Umler<sup>®</sup> Component Tracking User Guide



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# Welcome to Umler Component Tracking

Component Tracking, formerly known as CEPM (Comprehensive Equipment Performance Monitoring) is a web-based application that captures data for railcar equipment components. This data includes reporting on wheel repairs, validating railcar component existence, incorporating mileage information, and providing visibility into the current and past health status of rail equipment.

The first phase in the program focused on wheelsets: centralizing the registration of wheelset component details and identifying the application of wheelset components, including AAR and non-AAR repairs. The second phase added two additional components—bolsters and sideframes. Inventoried wheelsets without barcodes can be field registered. The third phase added couplers and later phases added brake valves, slack adjusters, pressure relief valves and cushioning units.

Users can:

- Register components in advance using Railinc's Umler<sup>®</sup> Component Tracking
- Report the application of components via Railinc's Umler, Car Repair Billing (CRB), and Equipment Health Maintenance System (EHMS) applications

# **Prerequisites**

The Component Tracking operates as a part of Umler system. Each user must have an SSO ID and be authorized to use Umler. For more information on obtaining an SSO ID and requesting application access, see the <u>Umler User Guide</u>.

Each user must be familiar with:

- Logging In/Out
- Railinc common interface component navigation

# **System Requirements**

The basic computer requirements for Component Tracking are the same as Umler. For more information on system requirements, see the <u>Umler User Guide</u>.

# **User Guide Structure**

This document has been organized to reflect the application menu order of the Component Tracking. It describes use and interpretation of interface elements in the Component Tracking.

The format of the Railinc user guide is in an "offset" style. Dictionary-like retrieval text is used in the header.

Railinc Single Sign-On (SSO) information is included, and references to the Railinc Single Sign-On User Guide added. SSO information for Umler administrators is also in the <u>Railinc Single</u> <u>Sign-On User Guide</u>.

Whenever possible the term "select" is used to indicate making a choice using either the mouse or keyboard. Left-clicking generally activates a control or selects an item. Where a double-click is

required, it is specified. Typical keyboard selection equivalents are described in <u>Railine Interface</u> <u>Elements</u>.

Underlined blue links are functional links to go to another location in the user guide.

# **User Interface**

The Component Tracking user interface provides the same navigational tools found in most Windows applications and internet sites.

# **Railinc Component Tracking Page Layout**

Each page in a Railinc web application has a similar structure.

Exhibit 1	Railinc	Web	Application	Page Layout
-----------	---------	-----	-------------	-------------

V	RAIL	1	Umler	2									3	USERID	: RAIL	Launch Pa	d <del>v</del> S	Sign Out
Но	ne Que	ery <del>-</del>	Maintenanc	e <del>v</del> Uj	oload / Dov	vnload <del>-</del>	7 Pail	inc Admin	Functions <del>-</del>	Acco	ount Administration <del>-</del>	Contact List	Component Reg	gistry <del>–</del>	4	ences 5		6
	Sear	rch	Ac	ld New	ι	Jpload C	sv	Field R	Registration									
			_															
	Search Co	omponen	t Registry	8														
Г	Enter a sing	ale compo	nent ID (e.g.,	RAIL100) o	or a range (e	.g., RAIL1	-100)											
	AAR Compone	ent ID:									-							- 1
	RAIL3501-	-3999						<b>Q</b> Search	h		9							- 1
							11.				-							- 1
																		- 1
						т.		la faundu F										- 1
						10	tal record	is lound: 5	Clear I									
	Comp	onent Tag	ID	Mfg. Date		c	omponen	t Type	Status		Component Reco	ord						- 1
	RAILO	000003600				A	XLE					Component Tag ID	RAIL000003609					^
	RAILO	000003609		2012/06/09	1	W	HEELSET					Component Type	WHEELSET					
	RAILOO	000003649				A	XLE			≙	Sub Component ID	)s						
	RAILO	000003689				A	XLE				Axle Sub	Component Tag ID						
	RAILO	000003839				A	XLE				Rearing 1 Sub	Component Tag ID						
	<									>	Wheel 2 Sub	Component Tag ID						
											Bearing 2 Sub	Component Tag ID						
											Base Elements							
											Component	AAR Facility Code	PRXC - PROGRESS	RAIL, Moja	ave,CA			
											Compon	ent Assembly Date	06/09/2012 10:10					
											Component	t Vendor Shipment						
												Information						~
																🕑 Edit	🏛 De	elete
															-			_
					Leas	al Notices	Priva	acy Rights	Contact Us	Term	ns of Lise			Co	nvright 20	123 Railinc@ 4	All rights re	served

- 1 Logo—Railinc logo. Logo is a link to the Railinc corporate website.
- **2** Application Title—Name of the application. This is also a link to the Home page of the application.
- **3** User ID—Logged in user.

4 **Company**—Company user is representing. For individuals representing several roads. Selecting this link while logged on (called out below) opens the User Mark Selection pop-up (<u>Exhibit 7</u>), to reselect the company on whose behalf the user will be working—without logging out.



5 Launch Pad— Click link to go directly to the SSO Launch pad to switch to other authorized Railinc applications (left side) or use other functions (right side) to change passwords, request other applications, or open a support case. (Exhibit 2).

Exhibit 2. Launch Pad

BAILINC Launch Pad	10 million (10 mil	RAILINC CORPORATION   Sign Out	
Home			
My Applications	Railinc Notifications		My Profile
AAR Embargo/OPSL Permit System	PTC MAIN-CDX Release	May 29, 2020 🗸	Edit My Profile
CIF	LOA Update: Removal of Address	May 12, 2020 🗸	Change Password
Car Hire Rate Negotiation	Introduction to Umler ® Webinar - Reminder	May 7, 2020 🗸	View/Request Permissions
Car Repair Billing	Introduction to Umler ® Webinar	Apr 28, 2020 🗸	Check Status of Permission Requests
Clear Path System	Umler® Release Notification	Apr 21, 2020 🗸	Support Cases
DDCTS	RCH Web Release	Apr 9, 2020 🗸	User Guide
EHMS	New Support Portal on Launch Pad	Mar 24, 2020 🗸	

- 6 Sign Out—Logs out of current application and returns to the Railinc SSO login page.
- 7 Application Menu—The top of the Railinc page displays the application menu options. The options on this menu allow you to perform the various functions of the application. Some specific options include:
  - **References**—Opens a page with links to various reference documents (e.g., user guide, specification manual, etc.).
- **8 Page Title**—The title of the specific application task page.
- **9 Page content area**—The area of the page where tasks are executed (shown outlined in red). These vary and may include a number of different elements, which are described in the next sections.
- **10** Legal and Contact Links—This area at the bottom left of each page contains links for Legal Notices, Privacy Rights, Terms of Use, and Contact Us.

# **Railinc Interface Elements**

General interface elements are described in the <u>Umler User Guide</u>, which contains basic explanations of the elements and components that assist in moving through the various pages of the application to complete tasks. Mouse and keyboard equivalents are discussed for each element. Interface elements unique to the Component Tracking are described in the next section.

# **Component Tracking -Specific Interface Elements**

This section describes the Component Tracking -specific interface elements.

### **Umler/Component Registry Application Menu**

Exhibit 3 shows the Umler/Component Registry application menu split on two lines.

Exhibit 3.	Umler/ Compo	nent Registry	Application	Menu	Bar
EXHIBIT 5.	onnen compo	пенскедізау	Аррисацон	menu	Dai

lome	Query 🗸	Maintenance 🗸	Upload / Do	ownload 🗕	Railinc Admi	n Functions 🗸	
	Account Ac	dministration –	Contact List	Compone	nt Registry 🗸	References	

The Component Registry application menu provides the functions described in Exhibit 9:

### **Component Registry Menu**

Exhibit 4. Component Registry Menu

Component Registry	K
Registration	
Associate Component	
Query	•

### **Component Tracking Icons and Indicators**

Component Tracking uses application-specific icons and indicators to assist the user:

### Exhibit 5. Component Tracking-Specific Icons

lcon	Description
	Component Tracking-Specific Icons
Δ	Indicates a component associated with more than one equipment ID
	Recall indicator icon (solid red with white exclamation point)

### **Component Tracking Command Buttons**

Component Tracking uses some application-specific command buttons.

Exhibit 6. Component Tracking-Specific Command Buttons

Name	Function			
Associate	Associate an entered component with an Equipment ID			
Nullify	Remove an association of a component from an equipment ID.			

### **Mandatory Fields**

Mandatory fields are shown with **red** asterisks.

# **Getting Started**

The Umler application is accessed using the Railinc Single Sign On (SSO), which can be accessed from the Railinc portal at <u>https://public.railinc.com</u>. Click the **Customer Login** link in the upper right of the page.

# Logging In

To log into the Umler application:

- 1. Open your internet browser and enter <u>https://public.railinc.com</u> to open the Railinc website.
- 2. Select the **Customer Login** link in the upper right of the page. The Account Access page is displayed.
- 3. Enter your User ID and Password. Select Sign In. The Railinc Launch Pad is displayed.
- 4. Select Umler in the My Applications section.
  - a. <u>If the user represents only one company</u>, the Umler Home page is displayed (<u>Exhibit 8</u>).
  - b. <u>If the user represents two or more companies</u>, the User Mark Selection pop-up is displayed (<u>Exhibit 7</u>). Enter or select the company you want to represent and click the **Select** button. The Umler Home page is displayed (<u>Exhibit 8</u>). To switch to a different company, select the current company mark displayed next to your userid in the upper right (see <u>Company</u> example) and select from the User Mark Selection.

#### Exhibit 7. User Mark Selection

User Mark Selection	
Select a Mark * RAIL	
	Select

#### Exhibit 8. Umler Home

# Welcome to the Umler® System The Railinc Umler® system is the mission-critical source for reliable rail equipment data. The Umler equipment registry contains the physical characteristics, inspection history, transportation management and pool assignments of nearly two million pieces of rail equipment in North America. This registry is the base file for other industry reference files and industry equipment accounting files.

The Umler system provides rail carriers, equipment owners and shippers with real-time access to detailed equipment data, providing for the safe movement of traffic and smooth interchange of shipments between carriers. Umler allows the rail industry to provide customers with the right pieces of equipment for their shipment.

The Umler system enables better communication and collaboration among rail partners for enhanced asset management and improved rail safety.

Use Spanish for error messages and form labels

Release Docs	Umler Contacts for RAIL	Equipment
Umler User Guide Umler Data Specification Manual Umler Change Request Form Component Registry User Guide Component Registry Data Specification Manual	External users are not currently provided Umler contacts for ARAIL when searching Findus.Rail. Providing contacts in Findus.Rail makes it easy for the rail industry to contact your company.	Single Equipment Search Q Search
	Umler Company Administrator(s) for RAIL Equipment, Pool, and Inspection Rights:	Download Equipment in Conflict Equipment with component ID conflicts: 71 Equipment Validation Requests: 0
	To search for contacts at other companies click here	

Continue by selecting **Component Registry** from the application menu item (refer to <u>Exhibit 9</u>) and select from the following functions:

#### Exhibit 9. Component Registry Application Menu Functions

Registration	Allows the authorized user to search for, edit, delete, add, and upload components (Exhibit 11).
<u>Associate</u> Component	Allows the authorized user to associate a component with an equipment ID (Exhibit 84).
<u>Query</u>	Opens the Query submenu (Exhibit 120).

# **Logging Out**

Select the Launch Pad link to end an Umler session. The user returns to the SSO Launch Pad.

If multiple SSO applications are open (in separate browser windows), and the users wants to close only one, close the unwanted window using **X**, or **Alt+F4**. Do NOT select the **Sign Out** link—it ends <u>all</u> Single Sign-On sessions.

# Registration

When the user selects **Component Registry > Registration** in Umler (Exhibit 10), the Search tab is displayed (Exhibit 12).

#### Exhibit 10. Component Registry Menu With Registration

Component Registry			
Registration	-		
Associate Component			
Query	•		

Exhibit 11 describes the tasks available on the tabs.

Exhibit 11. Registration Tabs and Descriptions

Tab Item	Description
<u>Search</u>	Allows the user to search for component IDs (default)
Add New	Allows the authorized user to add a new component to the Registry
Upload CSV	Allows the authorized user to upload CSV records to the Registry
Field Registration	Allows shops to register pre-Component Tracking components without barcodes (Exhibit 70)

### Search

Use the following procedure to search for an existing registry component:

- 1. Log onto Umler as described in Logging In. The Umler Home page is displayed (Exhibit 8).
- 2. Select **Component Registry > Registration**. The Search Component Registry tab page is displayed (<u>Exhibit 12</u>).

Exhibit 12. Search Component Registry

Search	Add New	Upload CSV	Field Registration
Search Component	Registry		
Enter a single compone	ent ID (e.g., RAIL100) or a	range (e.g., RAIL1-100)	
AAR Component ID		🗹 S	earch
		11.	

3. Enter a component ID. Ranges are supported up to 500 IDs. Format is XXXX (four alpha characters) plus up to ten digits. In this example (<u>Exhibit 13</u>) components from RAIL from 1625-2000 was entered.

Exhibit 13. Component Registry Search Results

Search	Add New	Upload CSV	Field Registration
earch Component I	Registry		
nter a single compone	nt ID (e.g., RAIL100) or a r	ange (e.g., RAIL1-100)	
AR Component ID: RAIL1625-2000			Q Search
		11.	
		Total records	found: 6 Clear Filters
Component Ta	g ID Mfg. Date	Component Type	Status
RAIL00000163	3	EMERVALVE	
RAIL00000164	3	BEARING	
RAIL00000165	3	BEARING	
RAIL000000172	9	COUPLER	
RAIL00000190	5 2017/11/13	WHEELSET	

Select components *individually* using the check box beside the component. Use the checkbox at the left of the gray header to select/unselect *all* components in the list.

