Total Cost", "Material Cost", "Labour Cost", "Misc. Cost", "BER Cost" and "Total Repair Cost" fields are cost", fields are modified.



Maint. Object & Quotation Details Supplier, Part 8	Warranty Details	
Customer Information		
Customer #	490592 Customer N	ame Customer 202
Customer Order #	CO-000004-2011 Promised Delivery	ate
Part Details		
Part #	767C0000-01:F1958 Part Descrip	tion PNEU. TEMP SENSOR
Mfr. Part #	767C0000-01 Seri	al # test-end-cmc-22
Component #	C40 Cond	tion UnServiceable
Reason for Removal	Reason For Rem	oval
- Supplier Findings	Fully Confirmed Additional Discrepancies Dete	
Confirm Discrepancies Reported	Additional Discrepancies Dete	ted No V
Additional Problems		
Comments		
Under Warranty	Warranty Clain	0.0
Ref. Document Type	Ref. Docume	
Warranty Claim #	Supplier Warranty R	
Warranty Claim # Warranty Notes		1 # 70
Claim Acceptance Status		
	Claim Accepter	
Reason		

Figure 2.22 Amending supplier, part and warranty details

To provide further details,

- Select the **Confirm RO Amendment** at the bottom of the page to modify and confirm the selected RO.
- Select the Amend Material Cost link to amend the material cost of the repair order.

Follow the steps listed under the "Recording material cost of the repair order" topic.

• Select the **Amend Reported Discrepancies** link to amend the discrepancies reported on the repair order.

Follow the steps listed under the "Recording discrepancy analysis" topic.

• Select the **Amend Terms and Conditions** link from the bottom of the page to record the terms and conditions of the repair order.

Follow the steps listed under the "Specifying terms and conditions in a repair order while recording quotation" topic.

• Select the Amend TCD link to amend the tax, charge and discount details of the repair order.

Follow the steps listed under the "Specifying the tax, charge or discount details of the part" topic.

- Select the **Amend User Defined Details** link to amend the user defined details of the repair order.
- Select the Generate RO Report to generate the RO report.
- Select the **Maintain Repair Shop Correspondence** to record/update details of correspondence with the repair shop associated with the repair order.
- Select the View Repair cost History link to view the cost information on previous repairs incurred for the part.
- Select the Amend TCD link to amend the tax, charge and discount details of the repair order.
- Select the **View Parameter Information** link to view the parameter values updated for the component / part for which the repair order has been created.
- Select the **View Quotation History** link to view the details of quotations raised for the repair order.
- Select the View Issue List link to view the issue details raised for the repair order.
- > Select the View Part Supply Chain Performance link to view part supply chain performance

Confirming RO amendment

- 1. Select the Confirm RO Amendment link in the Amend Quotes page. The Edit Repair Order page appears. See Figure 2.23.
- 2. Enter the **Repair Shop #** to indicate the number identifying the shop where the component must be repaired field.
- 3. Specify the **Repair Shop Shipping Date** to indicate the date on which the component is expected to be shipped.
- 4. Select the **RO Category** to specify the category to which the repair order belongs.
- 5. Enter the number identifying the warehouse that issues the component in the From Warehouse #.
- 6. Select the location to which the component should be returned after repair, in the Return to Location drop-down list

box.

- 7. Enter the warehouse to which the component must be returned after repair, in the Warehouse # field.
- 8. Specify the **Spares** to indicate whether spares are shipped along with the component.