- 4. Choose from the following tasks:
  - View Component Details
  - Edit Component
  - Delete Component

# **Viewing Component Details**

Selecting a component row displays a box with the beginning of the component registration details (<u>Exhibit 14</u>). To view details of a different component, select its row. To view complete details, the user must Edit the record. See <u>Editing Components</u> for details.

Exhibit 14. Component Registry Search Results with Component Details

S	Search	Add New	Upload CSV	Field Registration		
Search	h Component Reg	istry				
Enter a	single component II	D (e.g. RAII 100) or a r	ange (e.g. RAII 1-100)			
AAR Com	nonent ID:	5 (c.g., 10 (c100) 61 u f				
RAIL1	625-2000			<b>C</b> Search		
			11.			
			Total consult fo			
			Total records to	Clear Filters		
Ξ	Component Tag ID	Mfg. Date	Component Type	Status	Component Record	
	RAIL0000001633		EMERVALVE		Component Tag ID RAIL0000001905	^
	RAIL0000001643		BEARING		Component Type WHEELSET	
	RAIL0000001653		BEARING		Sub Component IDs	
	RAIL0000001729		COUPLER		Axle Sub Component Tag ID	
	RAIL0000001905	2017/11/13	WHEELSET		Wheel 1 Sub Component Tag ID	
	RAIL0000001943		BEARING		Wheel 2 Sub Component Tag ID	
					Bearing 2 Sub Component Tag ID	
					Base Elements	
					Component AAR Facility Code ABG - AMTRAK, Beech Grove, IN	
					Component Assembly Date 11/14/2017 02:10	
					Component Vendor Shipment	
					Information	~
						🛿 Edit 🕅 🛍 Delete

# **Editing Components**

Components can be edited one at a time. Use the following procedure to edit a component:

1. After a successful search for a component, check the box for the component you want to edit and select Edit. Edit Component is displayed (Exhibit 15).

**Note:** Only a portion of each section is shown in these exhibits. For complete information about the entire Edit Component interface, see <u>Add New Component</u>. Online Element Help provides a complete description of each element.

Mandatory elements are shown with an asterisk (\*).

### Exhibit 15. Edit Component

Search	Add New Upload C	SV Field Registration		
Edit Component				
AAR Component ID:				
Company Code RAIL				
Component ID Number 0000001905				
Component Type WHEELSET		•		
				E Save K Cancel
Sub Component ID				
	Sub Compo	onent Company Code	Sub Component ID Number	
	Axie:			
	Roller Bearing 1:			
	Wheel 2:			
	Roller Bearing 2:			
1. Base Elements				
	* Component AAR Facility Code (C00	3):ABG - AMTRAK, Beech Grove,I	۷ <del>-</del>	
	* Component Assembly Date (C00	4):11/14/2017	(mm/dd	
	* Component Assembly Time (C00	4):02:10	(hh:mm)	
	Component Defect Flag (C00	7):		
	Component Registration Date (C01	0): 04/30/2019 19:05		
	Purchased Core Turned (C01	1): Y - Yes	<b>*</b>	
	Wheelset New or Turned (C01	2):		
			:	
	* Certificate Number (C210)	28 - Brenco	·	
	* New or Reconditioned (C211)	:N - New	÷	
	AAR Extended Bearing Code (C212)	85KF0004 - SKF F2	<b>•</b>	
	* Seal Type (C213)	SOEX0007 - Shell GadusRail S3	AAR AP 1.5 👻	
	Grease Type (C214)	8AMS0003 - Brenco Steel	<b>~</b>	
	* Cage Type (C215)			
	* Cage Type (C215) * Backing Ring Type (C216)	8SKF0001 - SKF Natural Fitted	<b>*</b>	
	* Cage Type (C215) * Backing Ring Type (C216) Bearing Locking Plate Type (C217)	8SKF0001 - SKF Natural Fitted	▼ Nate ▼	
	* Cage Type (C215) * Backing Ring Type (C216) Bearing Locking Plate Type (C217) Bearing Seal Wear Ring Type (C218)	8SKF0001 - SKF Natural Fitted AARX0001 - Standard Locking I	v Nate v	

**Note:** The Component ID fields cannot be changed.

2. When changes have been made to the component, select **Save** (either at top or bottom of interface). A confirmation message is displayed at the top of the interface. Select **Cancel** to exit.

# **Deleting Components**

When a component has been entered in error, it can be deleted. <u>Associated components cannot be</u> <u>deleted</u>. Use the following procedure to delete a component (or a group of components):

1. After a successful search for components, check the box to the left of each component to be deleted, and select **Delete**. The Confirmation pop-up is displayed (<u>Exhibit 16</u>).

Exhibit 16. Delete Component Confirmation

Search	Add New	Upload CSV	Field Registration
Search Component	Registry		
Enter a single compone	ent ID (e.g., RAIL100) or a r	ange (e.g., RAIL1-100)	
AAR Component ID:		Q S	earch
KAIL2000-2455		11.	
		Confirmatio	n x
		Are you sure you v	vant to delete the selected component ?
Component Tag	ID Mfg. Date		
RAIL000002222	2016/10/31		Cancel
RAIL000002224	2012/06/06	-	0002321
RAIL000002226	2012/06/06	WHEELSET	Component Type : Bolster
RAIL000002230	2012/06/06	WHEELSET	Component Registration Date : 08/10/2023 10:27
RAIL000002233	2012/06/06	WHEELSET	
RAIL000002234	2012/06/06	WHEELSET	Bolster Condition Code : 1 - New
RAIL000002321		BOLSTER	Bolster AAR Foundry Facility Code : ACCO - ALLIANCE CASTING
RAIL000002468		COUPLER	COMPANY, Alliance OH
			Bolster Cast Month: 2
			Rolster Cast Year - 2
			🕼 Edit 🛍 Delete

2. If unsure about the deletion, select **Cancel**. Otherwise, select **OK**. A success message is displayed below the page title (<u>Exhibit 17</u>).

Exhibit 17. Delete Component Success Message

Search	Add New	Upload CSV	Field Registration	
Search Component I	Registry			
1 record(s) de	leted.			
Enter a single compone	nt ID (e.g., RAIL100) or a	range (e.g., RAIL1-100)		
AAR Component ID: RAIL2000-2499			Search	
		11.		
		Total records fo	und: 7 🛛 🛛 Clear Filters	

# Add New Component

Components must be registered in the Component Registry to be associated with a piece of equipment. Use the following procedure to add a new component registration:

- 1. Log onto Umler as described in Logging In. The Umler Home page is displayed (Exhibit 8).
- Select Component Registry > Registration. The Search Component Registry tab page is displayed (<u>Exhibit 12</u>).
- 3. Select the Add New tab. The Add New Component to Registry page is displayed (Exhibit 18).

Exhibit 18. Add New Component to Registry

Search	Add New	Upload CSV	Field Registration
Add New Compone	nt to Registry		
AAR Component I	D:		
Company Code 8RIC			• •
Component ID Nun	nber		
Component Type	^		•
BOLSTER			
COUPLER			T Add
CUSHIONING UNIT			
BRAKE VALVE CONTR	OL EMERGEN		
PRESSURE RELIEF VAI	LVE		

- 4. The **Company Code** defaults to the user's company or select from the drop-down list if you are responsible for more than one.
- 5. Enter the **ID** number to be assigned to the component, up to 10-digits.
- 6. Select the **Component Type** from the drop-down.
- 7. Select + Add. The number is validated and the Base Elements section of the information is displayed. Sections vary by Component Type.
  - Select the element link next to the field name (e.g., C003) to view helpful information in a pop-up window that explains the element. Elements with a red dot (•) are mandatory. Data types include text, numeric, or timestamp/date. Close the window when finished.
  - Mandatory fields have an asterisk (\*).
  - Use calendar icons to select dates.

- Use drop-down lists if provided.
- Required formats are shown at the right of the field.
- 8. Complete the form with the appropriate information for the Component Type. Before continuing to the next step (Step <u>9</u>), see the applicable component type section for details:
  - Add Bolsters
  - <u>Add Couplers</u>
  - Add Brake Valve Control Emergency
  - <u>Add Brake Valve Control Service</u>
  - Add Side Frames
  - <u>Add Slack Adjusters</u>
  - Add Wheelsets
  - Add Pressure Relief Valve
  - Add Cushioning Unit
- 9. When all mandatory fields have been entered, select Save.
  - a. If any entry errors have been made, a red error message is displayed next to the field in error (Exhibit 19).

Exhibit 19. Failed Add Component Transaction With Error Message

2. Axle			
AAR Facility Code (C303):	TMMX - TRINITY NORTH AMERICA FREIGHT CA	R, Mon 🔻	
* Manufacture Date (C304):	03/03/2013	(mm/dd /vvvv)	
* Manufacture Time (C304):	02:10	(hh:mm)	
* Nominal Diameter (C305):	6.0 - 6 inch Diameter	*	
* Nominal Length (C306):	11.0 - 11 inch Length	*	
* AAR Condition Code (C307):		•	Invalid for Mandatory Elements
Serial Number And Heat ID (C308):	A1B2C3D001760		
* AAR Type (C309):	RWS - Raised Wheel Seat	<b>.</b>	
* Grade (C310):	F - Grade F, Double Normalized and Tempered	*	

b. Once the input is valid, a green success message is displayed at the top of the page and the component is updated (<u>Exhibit 20</u>).

Exhibit 20. Add New Component to Registry Success Message

Search	Add New	Upload CSV	Field Registration	
Add New Compone	ent to Registry			
Component	added to the Component	Registry		×
AAR Component I	ID:			
Company Code				
RAIL			<b>▼</b>	
Component ID Number				
0005897130				
omponent Type				
BOLSTER			Ŧ	
			+ Ad	d New 🕼 Edit

 To add another component, select +Add New. To edit the current component again, select Edit. To edit a component type for a different component ID, see <u>Search</u> and <u>Editing</u> <u>Components</u>.

# Add Bolsters

### Exhibit 21. Add New Bolster

Search Add New Upload CSV Field Re	gistration	
Add New Component to Registry		
AAR Component ID:		
Company Code RAIL	·	
Component ID Number 0000008511		
Component Type		
BOLSTER	~	
		Save X Cancel
Base Elements		
Component Registration Date (C010):		
* Bolster Condition Code (C414):	•	
* Bolster AAR Foundry Facility Code (C401):	Q	
* Bolster Cast Month (C402):		
* Bolster Cast Year (C417):		
- AAR Design reature Looe (C403): Bolster AAP ID Code (C404):		
* MFG Pattern Number (C405):		
MFG Drawing Number (C406):		
MFG Drawing Number Revision (C407):		
MFG Serial Number (C408):		
MFG Heat Number (C409):		
MFG Heat Treat Load Number (C410):		
Bolster Reconditioner AAR Facility Code (C411):	•	
Bolster Classification Date (C413):	(mm/dd /yyyy)	
* Wear Plate Installed by Foundry / Reconditioner (C415):	•	
Converted Bolster (C416):	•	
Increased Component Life (ICL) (C418):	•	
Component Defect Flag (C007):		
		🖺 Save 🗶 Cancel

- 1. Enter all required fields marked with a red asterisk (\*).
  - a. Select the trademark lookup icon (Q) to open the Trademark Select pop-up.

b. Select a **Bolster AAR Foundry Facility Code** from the Trademarks listed. Scroll down to view all the available facilities. <u>Exhibit 22</u> shows the **ASFG** company radio button selected.

Exhibit 22. Trademark Select

Tradema	rk Select		×
Select	Trademark	Description	
0	Â	ACCO - ALLIANCE CASTING COMPANY, Alliance OH	
0		AMCB - Amsted Maxion Folundry & Railway Equipment (no longer in production)	
0	AM	AMFB - Amsted Maxion Fundicao E Equipmentos Ferroviarios S/A, Cruzeiro, Brazil	
0	OS	AMOB - Amsted Maxion Funicao E Equipamentos Ferroviarios, SA (no longer in production)	
0	A	ASFA - ASF Keystone - Alliance (no longer in production)	
	G	ASFG - AMSTED RAIL COMPANY, Granite City, IL	
		Select	lose

- c. Select Select to close the pop-up and return to the Add page with the selected trademark.
- 2. The Component Defect Flag (C007) is for Railinc Administrators only.
- 3. Return to Step <u>9</u> for Save instructions and troubleshooting.

# Add Couplers

### Exhibit 23. Add New Coupler

AAR Component ID:		
Company Code RAIL	Ŧ	
Component ID Number		
0000008511		
mponent Type		
OUPLER	<b>*</b>	
		🖺 Save 🗶 Cano
Rase Flements		
Component Registration Date (C010):		
component registration bate (CON).	•	
* Coupler Condition Code (C601):		
Coupler AAR Code Number (C602):		
* Coupler Catalog Number (C603):		
* Coupler Cast Month (C604):		
* Coupler Cast Year (C605):		
Coupler Serial Number (C606):		
Coupler Cavity Number (C607):		
Counter Conditional Americal (CSDR)		
Coupler Conditional Approval (Coup).		
* Coupler AAR Facility Code (C609):	Q	
Coupler Heat Number (C610):		
Coupler Heat Treat Load Number (C611):		
Coupler Reconditioner AAR Facility Code (C612):	·	
Coupler Classification Date (C613):	(mm/dd	
Reconditioner Heat Treat Load Number (C614):	(ימרמי)	
"DC" Maddae Ascili-4 (CCC)		
KG Marking Applied (C615):		
C to E Conversion Tag Applied or Present (C616):		
Component Defect Flag (C007):		
		D Gran

- 1. Enter all required fields marked with a red asterisk (\*).
  - a. Select the trademark lookup icon (Q) to open the Trademark Select pop-up.
  - b. Select a **Coupler AAR Facility Code** from the Trademarks listed. See example in <u>Exhibit 22</u>.
  - c. The Component Defect Flag (C007) is for Railinc Administrators only.
- 2. Return to Step <u>9</u> for Save instructions and troubleshooting.

# Add Brake Valve Control Emergency

AAR Component ID:				
ompany Code RAIL		-		
omponent ID Number 0000008511				
ponent Type IERVALVE		•		
				🖺 Save 🗶 Car
Base Elements				
	Component Registration Date (C010):			
	* Condition Code (C701):		·	
	* AAR OEM/Recon Facility Code (C702):		·	
	* Date Tested (C703):		(mm/dd /yyyyy)	
	Serial Number (C704):			
	* Part Number (C705):			
	MFG Configuration Code (C706):			
	* Valve Type (C707):		÷	
	Component Defect Flag (C007):			

Exhibit 24. Add New Brake Valve Control Emergency

- 1. Enter all required fields marked with a red asterisk (\*).
- 2. Return to Step  $\underline{9}$  for Save instructions and troubleshooting.

# Add Brake Valve Control Service

Exhibit 25. Add New	Brake Valve	Control Service
---------------------	-------------	-----------------

dd New Component to Registry		
AAR Component ID:		
Company Code RAIL	·····	
Component ID Number 0000008511		
mponent Type SERVVALVE		
		🖺 Save 🗶 Cance
Base Elements		
Component Registration Date (C010):		
* Condition Code (C801):	¥	
* AAR OEM/Recon Facility Code (C802):	•	
* Date Tested (C803):	(mm/dd /yyyy)	
Serial Number (C804):		
* Part Number (C805):		
MFG Configuration Code (C806):		
* Valve Type (C807):	· · · · · · · · · · · · · · · · · · ·	
Component Defect Flag (C007):		
		🖺 Save 🗶 Cancel

- 1. Enter all required fields marked with a red asterisk (\*).
- 2. Return to Step <u>9</u> for Save instructions and troubleshooting.

# **Add Side Frames**

### Exhibit 26. Add New Side Frame

Add New Component to Registry		
AAR Component ID:		
Company Code	_	
KAIL		
Component ID Number 0000008511		
Component Type SIDEFRAME	-	
		🖺 Save 🗶 Cancel
Base Elements		
Component Registration Date (C010):		
t Elde Farme Gradillan Gade (FELI)	•	
- Side Frame Condition Code (CS14):		
* Side Frame AAR Foundry Facility Code (C501):	Q	
* Side Frame Cast Month (C502):		
* Side Frame Cast Year (C518):		
* AAR Design Feature Code (C503):		
Side Frame AAR ID Code (C504):		
* MFG Pattern Number (C505):		
MEG Drawing Number (C506):		
MFG Drawing Number Revision (C507):		
MFG Serial Number (C508):		
MFG Heat Number (C509):		
MFG Heat Treat Load Number (C510):		
Side Frame Reconditioner AAR Facility Code (C511):		
Side Frame Classification / Recondition Date (CS13):	(mm/dd	
* Column Wear Plate Installed (C515):	(1939)	
* Nominal Wheel Base (C516):	<b>`</b>	
* Button Count (C517):	•	
Increased Component Life (CL) (CED)		
increased Component Life (ICL) (CS19):		
Component Defect Flag (C007):		
·		🖺 Save 🗶 Cancel

- 1. Enter all required fields marked with a red asterisk (\*).
  - a. Use the trademark lookup icon  $(\mathbf{Q})$  to open the Trademark Select pop-up.
  - b. Select the **Side Frame AAR Foundry Facility Code** from the Trademarks listed. See example in <u>Exhibit 22</u>.
  - c. The Component Defect Flag (C007) is for Railinc Administrators only.
- 2. Return to Step  $\underline{9}$  for Save instructions and troubleshooting.

# Add Slack Adjusters

#### Exhibit 27. Add New Slack Adjusters

AAR Component ID:			
ompany Code 8RIC		Ŧ	
omponent ID Number 0000008511			
ponent Type			
AKADJUST		•	
			🖺 Save 🗶 Ca
Base Elements			
	Component Registration Date (C010):		
	* Slack Adjuster Condition Code (C901):		·
	* AAR OEM/Recon Facility Code (C902):		•
	Slack Adjuster Stamped Year (C903):		
	Slack Adjuster Stamped Month (C904):		
	Slack Adjuster Recondition Date (C905):	(mm/da	J
	Slack Adjuster AAR Group (C906):		•
	* OEM Model Number (C907):		•
	* Slack Adjuster Manufacturer (C908):		*
	* Serial Number (C909):		_
	MFG Configuration Code (C910):		
	Component Defect Flag (C007):		

- 1. Enter all required fields marked with a red asterisk (\*).
- 2. Return to Step <u>9</u> for Save instructions and troubleshooting.

# Add Wheelsets

d New Component to Registry			
AAR Component ID:			
Company Code RAIL		•	
Component ID Number 8511			
nponent Type /HEELSET		Ŧ	
			Save X Cance
Sub Component ID			
	Sub Component Company Code	Sub Component ID Number	
Axle:			
Wheel 1:			
Roller Bearing 1:			
Wheel 2:			
Roller Bearing 2:			
1. Base Elements			
* Component AAR F	acility Code (C003):	Ŧ	
* Component Ass	embly Date (C004):	(mm/dd (vvv))	
* Component Ass	embly Time (C004):	(hh:mm)	
Component	Defect Flag (C007):		
Component Regist	ration Date (C010):		
component region			
Purchased C	Core Turned (C011):	•	

#### Exhibit 28. Add New Wheelset - 1. Base Elements

- 1. The Sub Component ID section is optional.
- Enter all required fields marked with a red asterisk (\*) for this component. Complete Section
   Base Elements and scroll to the Section 2. Axle.

2. Axle	
AAR Facility Code (C303):	
* Manufacture Date (C304):	(mm/dd /yyyy)
* Manufacture Time (C304):	(hh:mm)
* Nominal Diameter (C305):	·
* Nominal Length (C306):	
* AAR Condition Code (C307):	¥
Serial Number And Heat ID (C308):	
* AAR Type (C309):	
* Grade (C310):	· · · · · · · · · · · · · · · · · · ·
* Body Design (C313):	·
Int Extended Axle Codes (C316):	
Axle Dust Guard Size (C317):	
Extended Seal Wear Ring (C318):	

Exhibit 29. Add New Wheelset - 2. Axle

3. Complete Section 2. Axle and scroll to the Section 3.

Exhibit 30. Add New Wheelset - 3.1 Wheel 1

3. Wheel Group 1	
3.1 Wheel 1	
AAR Facility Code (C103):	
Manufactured Date (C104):	(mm/dd /yyyy)
Manufactured Time (C104):	(hh:mm)
* Stamped Year (C105):	
* Stamped Month (C106):	
* Stamped Manufacturer Code (C107):	
* Stamped Class (C108):	
* Rim Thickness Side Scale Reading (C109):	
* Finger Gauge Reading (C110):	
* Stamped Serial Number (C111):	
Heat/Melt (C112):	
* Nominal Diameter (C113):	¥
* Design Code (C114):	¥
* Plate Type (C115):	
Tape Size (C116):	
* New Turned (C117):	
Rim Type (C118):	
AAR Contour for Freight Car Wheels (C119):	<b></b>

4. Complete Section 3.1 and scroll to Section 3.2.

	0	
3.2 Roller Bearing 1		
* OEM Reconditioner Facility Code (C203):	· · · · · · · · · · · · · · · · · · ·	
* Manufacture Date (C204):	(mm/dd /yyyy)	
* Manufacture Time (C204):	(hh:mm)	
Cup Serial Number (C205):		
Cup Stamped Year (C206):		
Cup Stamped Month (C207):		
* Nominal Diameter (C208):	<b>`</b>	
* Nominal Length (C209):	<b>-</b>	
* Certificate Number (C210):	<b>~</b>	
* New or Reconditioned (C211):	<b>~</b>	
AAR Extended Bearing Code (C212):		
* Seal Type (C213):	<b>_</b>	
* Grease Type (C214):	<b>~</b>	
* Cage Type (C215):		
* Backing Ring Type (C216):	¥	
Bearing Locking Plate Type (C217):		
Bearing Seal Wear Ring Type (C218):		

Exhibit 31. Add New Component - 3.2 Roller Bearing 1

5. Complete Section 3.2 and scroll to Section 4.

4. Wheel Group 2		
4.1 Wheel 2		
Wheel 2 same as Wheel 1		
AAR Facility Code (C103):	· · ·	
Manufactured Date (C104):	(mm/dd /yyyy)	
Manufactured Time (C104):	(hh:mm)	
* Stamped Year (C105):		
* Stamped Month (C106):		
* Stamped Manufacturer Code (C107):	•	
* Stamped Class (C108):	·	
* Rim Thickness Side Scale Reading (C109):		
* Finger Gauge Reading (C110):		
* Stamped Serial Number (C111):		
Heat/Meit (C112):		
* Nominal Diameter (C113):	·	
* Design Code (C114):	•	
* Plate Type (C115):	·	
Tape Size (C116):		
* New Turned (C117):	*	
Rim Type (C118):		
* AAR Contour for Freight Car Wheels (C119):	*	

Exhibit 32. Add New Wheelset - 4.1 Wheel 2

6. When Wheel 2 is the same as Wheel 1, check the box for **Wheel 2 same as Wheel 1** to automatically fill the fields. Complete Section 4.1 and scroll to the next section.

4.2 Roller Bearing 2		
Bearing 2 same as Bearing 1		
* OEM Reconditioner Facility Code (C203):	· · ·	
* Manufacture Date (C204):	(mm/dd /yyyy)	
* Manufacture Time (C204):	(hh:mm)	
Cup Serial Number (C205):		
Cup Stamped Year (C206):		
Cup Stamped Month (C207):		
* Nominal Diameter (C208):	<b>-</b>	
* Nominal Length (C209):	· · · · · · · · · · · · · · · · · · ·	
* Certificate Number (C210):	<b>`</b>	
* New or Reconditioned (C211):	<b>-</b>	
AAR Extended Bearing Code (C212):		
* Seal Type (C213):	<b>`</b>	
* Grease Type (C214):	<b>~</b>	
* Cage Type (C215):	*	
* Backing Ring Type (C216):		
Bearing Locking Plate Type (C217):	¥	
Bearing Seal Wear Ring Type (C218):	<b>`</b>	

Exhibit 33. Add New Wheelset - 4.2 Roller Bearing 2

- 7. When Bearing 2 is the same as Bearing 1, check the box for **Bearing 2 same as Bearing 1** to automatically fill the fields.
- 8. Return to Step  $\underline{9}$  for Save instructions and troubleshooting.

# Add Pressure Relief Valve

Exhibit 34	Add	New	Pressure	Relief	Valve
------------	-----	-----	----------	--------	-------

Add New Component to Registry		
AAR Component ID:		
Company Code		
KAIL		
000008511		
Component Tuna		
PRVALVE	•	
		E Carcel
Base Elements		
Component Registration Date (C010):		
* PRV Condition Code (D101):	•	
* AAR Tank Car Facility Code (D102):	•	
<ul> <li>Original Manufacturer (MFG) Facility Code (D103):</li> </ul>		
* PRV Base Model Number (D104):	•	
Manufacturer Part Number (Original) (D105):		
t Parts Maturial (D106)	•	
- bouy waterial (D loo):		
PRV Serial Number (D107):		
PRV Built Month (D108):		
PRV Built Year (D109):		
* PRV Set Pressure (Design Nominal) (D110):	•	
* AAR Approval Number (D111):		
AAR Service Trial Number (D112):		
* PRV Qualification Date (As Tested) (D113):	🖾 (mm/dd	
* PRV Start-to-Discharge Pressure (As Tested) (D114):	(זענע)	
- rkv Vapor Light Pressure (As Lested) (D115):		
* O-Ring/Seal Material Applied (As Tested) (D116):		
AAR Group (D117):		
* Certifier ID (D118):		
Component Defect Flag (C007):		
		E Save X Cancel

- 1. Enter all required fields marked with a red asterisk (\*).
- 2. Return to Step <u>9</u> for Save instructions and troubleshooting.

# Add Cushioning Unit

### Exhibit 35. Add New Cushioning Unit

AAR Component ID:		
Company Code		
RAIL	·	
Component ID Number		
000008511		
iponent Type		
JSHUNIT	·	
		🖺 Save 🗶 Car
Page Elemente		
Component Registration Date (C010):		
* Condition Code (D201):		
* AAR OEM/Recon Facility Code (D202):		
Manufacture Year (D203):		-
Manufacture Manufa (D204)		
Manuacture Month (0204):		-
Reconditioned Date (D205):		-
* Manufacturer (D206):	•	
		-
* Serial Number (D207):		-
* OEM Model Number (D208):	·	
* AAR Specification (D209):		99.
* Travel Length (D210):		-
Component Defect Flag (C007):		

- 1. Enter all required fields marked with a red asterisk (\*).
- 2. Return to Step  $\underline{9}$  for Save instructions and troubleshooting.