Recording part and work scope details

1. Select the Maint. Object & Work Scope Details tab. See Figure 2.23.

삼 > Repair Order Management >	Repair Order > Edit Re	pair Order			<u>^</u>						
\star 🔳 Edit Repair Order						•	< 1 2	3 4 5 🕨 🗰	HAECO OU-HAECO RO		🗲 📰 ? 🗔
Repair Order Info											
Repair Order #	R02000002			Amend. #					Status	Draft	
RO Type	Normal 💌			Expense Type	Revenue 💌				RO Date	2020-01-25	
Capex Proposal #		Q									
Remarks											
- Repair Shop Details							_				
Repair Shop #	HAECO	⊇ 0		Repair Shop	HONG KONG AIF	RCRAFT	ENGINE		Address ID	1 Ø	
Address	нк										
Contact Person		Q		Phone #	2767 6210				Email	procurement@haeco.c	om
Fax	-			EDI Required?							
- Repair Order Details											
Priority	NRM 🔻			For Aircraft Reg #	B-HSD		Q		Shop Job Type	Component 🗢	
Exchange Type	•			Currency	-			Re	quested Repair Time		-
Repair Shop Shipping Date	2020-01-25		Sh	nipping Date Control	-				RO Category	•	
User Status	-			From Warehouse #	BKK306		Q		Stocking Location	HAECO OU	
Return to Location	HAECO OU 🔻		R	leturn Warehouse #	BKK306		Q			No Change Allowed	-
Spares	No 💌				Not Applicable	-			Description		
Ref. Document Type		•		Ref. Document #					Work Center #		Q
Station					Manual 💌			Ma	tl Return Authority #		
Discrepancies Associated?	No			Repair Classification			•		Move To	Warehouse	
Repair for & Expense Details Repair for	Self		Renair f	or Trading Partner #					Trading Partner Name		
RO & Inv. Org.			repair i	Expense to					induing Farance manne		
Customer Information	104111										
Customer #	СРА			Customer Name	CATHAY PACIFIC	C AIRWA	YS LIMI		Customer Order #	COS20000021	Q
Promised Delivery Date											
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Edit User Defined Details Upload Documents Attach Clause			Edit Discrepancies Authorize RO					Generate RO Report Maintain Repair Shoj			
View Repair Cost History View Parameter Information View Associated Doc. Attachments View Part Information View Customer Order			View Part Repair Shop View Warehouse Plann View Warranty Ref. Do View Shipping Note	ning Parameter				View Parts Under Re View Warranty Clain View Part Supply Ch View Advance Shippi	ain Performance		

Figure 2.23 Amending repair order

- 2. In the Maint. Object Details, specify the Part # and Quantity to be confirmed.
- 3. In the Work Scope, specify the Work Unit # to indicate the work unit to be performed on the component.



- 4. Click the **Print Task Card** pushbutton to print the task card details.
- 5. Click the Get Pending Tasks pushbutton to fetch the pending tasks into the work scope multiline.
- 6. Click the **Confirm RO** pushbutton to confirm the repair order.
 - Note: This action is workflow-enabled. You can configure further processing of this document in the **Workflow Management** business component.

2.8 WORK COMPLETION AND TEARDOWN REPORT

2.8.1 WORK COMPLETION AND TEARDOWN REPORT

An MRO/Operator receives a post execution document that contains work completion and teardown information against a repair order. This information can be recorded in the system and viewed or edited using this screen. This screen also enables the user to know the means in which the information can be captured/modified in 'Work Completion and Teardown Report'. This screen bulk processes completion records of multiple repair orders.

- 1. Select Work Completion and Teardown Report under the Repair Order business component. The Work Completion and Teardown Report page appears. *See Figure 2.24.*
- 2. Select the Create or Edit/View radio button to create or modify/view the Work Completion and Teardown report...
- 3. In the Search Criteria group box, use the Exec. Order drop-down list box and specify the search criteria.

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Figure 2.24 Work Completion and Teardown Report

- 4. Select the <u>Work Execution Info.</u> tab to record the information related to Repair Order.
- 5. Select the <u>Bill of Material</u> tab to record the information related to the tools and its cost which are used in respective Repair Orders of Work Execution Info.

Recording Work Execution Info.

This tab enables the user to record the information related to Repair Order. There is no restriction for providing the other information in this tab.

- 6. Select the Work Execution Info. tab in the Work Completion and Teardown Report page. This tab appears by default. *See Figure 2.24.*
- 7. Use the Exec. Order Type to specify the type of the execution order which is "Repair Order".
- 8. Enter the Order #, Main Core Part #, Main Core Mfr. Serial #, Main Core Mfr. Lot # and Mod # of the repair order.
- 9. Enter the New Part #, New Serial # and New Mod #.
- 10. Specify the Removal Type, Removed Condition and Removal Reason of the removed part.
- 11. Use the Warranty Claim drop-down list box to specify whether the Warranty claim is applicable for the part or not.
- 12. Enter the TSN,TSA, TSO,TSR,TSI, CSN, CSA,CSO,CSR and CSI.
- 13. Specify the Certificate Type and enter Certificate #.
- 14. Click the Save pushbutton to record the repair order details.

Recording Bill of Material

This tab enables the user to record the information related to the tools and its cost which are used in respective Repair Orders of Work Execution Info.



15. Select the **Bill of Material** tab in the **Work Completion and Teardown Report** page. The **Bill of Material** tab appears. *See Figure 2.25.*

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Figure 2.25 Recording Bill of Material

- 16. Use the Exec. Order Type to specify the type of the execution order which is "Repair Order".
- 17. Enter Order #, Part #, Serial #, Mod #, Lot #, Quantity and UOM.
- 18. Enter the Replacement Reason for the repair part.
- 19. Specify the **currency** and user defined details.
- 20. Click the Save pushbutton to record the cost details of the repair order.

2.9 RECEIVING REPAIRED PARTS

2.9.1 CREATING REPAIR RECEIPT

You can create a repair receipt for the parts that are received after repair.

- 1. Select Manage Goods Receipt under the Goods Inward business component. The Manage Goods Receipt page appears. *See Figure 2.26.*
- 2. In the Select Ref. Doc. #/ Receipt # group box, enter the repair order # in the Ref. Document # field.
 - Note: A repair receipt can be created only for a Repair Order (RO) document that is in the "Authorized" status, and has the latest amendment number, if it has been amended.

In the Receipt Info group box;

- 3. From the Receipt # drop-down, select "New Receipt" and enter Receipt Date.
- 4. Enter Way Bill # and Way Bill Date.
- 5. Use the **Receipt Priority** drop-down list to assign priority to the receipt document.
- 6. Enter Packing Slip # and Packing Slip Date.
- 7. In the Received At group box, enter Receiving Location, Receiving Warehouse and Receiving Area.
- 8. In the Received From group box, enter Supplier # or Customer #.
- 9. In the Additional Details group box, enter Package and Consignment details.
- 10. Enter Gate Pass # and Gate Pass Date.
- 11. Select the Part Details tab for recording the details of the part.
- 12. Select the Serial/Lot Details tab for recording the serial/lot details of the part.
- 13. Select the <u>Supplementary</u> Info tab for recording the additional details of the part.
- 14. Select the Movement Details tab for recording details of the part movement after acceptance.
- 15. Select the **Update Inspection** check box to update inspection details of parts at the time of receipt for those received parts that do not require inspection or those are not Shelf-life Controlled.
- 16. Check the Move Parts check box to move to the warehouse those received parts that do not require inspection.
- 17. Click the **Confirm Receipt** pushbutton to confirm the receipt document or a specific received part.

For recording additional information on the received part;

- Select the **Record Hazmat Compliance** link at the bottom of the page to record the Compliance details for Hazmat parts in the document.
- Select the **Record Inspection Information** link at the bottom of the page to record the inspection information of the received part number.
- > Select the Upload Documents link at the bottom of the page to upload the documents for goods receipt.
- Select the Request New Part / Part Attribute Change link at the bottom of the page to request new part or to change the attribute of the existing part.
- Select the Maintain External Stock Allocation link at the bottom of the page to maintain external stock allocation details.



A > Stock Management > Goods Inward > Manage Goods Receipt				
🖈 🗉 Manage Goods Receipt			RAMCO OU-Ramco Rol	e 🕶 🗶 🖨 🛱 🗲 🖽 ? 🗔
Select Ref. Doc. # / Receipt #				
Ref. Document # AP000419320	Purchase Order	Go		
Receipt Details				
Receipt Info. Receipt # New Receipt	A new repair receipt b		Receipt Status	
Receipt Date 2021/02/07	created for a repair or	rder.	Way Bill Date	
Receipt Priority 🗨	Pack Slip #	#	Pack Slip Date	
Received At	Received From		Ref. Doc. Info.	
Receiving Location JFK Receiving Warehouse # 0123	Supplier a	# 00000 O View # 20000 View		APO00419320 O View Purchase Order
Receiving Area R1		RAMCO AVIATION & AEROSPAC	Ref. Doc. Sub Type	
Other Info				
Supplementary Info?	Work Requested	?	Parts Quarantined?	
+ Additional Details				
Part Details Serial/Lot Details Supplementary Info Movement Details	Reports			
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Record Hazmat Compliance	Record Inspection Information		Upload Documents	
Request New Part / Part Attribute Change	Maintain External Stock Allocation		Review Records Update	
View Records				
View GR List for Ref. Doc. #	View Associated Doc. Attachments		Inquire New Part / Part Attribute Change Re	quest Status

Figure 2.26 Creating repair receipt

Recording Part details

The **Part Details** tab in the Manage Goods Receipt page is typically used to record part details of received parts. You can record details including part *#*, incoming quantity of the received part, stock status, condition, warehouse to which these parts must be shifted post upon inspection. Accepted parts are moved to warehouse, rejected parts are sent back to the repair shop and the quarantined parts are stored for further inspection.

You can also record information on a received part that has undergone an inapplicable maintenance process.