# **Upload Components CSV**

Uploads can be used to quickly submit multiple components that are similar (e.g., 100 wheelsets with no differences except serial numbers and component IDs), to correct fields throughout entire sets of components, or to delete large numbers of incorrectly or prematurely registered components. Users can upload component information from proprietary systems in an acceptable CSV format. Use the following procedure to upload a component CSV file:

- 1. Log onto Umler as described in Logging In. The Umler Home page is displayed (Exhibit 8).
- Select Component Registry > Registration. The Search Component Registry tab page is displayed (<u>Exhibit 12</u>).
- 3. Select the Upload CSV tab. Browse files to find a components CSV is displayed (Exhibit <u>36</u>).

Exhibit 36. Browse Files to Find a Components CSV

Search	Add New	Upload CSV	Field Registration		
Browse files to find a	a components CSV				
	File	name.csv: Browse No	file selected.	Retrieve csv format templates	
					Submit

To prepare your files for upload, you can use formatted templates available on Railinc's <u>Component Tracking page</u>. Select the **Retrieve csv format templates** link in the application and select the <u>CSV Templates zip file</u> in the **Related Documents** section to open or save the templates (<u>Exhibit 40</u>). For more information on preparing your files, see <u>CSV Registration Upload File</u> <u>Preparation</u>.

When your CSV file is properly prepared, upload the file.

4. Select the Browse button to locate a file on your computer upload (Exhibit 37).

Exhibit 37. Choose File For Upload

📦 File Upload				×
← → ▾  📕 « Compo	nent Tracking CEPM > Download-Up	ploads → v Ö	,O Search Download	-Uploads
Organize 👻 New folder				•
<ul> <li>৵ Quick access</li> <li>Documents</li> <li>↓ Downloads</li> <li>Pictures</li> </ul>	* * *	Name  CSV Templates CSV_July8Upload.csv		Status ② ②
	~ <			
File name:		· · · · · · · · · · · · · · · · · · ·	All Files Open	∨ Cancel
- 5. Select the file and select **Open**. **Browse Files to Find a Components CSV** is redisplayed with the selected file.
- 6. Select **Submit**. A message is displayed (<u>Exhibit 38</u>). If the upload is successful, you'll receive a green message at the top letting you know if your file has been successfully submitted.

Exhibit 38. Successful Components Upload

Search	Add New	Upload CSV	Field Registration	
Browse files to find	a components CSV			
The CSV file	was successfully submitte	d for processing. You will	receive a status on the submission, once processing is complete. The message will be sent to your registered email address.	×
		Filename.csv: Brov	se) No file selected. Retrieve csv format templates	
				Submit

7. Check your email for a notification from the system with the status of the records you submitted <u>Exhibit 39</u>).

Exhibit 39. Email With Upload Submission Status



If errors occurred in processing the file, those errors are identified by Component ID and field-by-field. These details can assist in correcting the upload file before uploading and submitting again.

8. Optionally, if the transactions for your uploaded records were successfully completed, check Component Tracking to verify a few records in the upload have been appropriately changed (e.g., deleted components are *not* found, new components are found, fields changed reflect those changes, etc.). Use the Component Registration Search function as described in <u>Search</u>.

# **CSV** Registration Upload File Preparation

Exhibit 40. Registration CSV Upload Template in Excel

	AutoSave 💽 🕅 📙	] り・C・ <del>、</del>	RAIL_2022	_Wheelset Regis	tration.csv - Excel	l	🔎 Search				
F	ile Home In	isert Page Layout	Formulas D	ata Revie	w View A	utomate	Help Acrob	at			
А	1 • :	× ✓ ƒ <sub>×</sub> Tr	ansactionType								
	A	В	с	D				н			ĸ
1	TransactionType	ComponentID	ComponentType	BASE-C003	BASE-C004	BASE-C011	AXLE:1-C303	AXLE:1-C304	AXLE:1-C305	AXLE:1-C3	AXLE:
2	AC	RAIL0000000101	WHEELSET	AADC	20220607 08:00	N	ABG	20220215 08:00	6.5	12	
3	CC	RAIL000000102	WHEELSET	BNN	20220607 08:00	N	CNW	20220215 08:00	6.5	12	
4	DC	RAIL000000103	WHEELSET	CNW	20220607 08:00	Υ	GUNW	20220215 08:00	6.5	12	
5											

The fields are as described in the online Element Help links and in the <u>Umler Component</u> <u>Tracking Data Specifications Manual</u> available on the <u>Umler product page</u>.

The Transaction Type indicates the action the user wants for each record (row) of information entered:

### For component registrations:

- **AC** = Add Component
- **CC** = Change Component
- **DC** = Delete Component

**Notes:** • Your uploaded file can contain all three types of transactions.

- Large text entries should not contain commas (which are interpreted as field delimiters). Use dashes or other keyable characters.
- Changes require a Component ID and only those fields with changes (other fields are left untouched).
- Deletions require a Component ID only.
- Adds must contain all mandatory fields.
- For more information, see <u>Umler Bulk Upload Transactions CSV File</u> <u>Specifications</u>. Also available on the <u>Umler product page</u>.

# **Field Registration**

**Note:** Users adding field registrations are expected to be familiar with the Job Codes, Condition Codes, and Qualifiers as found in the AAR Field Manual Rules 36, 41, 43, and 44. Component Tracking validates Job Codes and its related qualifiers and Condition Codes. Use the <u>Component Tracking Data Specifications Manual</u> as needed.

Inventoried components (manufactured pre-Component Tracking without barcodes) can be registered with other characteristics using the Field Registration function.

Exhibit 41. Field Registration Select a Component Type

Search	Add New	Upload CSV	Field Registration	
Select a component	type			
Component Type *				
BOLSTER			⊠ Search	
- COUPLER				
CUSHIONING UNIT				
BRAKE VALVE CONTR	OL EMERGENCY			
PRESSURE RELIEF VA	LVE			
BRAKE VALVE CONTR	OL SERVICE			
SIDE FRAME				
SLACK ADJUSTER				
WHEELSET			~	

Select the **Component Type** from the drop-down and select **Search**. Select the appropriate component below to field registration instructions:

- <u>Bolsters</u>
- <u>Couplers</u>
- Brake Valve Control Emergency
- Brake Valve Control Service
- <u>Sideframe</u>
- <u>Slack Adjuster</u>
- <u>Wheelsets</u>
- <u>Cushioning Units</u>

**Note:** It is best practice to search prior to starting a field registration to verify the Component ID doesn't already exist.

## **Bolsters**

1. The Search if Bolster is Registered page displays.

### Exhibit 42. Search if Bolster is Registered

Search	Add New	Upload CSV	Field Registration
Search if Bolster is	Registered		
Note: Enter the Cast D	ate, Manufacturer and (Se	rial Number or Pattern Nu	mber)
Manufacturer			
Cast Month/Year			
MFG Pattern Number			
Serial Number			
			Q Search + Register X Cancel

Exhibit 43 shows where to find marks and information on the bolster.

Exhibit 43. Bolster Reference Diagram



- 2. Enter the Manufacturer and Cast Month/Year.
- 3. Enter one of the following:
  - MFG Pattern Number or
  - Serial Number
- 4. Select Search.
  - a. If a matching component is found (<u>Exhibit 44</u>), no field registration is necessary and the bolster can be associated with the Equipment ID as described in <u>Bolster Association</u>.

Exhibit 44. Field Registration Search Showing Component Found

Search	Add New	Upload CSV	Field Registration			
Search if Bolster is R	egistered					
Note: Enter the Cast Dat	e, Manufacturer and (S	erial Number or Pattern I	Number)			
Manufacturer						
ASFG				_		
Cast Month/Year						
0412						
MFG Pattern Number						
123430780000				_		
Serial Number						
				_		
						Search + Register × Cancel
					_	
Component ID	Manufacture	Cast Month/Year	AAR Design Feature Code	MFG Pattern Number	Serial Number	Component Registration Date
8RIC0003491764	ASFG	4/12	BOL-000-0001	1234567B0000	B35520000A	09/22/2023 22:09

b. If no matching component is found (<u>Exhibit 45</u>), select **Register**. The Field Registration Elements tab is displayed (<u>Exhibit 46</u>).

Exhibit 45. Field Registration Search With Component Not Found

Search	Add New	Upload CSV	Field Registration
Search if Bolster is	Registered		
Your search Please click	parameters did not match Register to complete a Fie	a component currently r Id Registration.	egistered in the Umler Component Registry.
Note: Enter the Cast D	ate, Manufacturer and (Se	rial Number or Pattern N	umber)
ASFG			
Cast Month/Year 04/12			
MFG Pattern Number 1234567B0000			
Serial Number B35520000A			
			Q Search + Register × Cancel

Search	Add New	Upload CSV	Field Registration
Please fill in the follo	owing information to c	complete a field regist	ration.
Field Registration E	Elements		
	Component Reg	jistration Date (C010):	
	Bolster C	ondition Code (C414):	<b>`</b>
	* Bolster AAR Foundry	/ Facility Code (C401):	ASFG - AMSTED RAIL COMPANY, Granite City, IL
	* Bolste	er Cast Month (C402):	04
	* Bo	Ister Cast Year (C417):	12
	* AAR Design	Feature Code (C403):	
	Bolster	AAR ID Code (C404):	
	* MFG Pa	ttern Number (C405):	123456780000
	MFG S	Serial Number (C408):	835520000A
* Wear Plat	te Installed by Foundry /	Reconditioner (C415):	T - TES
	Increased Compo	nent Life (ICL) (C418):	
			😫 Save 🗶 Cancel

Exhibit 46. Bolster Field Registration Elements

- 5. Once all mandatory fields marked with a red asterisk (\*) are entered, select **Save**.
  - a. When validation fails, an error message is shown beside the invalid entry (Exhibit 47).

Search	Add New	Upload CSV	Field Registration		
Please fill in the follow	wing information to cor	mplete a field registi	ration.		
Transaction fai	iled due to validation error	rs, see below for detail	S.		×
Field Registration Ele	ements				
	Component Regist	tration Date (C010):			
	Bolster Con	dition Code (C414):		*	
	* Bolster AAR Foundry F	acility Code (C401):	ASFG - AMSTED RAIL COMPANY, Granite City, IL	<u> </u>	
	* Bolster	Cast Month (C402):	04		
	* Bolst	er Cast Year (C417):	12		
	* AAR Design Fe	eature Code (C403):			AAR Design Feature Code must begin with B,Invalid for Mandatory Elements
	Bolster A	AR ID Code (C404):			
	* MFG Patte	ern Number (C405):	1234567B0000		
	MFG Ser	rial Number (C408):	B35520000A		
* Wear Plate	Installed by Foundry / Re	conditioner (C415):	Y - Yes	•	
	Increased Compone	nt Life (ICL) (C418):		-	
					🖺 Save 🗶 Cancel

Exhibit 47. Bolster Field Registration With Error

In Exhibit 47, a mandatory field was not completed.

b. When validation is successful, Component Tracking generates a unique bolster component ID (<u>Exhibit 48</u>).

Soarch	Add Now	Upload CSV	Field Pagistration	
Search	Add New	Opload CSV	rield Registration	
ease fill in the foll	owing information to co	omplete a field regist	tration.	
Components	added to the Component P	agistov 8DIC000240176	-	
Component	added to the Component K	legisti y okicooo345170	9 <del>9</del>	
				+ Add New
Field Registration I	Elements			
	Component Regi	istration Date (C010):		
	Bolster Co	ondition Code (C414):	•	
	* Bolster AAR Foundry	Facility Code (C401):	ASFG - AMSTED RAIL COMPANY, Granite City, IL	
	* Bolste	r Cast Month (C402):	04	
	* Bol	ster Cast Year (C417):	12	
	* AAR Design	Feature Code (C403):	BOL-000-0001	
	Bolster	AAR ID Code (C404):		
	* MFG Pat	ttern Number (C405):	1234567B0000	
	MFG S	erial Number (C408):	B35520000A	
* Wear Pla	ate Installed by Foundry / F	Reconditioner (C415):	Y - Yes 🔹	
	Increased Compon	ent Life (ICL) (C418):	•	
ipment ID			GZ Associate	

### Exhibit 48. Successful Bolster Field Registration

- c. In <u>Exhibit 48</u>, the new component ID is provided in the success message at the top. The bolster can now be associated with an Equipment ID as described in <u>Bolster Association</u>.
- 6. To edit the current registration, select Edit.
- 7. To add another bolster registration, select **Add New**. The Search if Bolster is Registered page is displayed (<u>Exhibit 42</u>).

## Couplers

1. The Search if Coupler is Registered page displays.

Exhibit 49. Search if Coupler is Registered

Search	Add New	Upload CSV	Field Registration
Search if Coupler is	Registered		
Cast Month/Year *			
Catalog Number *			
Serial Number			
Cavity Number			
			<b>Q</b> Search + Register <b>X</b> Cancel

Exhibit 50 shows where needed information can be found on the coupler.

Exhibit 50. Coupler Reference Diagram



- 2. Enter the Cast Month/Year and the Catalog Number.
- 3. Enter the Serial Number (optional).
- 4. Select Search.

- a. If a matching component is found (similar to <u>Exhibit 44</u>), no field registration is necessary and the coupler can be associated with the Equipment ID as described in <u>Coupler Association</u>.
- b. If no matching component is found (similar to <u>Exhibit 45</u>), select **Register**. The Field Registration Elements page is displayed (<u>Exhibit 51</u>).