1. Select the **Part Details** tab in the **Manage Goods Receipt** page. The **Part Details** tab appears. *See Figure 2.27.*

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ew Alte	rnate P	arts														

Figure 2.27 Record received part details

2. Enter Received Part # and Qty.



- 3. Specify **UOM** for the received part.
- 4. Enter Package Code and Package Condition of the received part.
- 5. Enter Stock Status for the received part.
- 6. Enter Warehouse #, Zone # and Bin # to which the received quantities of the part must be moved.
- 7. Enter Quarantine details for the part, if the received part has been quarantined.
- 8. Use the **Resolution Resp.?** drop-down list to select the entity that is responsible for the resolution or quarantine issues.
- 9. Enter **Resolution Comments**, if the received part has been quarantined.
- 10. Select Quarantine Area and Inspection Area for the received part.
- 11. Enter Rejected Qty to indicate the quantity of the received part that has been rejected on receipt of delivery.
- 12. Enter Reason for Rejection, if the received part has been rejected.
- 13. Check the New Part? check box, if the received part is not defined in the inventory.
- 14. Enter the Ref. Doc. Line # for the received part in the repair order for which you wish to create the repair receipt.
- 15. Click the Get Storage Info. pushbutton to retrieve the warehouse, zone, bin information for the parts to be received.
- 16. Click the Record/ Update Receipt pushbutton to record the receipt document.

Recording Serial/Lot details

In addition to the **Part Details** tab in the **Manage Goods Receipt** page, users are required to record the **Serial/Lot Details** tab, if the received part is **Serial-Controlled** or **Lot-controlled**. For the serial/lot # of the received part, you can record similar details as in the **Part Details** tab.

However, this tab is not applicable for None-Controlled parts.

1. Select the Serial/Lot Details tab in the Manage Goods Receipt page. The Part Details tab appears. See Figure 2.28.

Part De	tails	Serial/	Lot Del	ails	Supplementa	ry Info Movement Details Rep	orts							
			Disp	lay Opt	ion All line #	- Pending Serial / Lot #	Rec	eipt Line #	•		Default Mfr. Lot #			
*	•	1	2/2 🕨	₩	+ - 0	8 🌣 🗭 🍸 🏌		人 🗉 🗟	x 🛛 🖹 🛪 🗳	X # # II	All	▼ Sei	arch	Q
#		PCT	SLF	CRT	Line #	Received Part #	Received Mfr. Serial #	Q	Serial #		Received Mfr. Lot #		Qty	UOM
1	E	1						Ξ¥		<u>=</u> *		=*		
2		1						Ξ¥		Ξ¥		<u>.</u>		
3		1						ΞŦ		ΞŦ		=*		
						4								ŀ
View Fil Manage		Serial MO	D Details					Save						
Re-initia Maintain	alize / n Disci w Rec	Update P repancy I	arametei nformati	r Values on		1	nitialize Maint. Program / Upda Create Engineering Service Requ				late Comp. Configuration It Maintenance Program			

Figure 2.28 Specifying lot and serial number information for the received parts r

- 2. Enter **Received Serial #**, if the received part is a Serial-Controlled part.
- 3. Enter **Received Lot #**, if the received part is a Lot-Controlled part.
- 4. Enter **Qty** of the received part.
- 5. Use the **Received Condition** drop-down list to select the condition of the received goods.
- 6. Use the **Change Type** drop-down list box to select the variance in issued and received parts. However, if the issued and received parts are the same, do not select any option from the drop-down list box.
- 7. Use the **Change Basis** drop-own list box to select the cause for variance in the issued and received parts.



- 8. Enter the Operator # for the aircraft associated with the part.
- 9. Enter the Certificate details for the part.
- 10. Use the **Shelf Life Check?** drop-down list to enforce or override the shelf life check on the part based on the Expiry Date.
- 11. Enter **Quarantine** details for the part, if the received part has been quarantined.
- 12. Use the **Resolution Resp.?** drop-down list to select the entity that is responsible for the resolution or quarantine issues.
- 13. Enter Resolution Comments, if the received part has been quarantined.
- 14. Select Quarantine Area and Inspection Area for the received part.
- 15. Enter Rejected Qty to indicate the quantity of the received part that has been rejected on receipt of delivery.
- 16. Enter Reason for Rejection, if the received part has been rejected.
- 17. Select the **Deviated Part?** check box to indicate the part was deviated from the maintenance process it must have complied with.
- 18. Enter Deviation Comments for the variance in the maintenance on the deviated part.
- 19. Click the Save pushbutton to save the serial/ lot details.

Specify Tech Records/ Maint. Info for components

- Select the **Re-Initialize/ Update Parameter Values** link to reinitialize and update the parameter values.
- Select the Initialize Maint. Program & Update Compliance link to initialize the maintain program and update the compliance.
- Select the Initialize & Update Com. Configuration link to initialize and update the component configuration.
- > Select the Maintain Discrepancy Information link to edit the deferment details already specified for a work unit.
- Select the Create Engineering Service Request link to raise an ESR and confirm it.
- Select the Edit Component Maintenance Program link to update the maintenance program for a received component.

Recording Supplementary details

The **Supplementary Details** tab in the **Manage Goods Receipt** page enables you to specify values for various supplementary entities associated with the received part.

1. Select the **Supplementary Details** tab in the **Manage Goods Receipt** page. The **Supplementary Details** tab appears. *See Figure 2.29.*

Part D	etails	Serial/Lot Details	Supplementary Info	Movement Details Rep	ports					
			Display Opt	ion All	•			Part #	•	
	• For	und no rows to dis	play!!! 🕨 🕨 🛨 🗖 🕻] 🕺 🌣 🗯 🍸 🏋		노 🖬 🗟 [x 🗈 🗙 🗙	∓ ≠ III † % Al	 Search 	Q
#	E	Part #	Supp. Entity	Description	Mandatory?	Supp. Entity Value	Part Description			
1	E	9								
		4) b
						Save				

Figure 2.29 Recording supplementary information for the received part

- 2. Enter Supp. Entity Value for the received part in the multiline.
- 3. Click the **Save** pushbutton to save the details.

Recording Movement details

Typically, users record movement details of received parts that have passed inspection and have been accepted by the

buyer organization in the Moment Details tab of the Manage Goods Receipt page. Typically, this tab can be used in scenarios in which binning of received parts is not a separate /mandatory process.

1. Select the Movement Details tab in the Manage Goods Receipt page. The Movement Details tab appears. *See Figure 2.30.*

Part Deta	ils Se	erial/Lot	Details	Supplementar	ry Info Movement D	etails Report	'S								-
				1	Display Option All Line	# - Pending for I	Movement 💌			Rece	ipt Line #		-		
	Found	d no row	rs to disp	olay!!! 🕨 🕨	+ - 0 % 🗘 🖇	7 7			🖹 🖹 🗙 🕒	⊠ ∓ ≯	4 00 14 % A	NI .	▼ Sea	arch	Q
#		HAZ	MVD	Error Indicator	Message Center	Mvmt. Proc. Status	Received Part #	Movement Type	Pending Qty	,	Move Qty	UOM	Move to Area	Area I	ID
1								Allocation	1					~	~ /
					•										+
Get Sto	orage II	nfo.													
				Simulate Alloca	tion			Move Parts							

Figure 2.30 Recording movement details for the received part

- 2. Recording Select **Movement Type** for moving the received part for storage.
- 3. Enter **Move Qty** to indicate the numbers of the received part to be moved.
- 4. Select **Move to Area** to indicate the interim place to which the received part must be shifted. The drop-down list box displays "Rejection Area", "Shipping Area" and "Scrap Area".
- 5. Select Area ID.
- 6. Use the Stock Status drop-down list to select the stock status of the received part.
- 7. Use the **Condition** drop-down list to indicate the condition of the received goods.
- 8. Select Warehouse #, Zone # and Bin # in which the received part is stocked.
- 9. Specify the employee who moved the received parts in Moved by field.
- 10. Enter Moved Date.
- 11. Enter Transfer to Warehouse # to indicate the warehouse to which the received must be transferred.
 - 🦄 Note: This field is relevant and mandatory only if the Movement Type is "Transfer Allocation"
- 12. Click the Get Storage Info. pushbutton to retrieve the warehouse, zone, bin information for the parts to be received.
- 13. Click the **Simulate Allocation** pushbutton to identify those pending material requests that must be recipients of the received parts.
 - Note: When a Received part has undergone a Part Data Change, then Simulate Allocation is not allowed and Movement type is always stamped as Binning.
- 14. Click the Move Parts pushbutton to save movement details and move the part to the specified movement type.

Inspecting the goods received after repair

Inspection is required for all the part numbers that are received after repair. The goods received can be inspected at the warehouse by the user or by an external agency. After the inspection process, the quantity, which has been accepted, rejected or quarantined, can be updated. Inspection is of two different types:

Lot-controlled part inspection – Indicates lot controlled parts are inspected and the inspection report is entered accordingly. This type of inspection is done on the receipt of consumables, expendables etc.

Serial-controlled part inspection – Indicates that parts that are serial controlled are inspected and the inspection report is entered for the various serial numbers supplied. This type of inspection is done on receipt of components or tools. Partial inspection of these parts is not possible.