Exhibit 51. Coupler Field Registration Elements

Search	Add New	Upload CSV	Field Registration	
Please fill in the foll	owing information to c	complete a field regist	ration.	
Field Registration E	Elements			
	Component Re	gistration Date (C010):		
	Coupler C	ondition Code (C601):		
	* Coupler Ca	talog Number (C603):	ASFGCOUPD	
	* Couple	er Cast Month (C604):	07	
	* Cou	ipler Cast Year (C605):	13	
	Coupler	Serial Number (C606):	СРООААВВ	
	Coupler C	Cavity Number (C607):		
	Coupler Conditi	onal Approval (C608):		
	* Coupler AAR	R Facility Code (C609):	Q	
	Coupler Class	sification Date (C613):	(mm/dd /yyyy)	
	"RG" M	arking Applied (C615):	¥	
С	to E Conversion Tag App	lied or Present (C616):		
				🖺 Save 🗶 Cancel

- 5. Once all mandatory fields marked with a red asterisk (\*) are entered, select **Save**.
  - a. When validation fails, an error message is shown beside the invalid entry (similar to Exhibit 47).
  - b. When validation is successful, Component Tracking generates a unique coupler component ID (<u>Exhibit 52</u>).

Search	Add New	Upload CSV	Field Registration		
ease fill in the followir	ng information to con	plete a field registr	ation.		
Component added	d to the Component Reg	istry 8RIC0003491766	5		×
				+ Add New	🕼 Edit
Field Registration Elem	ents				
	Component Regist	ration Date (C010):			
	Coupler Conc	lition Code (C601):	-		
	* Coupler Catalo	g Number (C603):	ASFGCOUPD		
	* Coupler C	ast Month (C604):	07		
	* Couple	r Cast Year (C605):	13		
	Coupler Seri	al Number (C606):	CPOOAABB		
	Coupler Cavi	ty Number (C607):			
	Coupler Conditiona	I Approval (C608):	·····		
	* Coupler AAR Fa	cility Code (C609):	SSBI - SIVYER STEEL CORPORATION, Bettendorf, IA 👻 🔍		
	Coupler Classific	ation Date (C613):			
	"RG" Marki	ng Applied (C615):	*		
C to E	Conversion Tag Applied	or Present (C616):	Υ - Yes ····		
uipment ID			Fr Associate		

Exhibit 52. Successful Coupler Field Registration

- c. In <u>Exhibit 52</u>, the new component ID is provided in the success message at the top. The coupler can now be associated with an Equipment ID as described in <u>Coupler</u> <u>Association</u>.
- 6. To edit the current registration, select **Edit**.
- 7. To add another coupler registration, select **Add New**. The Search if Coupler is Registered page is displayed (<u>Exhibit 49</u>).

# **Brake Valve Control Emergency**

1. The Search if Emervalve is Registered page displays.

### Exhibit 53. Search if Emervalve is Registered

Search	Add New	Upload CSV	Field Registration
Search if Emervalve	is Registered		
Facility Code, Part Nur	mber and Valve Type are re	equired	
Reconditioner Facility	Code *		
Date Valve Tested			<u> </u>
Serial Number			
Part Number *			
Valve Type *			·
			Q Search + Register X Cancel

Exhibit 54 shows where the name plate is located and Exhibit 55 shows where the needed information can be found on the name plate.

Exhibit 54. Brake Valve Control Emergency Name Plate Location





Exhibit 55. Brake Valve Control Emergency and Service Name Plates

- 2. Enter the **Reconditioner Facility Code**, **Part Number** and select the **Valve Type** from the drop-down list.
- 3. Optionally, enter or select the **Date Valve Tested** and the **Serial Number**.
- 4. Select **Search** to initiate the search for the specified equipment.
  - a. If a matching component is found (similar to <u>Exhibit 44</u>), no field registration is necessary and the brake valve control emergency can be associated with the Equipment ID as described in <u>Brake Value Control Emergency Association</u>.
  - b. If no matching component is found (similar to <u>Exhibit 45</u>), select **Register**. The Field Registration Elements page is displayed (<u>Exhibit 56</u>).

Exhibit 56. Brake Valve Control Emergency Field Registration Elements

Search	Add New	Upload CSV	Field Registration
Search if Emervalve	e is Registered		
Facility Code, Part Nu	mber and Valve Type are n	equired	
Reconditioner Facility Code *			
GMWS			
Date Valve Tested			
Serial Number			
Part Number *			
54			
Valve Type *			
ABDS - ABDS-Emerge	ency		Ŧ
			Q Search + Register X Cancel

5. Complete all required elements for the brake valve control emergency.

- 6. Once all mandatory fields marked with a red asterisk (\*) are entered, select **Save**.
  - a. When validation fails, an error message is shown beside the invalid entry (similar to Exhibit 47).
  - b. When validation is successful, Component Tracking generates a unique brake valve control emergency component ID (Exhibit 57).

Exhibit 57. Successful Brake Valve Control Emergency Field Registration

Component added to the Component	nent Registry 8RIC	0003491768			
				+ Add New	C E
Field Registration Elements					
Component Registrat	ion Date (C010):				
* Conditi	on Code (C701):	1 - New	-		
* AAR OEM/Recon Facil	ity Code (C702):	GMWS - GRAHAM-WHITE N	/ANUFACTURING CO 👻		
* Dat	e Tested (C703):	01/14/2015	(mm/dd /yyyy)		
Serial	Number (C704):				
* Part	Number (C705):	54			
MFG Configurati	on Code (C706):				
* Va	lve Type (C707):	ABDS - ABDS-Emergency	•		

- c. In <u>Exhibit 57</u>, the new component ID is provided in the success message at the top. The brake valve control emergency can now be associated with an Equipment ID as described in Brake Value Control Emergency Association.
- 7. To edit the current registration, select **Edit**.
- 8. To add another brake valve control emergency registration, select **Add New**. The Search if Brake Valve Control Emergency is Registered page is displayed (Exhibit 53).

# **Brake Valve Control Service**

1. The Search if Servvalve is Registered page displays.

### Exhibit 58. Search if Servvalve is Registered

Search	Add New	Upload CSV	Field Registration
Search if Servvalve	is Registered		
Facility Code, Part Nu	mber and Valve Type are re	equired	
Reconditioner Facility	Code *		
Date Valve Tested			
Serial Number			
Part Number *			
Valve Type *			<b>v</b>
			Q Search + Register X Cancel

Exhibit 59 shows where the name plate is located and Exhibit 55 shows where the needed information can be found on the name plate.



Exhibit 59. Brake Valve Control Service Name Plate Location

- 2. Enter the **Reconditioner Facility Code**, **Part Number** and select the **Valve Type** from the drop-down list.
- 3. Optionally, enter or select the **Date Valve Tested** and the **Serial Number**.
- 4. Select **Search** to initiate the search for the specified equipment.

- a. If a matching component is found (similar to <u>Exhibit 44</u>), no field registration is necessary and the brake valve control service can be associated with the Equipment ID as described in <u>Brake Value Control Service Association</u>.
- b. If no matching component is found (similar to <u>Exhibit 45</u>), select **Register**. The Field Registration Elements page is displayed (<u>Exhibit 60</u>).

Exhibit 60. Brake Valve Control Service Field Registration Elements

Search	Add New U	Jpload CSV	Field Registratio	on			
lease fill in the fo	llowing information to complet	te a field registr	ation.				
Field Registration	Elements						
	Component Registration Date (C0'	10):					
	* Condition Code (C80	01):			*		
* A	AR OEM/Recon Facility Code (C80	02): EN - ELLO	CON NATIONAL, Gree	nville, SC U.S.A.	*		
	* Date Tested (C80	01/22/20	115	(mm/c	dd )		
	Serial Number (C80	)4):					
	* Part Number (C80	<b>)5):</b> 3					
	MFG Configuration Code (C80	06):					
	* Valve Type (C80	ABD - AB	ID-Service		·		
						III) Sava	M Cancel

- 5. Once all mandatory fields marked with a red asterisk (\*) are entered, select Save.
  - a. If validation fails, an error message is shown beside the invalid entry (similar to  $\frac{\text{Exhibit}}{47}$ ).
  - b. If validation is successful, Component Tracking generates a unique brake valve control service component ID (<u>Exhibit 61</u>).

Component added to the Component Registry 8RIC	0003491769			
-			+ Add New	<b>⊘</b> Ed
Field Registration Elements				
Component Registration Date (C010):				
* Condition Code (C801):	3 - Reconditioned	▼		
* AAR OEM/Recon Facility Code (C802):	EN - ELLCON NATIONAL, Gr	eenville, SC U.S.A. 👻		
* Date Tested (C803):	01/22/2015	i (mm/dd /yyyy)		
Serial Number (C804):				
* Part Number (C805):	3			
MFG Configuration Code (C806):				
* Valve Type (C807):	ABD - ABD-Service	•		

Exhibit 61. Successful Brake Valve Control Service Field Registration

- c. In <u>Exhibit 61</u>, the new component ID is provided in the success message at the top. The brake valve control service can now be associated with an Equipment ID as described in <u>Brake Value Control Service Association</u>.
- 6. To edit the current registration, select Edit.
- 7. To add another brake valve control service registration, select **Add New**. The Search if Brake Valve Control Service is Registered page is displayed (<u>Exhibit 58</u>).

## **Slack Adjuster**

1. The Search if Slack Adjuster is Registered page displays.

### Exhibit 62. Search if Slack Adjuster is Registered

Search	Add New	Upload CSV	Field Registra	tion			
Search if Slack Adj	uster is Registered						
Note: Enter the Condi	tion, Manufacturer and Mc	del Number					
Condition *			~				
Facility Code			•				
Stamped Month/Year							
Recondition Date			۲				
AAR Group			-				
OEM Model Number	¢		•				
Manufacturer *			•				
Serial Number							
Configuration Numbe	r						
					Q Search	+ Register	× Cancel

Exhibit 63 shows where the name plate is located and Exhibit 64 shows where the needed information can be found on the name plate.

Exhibit 63. Slack Adjuster Name Plate Location







- 2. Select the Condition Code and the AAR OEM/Recon Facility Code.
- 3. Enter the Stamped Month/Year.
- 4. Enter or select the **Recondition Date** when the Condition Code is 3.
- 5. Select the AAR Group and OEM Model Number.
- 6. Select the **Manufacturer**.
- 7. Enter the Serial Number and the Configuration Number.
- 8. Select **Search** to initiate the search for the specified equipment.
  - a. If validation fails, an error message is shown beside the invalid entry (see example in Exhibit 47).
  - b. If no matching component is found (similar to <u>Exhibit 45</u>), select **Register**. The Field Registration Elements page is displayed.
- 9. When Condition Code is 3, enter the MFG Configuration Code.
- 10. Once all mandatory fields are entered, select Save.
  - a. If validation fails, an error message is shown beside the invalid entry (see example in <u>Exhibit 47</u>).
  - b. If validation is successful, Component Tracking generates a unique slack adjuster component ID (<u>Exhibit 65</u>).

Component added	to the Component Registry 8RIC	0003491770	
			+ Add New
Field Registration Eleme	ents		
Compo	onent Registration Date (C010):		
* Slack A	djuster Condition Code (C901):	1 - New	<b>,</b>
AAR OE	M/Recon Facility Code (C902):	CWE - CARDWELL WESTINGHOUSE COMPANY, 🤜	
Slack	Adjuster Stamped Year (C903):	20	
Slack Ad	ljuster Stamped Month (C904):	04	
Slack Adji	uster Recondition Date (C905):	(mm/dd /yyyy)	
Sla	ck Adjuster AAR Group (C906):	E - Group E	·
	* OEM Model Number (C907):	KRD-133L - KRD-133L	•
* Slack	Adjuster Manufacturer (C908):	NY - New York Air Brake Co	•
	Serial Number (C909):		
м	IFG Configuration Code (C910):		

### Exhibit 65. Successful Slack Adjuster Field Registration

- c. In <u>Exhibit 65</u>, the new component ID is provided in the success message at the top. The slack adjuster can now be associated with an Equipment ID as described in <u>Slack</u> <u>Adjuster Association</u>.
- 11. To edit the current registration, select Edit.
- 12. To add another slack adjuster registration, select Add New. The Search Slack Adjuster is Registered page is displayed (<u>Exhibit 62</u>).

### Sideframe

1. The Search if Sideframe is Registered page displays.

### Exhibit 66. Search if Sideframe is Registered

Search	Add New	Upload CSV	Field Registration
Search if Sideframe	is Registered		
Note: Enter the Cast D	ate, Manufacturer and (Se	rial Number or Pattern N	umber)
Manufacturer			
Cast Month/Year			
MFG Pattern Number			
Serial Number			
			<b>Q Search</b> + Register <b>X</b> Cancel

Exhibit 67 shows where needed information can be found on the side frame.



Exhibit 67. Side Frame Reference Diagram

2. Enter the Manufacturer and the Cast Month/Year.

- 3. Enter one of the following:
  - MFG Pattern Number or
  - Serial Number
- 4. Select Search.
  - a. If a matching component is found (see example in <u>Exhibit 44</u>), no field registration is necessary and the side frame can be associated with the Equipment ID as described in <u>Side Frame Association</u>.
  - b. If no matching component is found (see example in <u>Exhibit 45</u>), select **Register**. The Field Registration Elements page is displayed (<u>Exhibit 68</u>).

Search	Add New	Upload CSV	Field Registration
Please fill in the fol	lowing information to comple	ete a field regis	stration.
Field Registration	Elements		
Co	omponent Registration Date (C01	0):	
	Side Frame Condition Code (C51	4):	·
* Side Frame	AAR Foundry Facility Code (C50	1):	Q
	* Side Frame Cast Month (C50	<b>2):</b> 07	
	* Side Frame Cast Year (C51	8):	
	* AAR Design Feature Code (C50	3):	
	Side Frame AAR ID Code (C50	4):	
	* MFG Pattern Number (C50	5): ASGFSID	DE0888
	MFG Serial Number (C50	8):	
* (	Column Wear Plate Installed (C51	5):	· ·
	* Nominal Wheel Base (C51	6):	· · ·
	* Button Count (C51	7):	· · ·
Incr	eased Component Life (ICL) (C51	9):	<b>•</b>
			🖺 Save 🗶 Cancel

- 5. Select the trademark lookup icon  $(\mathbf{Q})$  to open the Trademark Select pop-up (Exhibit 22).
- 6. Once all mandatory fields are entered, select Save.