However, the Inspect Parts activity becomes mandatory, if the process parameter "Tech. Record update during Inspection" under the category Goods Inward – Repair Receipt" in the Set Inventory Process Parameters activity of Logistics Common Master is set as 1 (Yes).

- Note: You can inspect only those repair receipt documents, which are in "Receipts Frozen", "Inspected" or "Partially Inspected" status.
- 1. Select Inspect Parts under the Good Inward business component. The Inspect Parts page appears. See Figure 2.31.

A > Stock Management > Goods Inward > Inspect Parts	·	
★ ■ Inspect Parts		RAMCO OU-Ramco Role 🔻 💢 🖨 🛱 🗲 ? 🧮
Receipt Details Receipt Info.		
Receipt # GI-011354-2020 D	Receipt Type	Receipt Status
Receipt Date	Way Bill #	Way Bill Date
Receipt Priority	Pack Slip #	Pack Slip Date
Received At	- Received From	Ref. Doc. Info.
Receiving Location	Supplier #	Ref. Doc. #
Receiving Warehouse #	Customer #	Ref. Doc. Type
Receiving Area	Supplier / Customer Name	Ref. Doc. Sub Type
Inspection Info		
Supplementary Info?	Inspection Check List?	Parts Quarantined?
🛨 Additional Details		
Part Details Supplementary Info Inspection Check List Movement Details	Reports	
Display Option All Line # - Inspected	v	Receipt Line #
" 🔨 Found no rows to display!!! 🕨 🕨 🕇 🗖 🗇 🚿 🝸 🌋	<u>▶ 🗉 🗟 🖂 🗎 × 🗳 5</u>	≩ ∓ ≠ III 14 % All ▼ Search Q
# NXT HAZ SLF CRT ICL PV CRAD PTDR	PRG CFG Eng. Doc. INS PRT Received Part #	Mfr. Part # Received Mfr. Serial # O F
1		
Move Parts	Confirm Inspection Reverse Inspectio	
	Commin Inspection Reverse Inspection	1
Record Additional Receipt Info		
Record Hazmat Compliance	Upload Documents	Maintain External Stock Allocation
Manage Quarantined Parts		
View Documents		
View Ref. Document #	View Associated Doc. Attachments	

Figure 2.31 Recording inspection details of received parts

- 2. Enter the **Receipt #** to display details of the repair receipt in the screen.
- 3. Record the **<u>Part Details</u>** tab.
- 4. Record the **<u>Supplementary Info.</u>** tab.
- 5. Record the Inspection Check List tab.
- 6. Record the Movement Details tab.
- 7. Select the **Move Parts** checkbox to move received parts to the pre-defined warehouse upon inspection without recording the **Movement Details** tab.
- 8. Click the Confirm Inspection pushbutton to confirm the inspection of the received parts.

Recording Part details

The **Part Details** tab in the **Inspect Parts** page is typically used to record inspection details of received parts. You can record details of received parts including part # and serial #/lot #, incoming quantity, stock status, condition, warehouse to which these parts must be shifted upon inspection.

You can record rejection and quarantine details of received parts, if any quantity has been rejected or quarantined, in this tab. You can also record information on a received part that has undergone an inapplicable maintenance process.

9. Select the Part Details tab in the Inspect Parts page. The Inspect Parts page appears. See Figure 2.29.

For the received part,

- 10. Enter Received Mfr. Serial # or Received Mfr. Lot #.
- 11. Enter Accepted Qty and Condition.
- 12. Use the Change Type drop-down list box to indicate the variance in the issued and received part.
- 13. Use the Change Basis drop-own list box to select the reason for the variance in the issued and received part.
- 14. Enter **Operator #** for the airline company that owns the received part.
- 15. Use the Records Update? drop-down list to indicate the status of the technical records update.
- 16. Enter Quarantine details.
- 17. Select **Resolution Resp.?** to indicate the entity that is authorized to resolve the quarantined parts issue and enter Resolution Comments.
- 18. Use the Quarantine Area drop-down list box to select the warehouse that is used to store quarantined parts.
- 19. Enter Rejected Qty of the received part and, Reason for Rejection.
- 20. Enter Certificate details of the received part.
- 21. Enter Mfr. Date and Expiry Date.
- 22. Use the **Shelf Life Check?** drop-down list box to indicate whether shelf life check on the received part is mandatory or can be ignored. However, this field is relevant only if the received part is Shelf Life-Controlled.
- 23. Check the **Deviated Part?** check box to indicate that the received part has complied with an invalid maintenance process and Deviation Comments.
- 24. Enter Inspection details.
- 25. Click the Record / Update Inspection pushbutton to save part details.