- a. If validation fails, an error message is shown beside the invalid entry (see example in Exhibit 47).
- b. If validation is successful, Component Tracking generates a unique sideframe component ID (Exhibit 69).

Exhibit 69. Successful Sideframe Field Registration

ase fill in the following in	nformation to complete a	a field registration.			
Component added to	the Component Registry 8R	IC0003491772			
				+ Add New	C Ed
Field Registration Elements	;				
Component	t Registration Date (C010):				
Side Fran	ne Condition Code (C514):		~		
* Side Frame AAR Fou	ndry Facility Code (C501):	ASFG - AMSTED RAIL COMPANY, Granite	<u>,</u> о		
* Side	Frame Cast Month (C502):	07			
* Sic	de Frame Cast Year (C518):	23			
* AAR De	sign Feature Code (C503):	F999-999-123			
Side Fr	rame AAR ID Code (C504):				
* MF	G Pattern Number (C505):	ASGFSIDE0888			
М	IFG Serial Number (C508):				
* Column W	/ear Plate Installed (C515):	Y - Yes	•		
* No	ominal Wheel Base (C516):	70 - 70 inches	•		
	* Button Count (C517):	2 - 2 buttons	•		
Increased Co	mponent Life (ICL) (C519):		•		

- c. In <u>Exhibit 69</u>, the new component ID is provided in the success message at the top. The sideframe can now be associated with an Equipment ID as described in <u>Sideframe</u> <u>Association</u>.
- 7. To edit the current registration, select **Edit**.
- 8. To add another sideframe registration, select **Add New**. The Search if Sideframe is Registered page is displayed (<u>Exhibit 66</u>).

### Wheelsets

1. The Search if Wheelset is Registered page displays.

### Exhibit 70. Search if Wheelset is Registered

Search	Add New	Upload CSV	Field Registration
Search if Wheelset	is Registered		
Wheel Serial Number	*		
Wheel Stamped Manu	ufacturer Code *		
Wheel Stamped Mont	th/Stamped Year		
Wheel Nominal Diam	eter		
Wheel Design Code			
			Q Search + Register X Cancel

- 2. Enter the Wheel Serial Number and Wheel Stamped Manufacturer Code.
- 3. Optionally, enter any of the other available criteria:
  - a. Wheel Stamped Month/Stamped Year
  - b. Wheel Nominal Diameter
  - c. Wheel Design Code
- 4. Select Search.
  - a. If a matching component is found (see example in <u>Exhibit 44</u>), no field registration is necessary and the wheelset can be associated with the Equipment ID as described in <u>Wheelset Association</u>.
  - b. If no matching component is found (see example in <u>Exhibit 45</u>), select **Register**. The Field Registration page is displayed (<u>Exhibit 71</u>).

Search	Add New	Upload CSV	Field Registration
ase fill in the foll	owing information to c	omplete a field regist	ration.
1. Wheelset			
	* AAR Facili	ty Code (C003):	<u>т</u> Q
	* Ap	oplied Job Code:	
	* (	Condition Code:	
	Component Registrati	on Date (C010):	
2. Axle			
	* Ap	oplied Job Code:	
	* (	Condition Code:	

Exhibit 71. Wheelset Field Registration – Section 1-2

- 5. Enter required fields in 1. Wheelset (Rule 44):
  - a. **AAR Facility Code**—The AAR Facility Code is the QA Code for the wheel shop that pressed the wheelset. Use the Mechanical Inspection Department (MID) Code found on the wheelset locking plate to determine the QA Code. Use the MID lookup icon (Q) to select the matching code (Exhibit 72).

Exhibit 72. MID Search

	Search type Contains	•		
			-	
	MID Code			
	Α		-	
	QA Code			
			🥒 Clear 🛛 🗸	Search
owing 21 entries.			🥒 Clear	Search
owing 21 entries.	MID CODE		Clear CA CODE	Cearch
owing 21 entries.	MID CODE	AMIS	QA CODE	Search
owing 21 entries.	MID CODE	AMIS ACWV	QA CODE	Search
owing 21 entries. AAXS ACXH AL	MID CODE	AMIS ACWV AL	QA CODE	Search
AAXS ACXH AL AMAR	MID CODE	AMIS ACWV AL ARNY	QA CODE	Search

Scroll down to the desired MID Code, select the radio button to the left, and select **Select**. The pop-up closes with your selection in the AAR Facility Code field.

- b. Applied Job Code—must be valid 4-digit AAR Job Code for Wheelsets
- c. Condition Code—must be valid 1-digit code for wheelsets
- 6. Enter required fields in 2. Axle (Rule 43):
  - a. Applied Job Code—must be valid 4-digit AAR Job Code for Axles
  - b. Condition Code—must be valid 1-digit code for axles

Exhibit 73. Wheelset Field Registration – Section 3

3. Wheel Group 1		
3.1 Wheel 1		
* Applied Job Code:		
* Applied Qualifier:		
* Condition Code:	7	
* Stamped Year (C105):		
* Stamped Month (C106):		
* Stamped Manufacturer Code (C107):	P - British Steel, Tempelborough and Ickles Works (Prior 💌	
* Stamped Class (C108):	•	
* Rim Thickness Side Scale Reading (C109):		
* Finger Gauge Reading (C110):		
* Stamped Serial Number (C111):	P140022	
AAR Contour for Freight Car Wheels (C119):	•	
3.2 Roller Bearing 1		
* Applied Job Code:		
* Applied Qualifier:		
* Condition Code:		

7. Enter all required fields in 3.1 Wheel Group 1 – Wheelset 1 (Rule 41):

**Note:** Select the element link to view element help in a new window. Close the window when finished with the help. Elements with a red dot (•) are mandatory. Data Types: Text, Numeric, or Timestamp/Date.

- a. Applied Job Code—must be valid 4-digit AAR Job Code for Wheels.
- b. Applied Qualifier—must be valid 2-digit qualifier for the appropriate wheel group.
- c. Condition Code—defaults to 7 (all wheels applied).
- d. Stamped Year—Select the C105 link as needed for help.
- e. Stamped Month—Select the C106 link as needed for help.
- f. **Stamped Manufacturer Code** (filled from user search input)—Select the **C107** link as needed for help.

- g. Stamped Class—Select the C108 link as needed for help.
- h. Rim Thickness Side Scale Reading—Select the C109 link as needed for help.
- i. Finger Gauge Reading—Select the C110 link as needed for help.
- j. Stamped Serial Number (filled from Search if Wheelset is Registered entry) —Select the C111 link as needed for help.
- 8. Enter all required fields in 3.2 Wheel Group 1 Roller Bearing 1 (Rule 36):
  - a. Applied Job Code—must be valid 4-digit AAR Job Code for Roller Bearings
  - b. Applied Qualifier—must be valid 2-digit qualifier for the appropriate bearing group
  - c. Condition Code—must be valid 1-digit code for bearings
- 9. Enter all required fields in 4. Wheel Group 2 (Exhibit 74).

Exhibit 74. Wheelset Field Registration – Section 4

4.1 Wheel 2		
Wheel 2 same as Wheel 1		
* Applied Job Code:		_
* Applied Qualifier:		_
* Condition Code:	7	
* Stamped Year (C105):		_
* Stamped Month (C106):		_
* Stamped Manufacturer Code (C107):	•	_
* Stamped Class (C108):	•	_
* Rim Thickness Side Scale Reading (C109):		_
* Finger Gauge Reading (C110):		_
* Stamped Serial Number (C111):		-
AAR Contour for Freight Car Wheels (C119):	•	-
4.2 Roller Bearing 2		
Bearing 2 same as Bearing 1		
* Applied Job Code:		_
* Applied Qualifier:		-
* Condition Code:		_

- 10. When Wheel 2 is the same as Wheel 1, check the **Wheel 2 same as Wheel 1** checkbox and the fields are completed with the same data as Wheel 1. When they are not the same, enter the fields as described in step <u>6</u>.
- 11. When Bearing 2 is the same as Bearing 1, check the **Bearing 2 same as Bearing 1** checkbox and the fields are completed with the same data as Bearing 1. When they are not the same, enter the fields as described in step <u>7</u>.

- 12. When all mandatory fields have been entered, select Save.
  - a. If validation fails, an error message is shown beside the invalid entry (Exhibit 75).

### Exhibit 75. Wheelset Field Registration With Error

ase fill in the following information to complete a field registration.								
. Wheelset								
	* AAR Facility Code (C003):	AADC - AMTRAK-ACELA, Washington, DC						
	* Applied Job Code:	3328						
	* Condition Code:	1						
с	omponent Registration Date (C010):							
. Axle								
	* Applied Job Code:	3240	Invalid Axle Job Code					

In Exhibit 75, the Axle Job Code is invalid and needs to be changed.

b. Once a field registration is validated and saved successfully, Component Tracking generates a unique Wheelset component ID (Exhibit 76).

Exhibit 76. Successful Wheelset Field Registration

The Field Reg	The Field Registration was successful. Here is your component ID:8RIC0003491952								
Please fill in the follo	owing information to complete a field	+ Register Another							
1. Wheelset									
	* AAR Facility Code (C003):	AADC - AMTRAK-ACELA, Washington,DC							
	* Applied Job Code:	3328							
	* Condition Code:	1							
	Component Registration Date (C010):								
2. Axle									
	* Applied Job Code:	3274							

- c. In <u>Exhibit 76</u>, the new component ID is provided in the success message at the top. The registered wheelset can now be associated with an Equipment ID as described in <u>Wheelset Association</u>.
- 13. To register another unbarcoded wheelset, select **Register Another**. The page resets for a new registration.

# **Cushioning Units**

1. The Search if Cushunit is Registered page displays.

### Exhibit 77. Search if Cushunit is Registered

Search	Add New	Upload CSV	Field Registration
Search if Cushunit is	Registered		
Note: Enter the Conditi	on and Manufacturer		
Condition Code *			·
Manufacture Month			
Manufacture Year			
Reconditioned Date			
Manufacturer *			·
Serial Number			
Model Number			
			Q Search + Register X Cancel

- 2. Select the Condition Code from the drop-down list:
  - a. New When New is selected, the Manufacture Month and Manufacture Year fields must also be entered.
  - b. **Reconditioned Date** When Reconditioned Date is selected, the Reconditioned Date field must also be entered.
- 3. Select the Manufacturer from the drop-down list.
- 4. Optionally, enter Serial Number and Model Number to refine your search.
- 5. Select Search.
  - a. If a matching component is found (<u>Exhibit 78</u>), no field registration is necessary and the cushioning unit can be associated with the Equipment ID as described in <u>Cushioning Unit</u> <u>Association</u>.

Search	~		opioud c.		riegistration					
Search if Cushun	it is Registe	red								
Note: Enter the Cor	dition and M	anufacturer								
Condition Code *										
1 - New					*					
Manufacture Month										
05										
Manufacture Year										
05										
Reconditioned Date	2									
Manufacturer *										
AHO - AHO					•					
Serial Number										
Model Number										
								O. Count		
								Q Search	TRE	
	Condition		Manufacture	Manufacture	Reconditioned	Model	AAR		Travel	Component
Component ID	Code	Manufacture	Month	Year	Date	Number	Specification	Serial Number	Length	Registration Date

Exhibit 78. Cushioning Unit Field Registration Search With Component Found

b. If no matching component is found (<u>Exhibit 79</u>), select **Register**. The Field Registration Elements page is displayed (<u>Exhibit 80</u>).

Exhibit 79. Cushioning Unit Field Registration Search With No Component Found

Search	Add New	Upload CSV	Field Registration
Search if Cushunit i	is Registered		
Your search	parameters did not match	a Cushunit currently reg	istered in the Umler Component Registry.
Please click	Register to complete a Fie	eld Registration.	
Note: Enter the Condit	tion and Manufacturer		
Condition Code *			
1 - New			Ŧ
Manufacture Month			
05			
Manufacture Year			
21			
Reconditioned Date			
Manufacturer *			
EHI - EHI			<b>v</b>
Serial Number			
Model Number			
			Q Search + Register X Cancel

Search	Add New Upload	CSV Field Registration							
ease fill in the following information to complete a field registration.									
Field Registratio	Field Registration Elements								
	Component Registration Date (C010	):							
	* Condition Code (D201	): 1 - New 👻							
	AAR OEM/Recon Facility Code (D202								
	Manufacture Year (D203	21							
	Manufacture Month (D204	):07							
	Reconditioned Date (D205	):							
	* Manufacturer (D206	): AHO - AHO							
	* Serial Number (D207	):							
	* OEM Model Number (D208	):							
	AAR Specification (D209	):							
	Travel Length (D210	):							
		🖺 Save 🗶 Cancel							

Exhibit 80. Cushioning Unit Field Registration Elements

- 6. Once all mandatory fields have been entered, select **Save**.
  - a. If validation fails, an error message is shown beside the invalid entry (Exhibit 81).