Specify Tech Records/ Maint. Info for received parts/components that you selected in the multiline:

- Select the Re-Initialize/ Update Parameter Values link to reinitialize and update the parameter values.
- Select the Initialize Maint. Program & Update Compliance link to initialize the maintain program and update the compliance.
- Select the Initialize & Update Com. Configuration link to initialize and update the component configuration.
- Select the Maintain Discrepancy Information link to modify the deferment details.
- Select the Create Engineering Service Request link to raise an ESR and confirm it.
- Select the **Edit Component Maintenance Program** link to update the maintenance program.
- Select the Review Records Update link to record update status of technical records.

Recording Supplementary details

The **Supplementary Details** tab in the Inspect Parts page enables you to specify values for various supplementary entities associated with the received part.

1. Select the **Supplementary Details** tab in the Inspect Parts page. The Supplementary Details tab appears. *See Figure 2.32*.



Par	t Detail	ls Su	pplementary 1	Info Inspection Check L	ist Movement Details	Reports						
				Display Opti	on All	•			Part #	•		
10	•	Found	no rows to displa	ay!!! > > + - 🗆	8 🕸 й 🍸 🏋		人 血 당	x 🛛 🖹 🗙	.∓ → III † >	All	 Search 	Q
	#		Part #	Supp. Entity	Description	Mandatory?	Supp. Entity Value	Part Description				
1												
			4									ł
							Save					

Figure 2.32 Records supplementary details of received parts

- 2. Enter Supp. Entity Value for the supplementary entity
- 3. Click the **Save** pushbutton to save details.

Recording Inspection check list

You can record the Inspection Check List tab, if Inspection Check List is applicable for the repair receipt. You can specify quantitative or qualitative values of parts at the time of receipt based on attribute type of parts.

1. Select the Inspection Check List tab in the Inspect Parts page. The Inspection Check List tab appears. See Figure 2.33.

Part D	etails	s Su	pplementary Info Inspection C	heck List Movement De	tails Reports						
			Display Optio	n All	-		Pa	rt #	-	•	
	•		1 - 4/4 🕨 🕨 🛨 🗖 🕄	8 🕸 🖉 🍸 🗶) × C 🗙 🖡 I	4 00 14 % All		▼ Search	Q
#			Received Part #	Serial/ Lot#	Check List / Att.Code	Description	Mandatory?	Verified?	Comments	Part Description	
1					ST test	test	YES	V			
2					Test	Test123	YES	V			
3			00000584		Test1234	Test	NO	V		00000584	
4			00000584	LOTCHK	Round3	Qa-test	YES	V		00000584	
5											
						4					•
				Verified All	Save						

Figure 2.33 Recording Inspection check list for the received part

For the received part,

- 2. Select the Verified checkbox to indicate whether the checklist or attribute information is verified by the inspector.
- 3. Enter Avg Min. Value, Avg Max. Value and Avg Value for parts with the attribute type as 'Quantitative'.
- 4. Enter Qualitative Value for parts with the attribute type as 'Qualitative'.
- 5. Check the Verified All check box to select the Verified? checkbox in the multiline for all the received parts in the multiline.
- 6. Click the Save pushbutton to save the inspection check list information.

Recording Movement details

You can use the **Movement Details** tab in the **Inspect Parts** page to record storage details for those quantities of received parts that are accepted upon inspection. Alternatively, you can select the Move Parts checkbox to move received goods automatically on successful inspection.

1. Select the Movement Details tab in the Inspect Parts page. The Movement Details tab appears. See Figure 2.34.



	HAZ											
		MVD	Error Indicator				~ <u>~</u> • u	🛛 🖹 🗶 🗳 🗶 🖡 -	= 010 14 % All	-	Search	Q
				Message Center	Mvmt. Proc. Status	Received Part #	Mfr. Part #	Movement Type	Pending Qty	Move Qty	иом	Move to Area
		YES				00000584		Binning 🗸	0.00	3.00	EA	
								Allocation 🗸				
				4								•
age In	fo.											
3	ige In	ige Info.	-	ge Info. Simulate Allocation	-		-	ge Info.	ge Info.	ge Info.	ge Info.	ge Info.

Figure 2.34 Recording movement details of the received part during inspection

- 2. For the received and inspected part, select **Movement Type** as Binning, Allocation, Transfer Allocation, Rejection, Rejection Return to Supplier, Rejection Scrap, Work Center, Ship to Customer and Ship to Supplier Exchange.
 - Note: To simulate allocation for repair receipts, you must select Binning, Allocation or Transfer-Allocation as the movement type.
- 3. Use the **Move to Area** drop-down list to select the interim storage area to which the part must be moved, if the movement type is related to rejection.
- 4. Select Area ID for the interim storage area in the receiving warehouse for the storage of rejected parts.
- 5. Select Stock Status, Condition, Warehouse #, Zone # and Bin #.
- 6. Specify Moved by to name the employee who moved the received part and Moved Date.
- 7. Specify **Transfer to Warehouse #** identifying the warehouse to which the part is transferred. This field is applicable only if Movement Type is "Transfer Allocation".
- 8. Click the Get Storage Info. pushbutton to retrieve the warehouse, zone, bin information for the parts to be received.
- 9. Click the **Simulate Allocation** pushbutton to allocate pending material requests, which is permitted only for certain movement types.
- 10. Click the Move Parts pushbutton to save movement details.

2.10 BINNING THE PARTS RECEIVED AFTER REPAIR

After inspection, the parts can be moved from the place of receipt to the warehouse designated in the Customer Order/ Purchase Order/Release Slip/ Repair Order / Direct Customer Goods Receipt. The received parts are usually moved to the precise zone and bin in the warehouse after the acceptance has been frozen upon inspection.

An authorized person typically undertakes this activity to record the movement/binning of the part. Inventory postings are done after the movement.

This recording of this activity is mandatory, if the "Binning is a separate process" process parameter under the category Goods Inward is 1 (Yes) in the Define Inventory Process Parameters activity.

- 1. Select Bin Parts under the Goods Inward business component. The Bin Parts page appears. See Figure 2.35.
- 2. Enter **Search Criteria** and then click **Get Parts** to retrieve the repair receipt of received parts you wish to move to the designated storage place.

☆ > s	itock M	lanage	ment > Goods	Inward	> Bin Parts			· · ·									
★ 🗉	Bin	Parts	;									RAMCO	DU-Ran	mco Role 👻 🔾	¢ ₽	₽ 4	?
											Date	Format yyyy/mm/dd					
Sear	ch Crite	ria —															
					Receiving Lo			 Receiving Warehouse # 			•						
					Sea	rch On		v			-						
								Get Parts									
Rinni	ng Deta	ile															
						=											•
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#		PCT	HAZ Receipt	#	Error Indicator	Message Center	Mvmt. Proc. Status	Received Part #	Mfr. Part #	ς	UOM	Stock Status		To Stock Statu	5		Co
1			GI-00821	8-2013				0-0102-3-3380:36361	0-0102-3-3380		EA	CUSTOMER OWNED	~				
2		-11-	GI-00821	8-2013				0292107960:F0228	0292107960		EA	CUSTOMER OWNED	~				Sei
3			GI-00824	7-2013				0-1:09058556	0-1:09058556		EA	Accepted	~				Ne
4			GI-00835	1-2013				0-0440-4-0015:36361	0-0440-4-0015		EA	Aveos Owned	~				Ne
5			GI-00837	2-2013				0CI3026:S3667	0CI3026	1.0	EA	CUSTOMER OWNED	~				Un
6			GI-00837	3-2013				0CI3026:S3667	0CI3026	1.0	EA	CUSTOMER OWNED	~				Un
7			GI-00837	5-2013				0CI3026:S3667	0CI3026	1.0	EA	CUSTOMER OWNED	~				Un
8			GI-00840	4-2013				0-0440-4-0001:36361	123	1.0	EA	Aveos Owned	~				Ne
9			GI-00840	4-2013				0-0440-4-0001:36361	123	1.0	EA	Aveos Owned	~				Ne
10			GI-00844	1-2013				0-0440-4-0001:36361	123	1.0	EA	Accepted	~				Ne
						4											•
Get S	itorage I	Info.															
			S	ave				Confirm									
	e <mark>rate Re</mark> Part Bar		abel			Generat	e MMD Report										
Reco	ord Addi	itional I	Receipt Info —														
-	azmat C					Maintair	1 External Stock	Allocation									

Figure 2.35 Recording the binning of parts

- 3. In the Binning Details multiline, select Stock Status and Condition of the received part.
- 4. Select Warehouse #, Zone # and Bin # to which the received part must be shifted for storage.
- 5. Alternatively, you can click the **Get Storage Info.** pushbutton to retrieve warehouse, zone and bin predefined for the part.
 - Note: The selected line item must not be in "Moved" status.
- 6. Click the Save pushbutton to record details.
- 7. Click the Save & Confirm pushbutton to record and confirm details at one go.

For recording additional information,

- Select the **Record Hazmat Compliance** link at the bottom of the page to record the Compliance details for Hazmat parts in the document.
- Select the Maintain External Stock Allocation link at the bottom of the page to maintain external stock allocation details.

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