Search	Add New	Lipload (S)	- Field Registration							
Joanen	ndunten	opioud cor								
Please fill in the follow	ase fill in the following information to complete a field registration.									
Transaction fai	Transaction failed due to validation errors, see below for details.									
Field Registration Ele	Field Registration Elements									
	Component Registratio	n Date (C010):								
	* Condition	Code (D201):	1 - New	•						
	AAR OEM/Recon Facility	Code (D202):		·						
	Manufactur	e Year <mark>(D203)</mark> :	21							
	Manufacture N	Nonth (D204):	07							
	Reconditioned	l Date (D205):								
	* Manufa	cturer (D206):	AHO - AHO	•						
	* Serial Nu	umber (D207):			Invalid for Mandatory Elements					
	* OEM Model Nu	umber (D208):	15MC2FT - 15MC2FT	*						
	AAR Specifie	cation (D209):		•						
	Travel L	ength (D210):								
						🖺 Save 🗶 Cancel				

Exhibit 81. Cushioning Unit Field Registration With Errors

In <u>Exhibit 81</u>, a mandatory field needs to be entered.

b. When validation is successful, Component Tracking generates a unique cushioning unit component ID (<u>Exhibit 82</u>).

ease fill in the following information to complete	a field registration.	_	
Component added to the Component Registry 8	RIC0003491953		
			+ Add New 🕼 Edi
Field Registration Elements			
Component Registration Date (	C010):		
* Condition Code (	D201): 1 - New	•	
AAR OEM/Recon Facility Code (	0202):	•	
Manufacture Year (	21		
Manufacture Month (	)204): 05		
Reconditioned Date (	D205):	-	
* Manufacturer (	12345		
* Serial Number (	15MC2FT - 15MC2FT		
* OEM Model Number (	)208): 	-	
AAR Specification (	0210)-		
rraver Length (			

Exhibit 82. Successful Cushioning Unit Field Registration

- c. In <u>Exhibit 82</u>, the new component ID is provided in the success message at the top. The cushioning unit can now be associated with an Equipment ID as described in <u>Cushioning</u> <u>Unit Association</u>.
- 8. To edit the current registration, select **Edit**.
- 9. To add another cushioning unit registration, select Add New. The Search if Cushioning Unit is Registered tab is displayed (Exhibit 77).

## Associate Component

The Associate Component function is used to associate a component registered in Umler with a registered Umler Equipment ID.

### Exhibit 83. Associate Component Menu Item

Component Registry 🗸
Registration
Associate Component 📠
Query

When the user selects **Component Registry > Associate Component** on an Umler page (<u>Exhibit</u> <u>83</u>), the Associate Component tab is displayed, (<u>Exhibit 84</u>).

Exhibit 84. Associate Component to Equipment

Search for Equipment ID		
	Equipment ID	Q Search

# Associate a Component

To associate a component, you must know the **Equipment ID** and **Component ID**s to be associated and the Equipment ID must be registered in Umler. Use the following procedure to associate a component with a piece of equipment:

- 1. Log onto Umler as described in Logging In. The Umler Home page is displayed (Exhibit 8).
- 2. From the Umler menu, select **Component Registry > Associate Component**. The Associate Component tab is displayed (<u>Exhibit 84</u>).
- 3. Enter the **Equipment ID** to be associated, and select **Search**. When the Equipment ID is registered in Umler, details about the equipment ID are found and displayed (<u>Exhibit 85</u>).

### Exhibit 85. Associate Component Search Results

Associate Component	Upload CSV								
Search for Equipment ID									
Note: Use Nullify only to remove	ve an association that	was entered incorre	ectly. Use Associate to asso	ciate a component to a r	piece of equipment.				
		Equipment ID RAIL30085			<b>Q</b> Search				
Equipment Group:	VFLT		Lessee:			Equipment Type Code:		V971	
Mechanical Designation:	FA		Truck Count:	2					
Umler Owner:	RAIL		Axle Count:	4		Stenciled Shipping Spec:			
Select Component for Asso	ciation								
		Component Type		<b>*</b>					
L						<u> </u>	Associate	✓ Nullify	× Cancel

- 4. Select a **Component Type** from the drop-down list to associate:
  - a. Bolster Association
  - b. Coupler Association
  - c. Brake Value Control Emergency Association
  - d. Brake Value Control Service Association
  - e. <u>Side Frame Association</u>
  - f. Slack Adjuster Association
  - g. <u>Wheelset Association</u>
  - h. Pressure Relief Valve Association
  - i. <u>View All</u> (select to view <u>all</u> components already associated with the equipment ID)

# **Bolster Association**

The table at the bottom shows the bolster positions (from the "B" end). The equipment example in <u>Exhibit 86</u> has two positions for component association.

Associate Component Upload CSV											
Search f	or Equipment	ID									
Note: Use	e Nullify only to	remove an asso	ciation that was entered in	correctly. Use Associate to a	associate a compo	onent to a piece of eq	uipment.				
			Equipment ID RAIL30085			Q	Search				
Equipmer	nt Group:	VFLT		Lessee:			Equi	ipment Type Code:	V971		
Mechanic	cal Designation:	FA		Truck Count:	2						
Umler Ov	wner:	RAIL		Axle Count: 4			Stenciled Shipping Spec:				
Compon	ients Associat	ed to the Umle	er Record								
Select	Component Type	Position From B End	AAR Component ID	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Status	
	Bolster	В	Q			Q					
	Bolster	A	Q			Q					
			1					-			
								🖾 Asso	ciate 🗸 Nullify	× Cance	

Exhibit 86. Associate Bolster to Equipment

- 1. Enter the following fields:
  - a. Select the checkbox beside the position where the component has been applied.
  - b. Enter the AAR Component ID. If the component ID is unknown, use the lookup icon (
     Q) to open the Component Search pop-up (Exhibit 87).
    - Enter information in the three required fields and select **Search**.

Note: The system will only return the most recent registration for criteria submitted.
Exhibit 87. Bolster Component Search

	×
Component Search	^
Note: Enter the Cast Date, Manufacturer and (Serial Number or Pattern Number)	
Manufacturer ACCO	
Cast Month/Year 02/22	
MFG Pattern Number 2	
Serial Number	
	Clear Q Search
Component ID Manufacture Cast Month/Year AAR Design Feature MFG Patter	rn Number Serial Number Component Registra
RAIL0000001212         ACCO         2/22         B22         2	2 08/10/2023 14:17

- When the appropriate component is found, select the checkbox in the first column and **Select** to close the tab and return to the Associate Components tab. The selected Component ID is added to the AAR Component ID field.
- **Note:** If no component ID is found, register the component as described in <u>Add New</u> <u>Component</u>, and come back to associate. Recalled components are NOT included in search results.
- c. Enter the Association Date or use the calendar icon to select the date. This is the date that the component was applied, either today or an earlier date, but cannot be in the future.
- d. Enter the mark of the **Performer**. This is the shop mark.
- e. Enter a 9-digit SPLC or use the lookup icon to search for a SPLC. This is the location where the application was performed (e.g., shop SPLC).
- f. Enter additional components to the rows below as appropriate.
- 2. Once you have entered all the appropriate fields and checked the boxes for the components to associate, select **Associate**.
  - a. <u>If a component ID has been identified in a recall</u>, a confirmation pop-up message is displayed (<u>Exhibit 88</u>). The Component Details field provides the error or warning.

Select **Cancel** to change to a different component. Otherwise, select **OK** to install the recalled component.

#### Exhibit 88. Bolster Recall Warning

			Componen	t Type								
Compo	nents Associa	ted to the Umle	er Record	Co The wa	Onfirmation ere are warnings with th Irnings, press OK. Press	his co Cano	omponent assoc cel to view and fi	ations. To proceed ass x the warnings.	sociation with			
Select	Component Type	Position From B End	AAR Component ID		Association Date		Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Statu
		D				-	PAU	411657000 C	RAIL	View Details		
	Bolster	b	RAIL0000001212	<u>_</u>	09/26/2023	•		-	2			

b. <u>If the component has no warnings</u>, the Associate Component tab is redisplayed with a success message (<u>Exhibit 89</u>). The **Reporter** field is populated. The **View Details** link opens a pop-up that shows the Component Details for the row selected (see example in <u>Exhibit 104</u>). Select **OK** to close it.

Exhibit 89. Successful Bolster Association

earch f	or Equipment	ID									
0	Component(s) a	ssociation requ	est is accepted successfully.								
ote: Usr	Nullify only to	remove an asso	ciation that was entered inc	correctly. Use Associat	te to a	issociate a compo	nent to a piece of eq	uipment.			
			Equipment ID					Count			
			KAIL30085					Search			
quipme	nt Group:	VFLT		Lessee:				Equip	ment Type Code:	V971	
echani	cal Designation:	FA		Truck Count:		2					
mler O	wner:	RAIL		Axle Count:		4		Stend	iled Shipping Spec:		
			BOLSTER				*				
ompor	ents Associat	ed to the Umle	er Record								
	Component	Position									
Select	Туре	From B End	AAR Component ID	Association Date		Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Statu
	Bolster	В	RAIL000001212 Q	09/26/2023	۲	RAIL	411657000 Q	RAIL	View Details		
		٨					0				
	Bolster	A	Q		•		Q				

- c. <u>If the component was associated incorrectly</u>, (e.g., wrong Equipment ID, or wrong position on equipment), the association can be nullified. See <u>Nullify an Association</u>.
- 3. Select **Cancel** to return to the Associate Component tab, or select another menu item.

# **Coupler Association**

The table at the bottom shows the coupler positions (B and A). In <u>Exhibit 90</u>, the equipment ID has two positions for component association. The B end has been entered, but not yet associated.

Exhibit §	90. /	Associate	Coupler to	Equipment
		10000/410	ooupici to	Equipment

Associa	te Component	Uploa	d CSV										
Search f	or Equipment	ID											
Note: Use	Nullify only to	remove an asso	ciation that was entere	ed in	correctly. Use Associate	to a	issociate a compo	onent to a piece of e	qui	ipment.			
			Equipment RAIL70	id 94				•	S	earch			
Equipme	nt Group:	GON	)		Lessee:					Equi	oment Type Code:	E544	
Mechani	cal Designation:	GBSR			Truck Count:		2						
Umler Ov	wner:	RAIL			Axle Count:		4			Sten	ciled Shipping Spec:		
Compor	ients Associat	ed to the Uml	er Record										
Select	Component Type	Position From B End	AAR Component ID		Association Date		Performer	SPLC		Reporter	Component Details	Equipment ID in Conflict	Status
	Coupler	В	RAIL3004	Q	09/26/2023	Ē	RAIL	411657000 <b>C</b>	2				
	Coupler	A		Q		۲		C	2				
											S Assoc	ciate Vullify	× Cancel

- 1. Enter the following fields:
  - a. Select the checkbox beside the position where the component has been applied.
  - b. Enter the AAR Component ID. If the component ID is unknown, use the lookup icon (
     Q) to open the Component Search pop-up (Exhibit 91).
    - Enter information in the three required fields and select Search.

**Note:** The system will only return the most recent registration for criteria submitted.

Exhibit 91. Coupler Component Search

					×
Component Search					^
	Cast Month/Year * 01/01				
	Catalog Number * 1				
	Serial Number				
	Cavity Number				
					Clear Q Search
Component ID Manufacturer	Reconditioner	Cast Month/Year	Catalog Number	Serial Number	Component Registration Date
RAIL000003005 FAT	AMIS	01/01	1		08/22/2023 08:32
<					>
					✓ Select X Close

- When the appropriate component is found, select the checkbox in the first column and **Select** to close the tab and return to the Associate Component tab. The selected Component ID is added to the AAR Component ID field.
- **Note:** If no component ID is found, register the component as described in <u>Add New</u> <u>Component</u>, and come back to associate. Recalled components are NOT included in search results.
- c. Enter the Association Date or use the calendar icon to select the date. This is the date that the component was applied, either today or an earlier date, but cannot be in the future.
- d. Enter the mark of the **Performer**. This is the shop mark.
- e. Enter a 9-digit SPLC or use the lookup icon to search for a SPLC. This is the location where the application was performed (e.g., shop SPLC).
- f. Enter additional components to the rows below as appropriate.
- 6. Once you have entered all the appropriate fields and checked the boxes for the components to associate, select **Associate**.
  - a. <u>If a component ID has been identified in a recall</u>, a confirmation pop-up message is displayed (see example in <u>Exhibit 88</u>). The Component Details field provides the error or warning.

Select **Cancel** to change to a different component. Otherwise, select **OK** to install the recalled component.

b. <u>If the component has no warnings</u>, the Associate Component tab is redisplayed with a success message (<u>Exhibit 92</u>). The **Reporter** field is populated. The **View Details** link opens a pop-up that shows the Component Details for the row selected (see example in <u>Exhibit 104</u>). Select **OK** to close it.

Exhibit 92. Successful Coupler Association

	te Component	Upioa	d CSV								
Search 1	for Equipment I	D									
0	Component(s) as	sociation requ	est is accepted successful	ly.							×
Note: Use	e Nullify only to	emove an asso	ciation that was entered i	ncorrectly. Use Associa	ate to a	associate a comp	onent to a piece of eq	uipment.			
			Equipment ID RAIL7094				Q	Search			
Equipme	nt Group:	GONE	)	Lessee:				Equi	pment Type Code:	E544	
Mechanio	cal Designation:	GBSR		Truck Count:		2					
Umler Ov	wner:	RAIL		Axle Count:		4		Sten	ciled Shipping Spec:		
			COUPLER				-				
Compon	nents Associate	ed to the Umle	er Record								
Compor	nents Associate	ed to the Umle	er Record								
Compor Select	nents Associate Component Type	ed to the Umle Position From B End	er Record AAR Component ID	Association Date		Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Status
Select	Component Type Coupler	Position From B End B	AAR Component ID RAIL000003004 C	Association Date	Ē	Performer	SPLC 411657000 Q	Reporter RAIL	Component Details View Details	Equipment ID in Conflict	Status
Select	Component Type Coupler Coupler	Position From B End B	AAR Component ID RAIL000003004 C	Association Date     09/26/2023	Ē	Performer RAIL	SPLC 411657000 Q	Reporter	Component Details View Details	Equipment ID in Conflict	Status
Select	Component Type Coupler Coupler	Position From B End B	AAR Component ID RAIL000003004 C	Association Date     09/26/2023	Ē	Performer RAIL	SPLC 411657000 Q	Reporter RAIL	Component Details View Details	Equipment ID in Conflict	Status

- c. <u>If the component was associated incorrectly</u>, (e.g., wrong Equipment ID, or wrong position on equipment), the association can be nullified. See <u>Nullify an Association</u>.
- 3. Select **Cancel** to return to the Associate Component tab, or select another menu item.

# **Brake Value Control Emergency Association**

The table at the bottom shows the Emergency Valve position (from the "B" end). The equipment example in Exhibit 93 has one position for component association.

arch for Equipmen	t ID									
ote: Use Nullify only t	o remove an asso	ciation that was en	tered in	correctly. Use Associate t	o associate a cor	nponent to a piece of eq	uipment.			
		Equipm RAIL	ent ID 30085			Q	Search			
juipment Group:	VFLT			Lessee:			Equi	pment Type Code:	V971	
echanical Designation	: FA			Truck Count:	2					
nler Owner:	RAIL			Axle Count:	4		Sten	ciled Shipping Spec:		
		Compor	ent Type	E CONTROL EMERGENC		÷				
Imponents Associa	ited to the Uml	Compos BRA	vent Type	E CONTROL EMERGENCY		•				
omponents Associa Component elect Type	ted to the Uml Position From B End	er Record	Nent Type KE VALV	E CONTROL EMERGENCY	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Sta

Exhibit 93. Associate Brake Valve Control Emergency to Equipment

- 1. Enter the following fields:
  - a. Select the checkbox beside the position where the component has been applied.
  - b. Enter the AAR Component ID. If the component ID is unknown, use the lookup icon (
     Q) to open the Component Search pop-up (Exhibit 94).
    - Enter information in the three required fields and select Search.

Note: The system can only return the most recent registration for criteria submitted.

#### Exhibit 94. Brake Valve Control Emergency Component Search

			×
Component Search			^
Facility Code, Part Number and Va	lve Type are required		
	Reconditioner Facility Code *		
	Date Valve Tested	Ť.	
	Serial Number		
	Part Number *		
	Valve Type *	•	
			Clear Q Search
			✓ Select 🗶 Close

• When the appropriate component is found, select the checkbox in the first column and **Select** to close the tab and return to the Associate Components tab. The selected Component ID is added to the AAR Component ID field.

Note:	If no component ID is found, register the component as described in <u>Add New</u>
	Component, and return to associate. Recalled components are NOT included in
	in search results.

- c. Enter the Association Date or use the calendar icon to select the date. This is the date that the component was applied, either today or an earlier date, but cannot be in the future.
- d. Enter the mark of the **Performer**. This is the shop mark.
- e. Enter a 9-digit SPLC or use the lookup icon to search for a SPLC. This is the location where the application was performed (e.g., shop SPLC).
- f. Enter additional components to the rows below as appropriate. When an entry is complete, the Associate button becomes available.
- 2. Once you have entered all the appropriate fields and checked the boxes for the components to associate, select **Associate**.
  - a. <u>If the component ID has been identified in a recall</u>, a confirmation pop-up is displayed (see example in <u>Exhibit 88</u>). The Component Details field provides the error or warning.
  - b. <u>If the component has no warnings</u>, the Associate Component tab is redisplayed with a success message. The **Reporter** field is populated. The **View Details** link opens a pop-up that shows the Component Details for the row selected (see example in <u>Exhibit 104</u>). Select **OK** to close it.
  - c. <u>If the component was associated incorrectly</u>, (e.g., wrong Equipment ID, or wrong position on equipment), the association can be nullified. See <u>Nullify an Association</u>.
- 3. Select **Cancel** to return to the Associate Component tab or select another menu item.

## **Brake Value Control Service Association**

The table at the bottom shows the Service Valve position (from the "B" end). The equipment example in Exhibit 95 has one position for component association.

	te Component	Uploa	d CSV							
Search	for Equipment I	D								
Note: Us	e Nullify only to r	emove an asso	ciation that was entered in	correctly. Use Associate to a	issociate a compo	ment to a piece of e	quipment.			
			Equipment ID RAIL30085			•	Search			
Equipme	nt Group:	VFLT		Lessee:			Equip	oment Type Code:	V971	
Mechan	cal Designation:	FA		Truck Count:	2					
Umler O	wner:	RAIL		Axle Count:	4		Stend	ciled Shipping Spec:		
			BRAKE VALV	E CONTROL SERVICE		· ·				
Compo	nents Associate	d to the Umle	er Record							
Compo Select	nents Associate Component Type	ed to the Umk Position From B End	er Record	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Statu
Compo Select	Component Type Brake Valve Control Service	ed to the Umle Position From B End	er Record AAR Component ID Q	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Status
Compo Select	Component Type Brake Valve Control Service	Position From B End	er Record AAR Component ID	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Status

Exhibit 95. Associate Brake Valve Control Service to Equipment

- 1. Enter the following fields:
  - a. Select the checkbox beside the position *where the component has been applied*.
  - b. Enter the **AAR Component ID**. If the component ID is unknown, use the lookup icon (Q) to open the Component Search pop-up (see example in Exhibit 94).
    - Enter information in the three required fields and select Search.

Note: The system can only return the most recent registration for criteria submitted.

#### Exhibit 96. Brake Valve Control Service Component Search

			×
Component Search			^
Facility Code, Part Number and V	Valve Type are required		
	Reconditioner Facility Code *		
	Date Valve Tested	Ē	
	Serial Number		
	Part Number *		
	Valve Type *	•	
			Clear Q Search
			Select Close

• When the appropriate component is found, select the checkbox in the first column and **Select** to close the tab and return to the Associate Components tab. The selected Component ID is added to the AAR Component ID field.

Note:	If no component ID is found, register the component as described in Add New
	Component, and come back to associate. Recalled components are NOT included in
	search results.

- b. Enter the Association Date or use the calendar icon to select the date. This is the date that the component was applied, either today or an earlier date, but cannot be in the future.
- c. Enter the mark of the **Performer**. This is the shop mark.
- d. Enter a 9-digit SPLC or use the lookup icon to search for a SPLC. This is the location where the application was performed (e.g., shop SPLC).
- e. Enter additional components to the rows below as appropriate.
- 2. Once you have entered all the appropriate fields and checked the boxes for the components to associate, select **Associate**.
  - a. <u>If a component ID has been identified in a recall</u>, a confirmation pop-up message is displayed (see example in <u>Exhibit 88</u>). The Component Details field provides the error or warning.

Select **Cancel** to change to a different component. Otherwise, select **OK** to install the recalled component.

- c. <u>If the component has no warnings</u>, the Associate Component tab is redisplayed with a success message. The **Reporter** field is populated. The **View Details** link opens a pop-up that shows the Component Details for the row selected (see example in <u>Exhibit 104</u>). Select **OK** to close it.
- c. <u>If the component was associated incorrectly</u>, (e.g., wrong Equipment ID, or wrong position on equipment), the association can be nullified. See <u>Nullify an Association</u>.

3. Select **Cancel** to return to the Associate Component tab or select another menu item.

## **Sideframe Association**

The table at the bottom shows the sideframe positions (from the "B" end). The equipment example in Exhibit 97 has four positions for component association.

Exhibit 97. Associate Sideframe to Equipment

	ate Component	Uploa	d CSV							
Search	for Equipment	ID								
Note: Us	e Nullify only to	remove an asso	ciation that was entered in	correctly. Use Associate to a	associate a compo	onent to a piece of eq	uipment.			
			Equipment ID RAIL30085			Q	Search			
Equipme	ent Group:	VFLT		Lessee:			Equ	ipment Type Code:	V971	
Mechan	ical Designation:	FA		Truck Count:	2					
Umler O	wner:	RAIL		Axle Count:	4		Ster	nciled Shipping Spec:		
Select (	Component for	Association								
Compo	nents Associat	ed to the Uml	Component Type SIDE FRAME			•				
Select	Component Type	Position From B End	AAR Component ID	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Status
Select	Component Type Side Frame	Position From B End BL	AAR Component ID	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Status
Select	Component Type Side Frame Side Frame	Position From B End BL BR	AAR Component ID	Association Date ව ව	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Status
	Component Type Side Frame Side Frame Side Frame	Position From B End BL BR AL	AAR Component ID Q Q Q Q	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Status
	Component Type           Side Frame           Side Frame           Side Frame           Side Frame           Side Frame	Position From B End BL BR AL AR	AAR Component IDQQQQQ	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Status

- 1. Enter the following fields:
  - a. Select the checkbox beside the position where the component has been applied.
  - b. Enter the AAR Component ID. If the component ID is unknown, use the lookup icon (
     Q) to open the Component Search pop-up (see example in Exhibit 87).
    - Enter information in the three required fields and select **Search**.

Note: The system will only return the most recent registration for criteria submitted.

• When the appropriate component is found, select the checkbox in the first column and **Select** to close the tab and return to the Associate Components tab. The selected Component ID is added to the AAR Component ID field.

- **Note:** If no component ID is found, register the component as described in <u>Add New</u> <u>Component</u>, and come back to associate. Recalled components are NOT included in search results.
- c. Enter the **Association Date** or use the calendar icon to select the date. This is the date that the component was applied, either today or an earlier date, but cannot be in the future.
- d. Enter the mark of the **Performer**. This is the shop mark.
- e. Enter a 9-digit SPLC or use the lookup icon to search for a SPLC. This is the location where the application was performed (e.g., shop SPLC).
- f. Enter additional components to the rows below as appropriate.
- 2. Once you have entered all the appropriate fields and checked the boxes for the components to associate, select **Associate**.
  - a. <u>If a component ID has been identified in a recall</u>, a confirmation pop-up message is displayed (see example in <u>Exhibit 88</u>). The Component Details field provides the error or warning.

Select **Cancel** to change to a different component. Otherwise, select **OK** to install the recalled component.

b. <u>If the component has no warnings</u>, the Associate Component tab is redisplayed with a success message (<u>Exhibit 98</u>). The **Reporter** field is populated. The **View Details** link opens a pop-up that shows the Component Details for the row selected (see example in <u>Exhibit 104</u>). Select **OK** to close it.

Search 1	for Equipment	ID								
0	Component(s) a	association requ	est is accepted successfully							
Note: Us	e Nullify only to	remove an asso	ciation that was entered in	correctly. Use Associate t	associate a compo	onent to a piece of eq	uipment.			
			Equipment ID RAIL30085			٩	Search			
quipme	nt Group:	VFLT		Lessee:			Equip	ment Type Code:	V971	
<b>/</b> lechani	cal Designation:	FA		Truck Count:	2					
Jmler O	wner:	RAIL		Axle Count:	4		Stend	iled Shipping Spec:		
elect C	component for	Association								
			Component Type			_				
			Component Type SIDE FRAME	:		•				
			Component Type SIDE FRAME	5		*				
Compor	nents Associat	ed to the Umle	Component Type SIDE FRAME	:		• •				
Compor	nents Associat Component	ed to the Umle Position	Component Type SIDE FRAME			•				
Compor	component Type	Position From B End	Component Type SIDE FRAME er Record AAR Component ID	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	State
Compor Select	Component Type Side Frame	Position From B End BL	er Record AAR Component ID RAIL0000001120	Association Date 09/26/2023 {	Performer RAIL	<b>SPLC</b> 411657000 Q	Reporter RAIL	Component Details View Details	Equipment ID in Conflict	State
Compor Select	Component Type Side Frame Side Frame	ed to the Umle Position From B End BL BR	er Record AAR Component ID RAIL0000001120	Association Date	Performer RAIL	<b>SPLC</b>	Reporter RAIL	Component Details View Details	Equipment ID in Conflict	State
Compor Select	Component Type Side Frame Side Frame	ed to the Umia Position From B End BL BR	AAR Component ID RAIL000001120	Association Date 09/26/2023 (	Performer RAIL	<b>SPLC</b> 411657000 Q	Reporter RAIL	Component Details View Details	Equipment ID in Conflict	Stat
Select	Component Type Side Frame Side Frame Side Frame	Position From B End BL BR AL	AAR Component ID RAIL000001120 Q Q Q	Association Date	Performer RAIL	SPLC 411657000 Q Q Q	Reporter RAIL	Component Details View Details	Equipment ID in Conflict	State
Select	Component Type Side Frame Side Frame Side Frame	Position From B End BL BR AL	AAR Component ID AAR Component ID AAR Component ID AAR Component I AAR COMPONE	Association Date	Performer       All       RAIL       All	<b>SPLC</b> 411657000 Q Q Q Q Q	Reporter RAIL	Component Details View Details	Equipment ID in Conflict	State
Select	Component Type Side Frame Side Frame Side Frame Side Frame	ed to the Umle Position From B End BL BR AL AR	Composent Type SIDE FRAME or Record AAR Component ID RAIL0000001120 Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	Association Date 09/26/2023	Performer RAIL	SPLC 411657000 Q Q Q Q Q Q	Reporter RAIL	Component Details View Details	Equipment ID in Conflict	State
ompor	Component Type Side Frame Side Frame Side Frame Side Frame	Position From B End BL BR AL AR	Component Type SIDE FRAME  AAR Component ID  RAIL0000001120 Q  Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	Association Date 09/26/2023	Performer RAIL RAIL	SPLC 411657000 Q Q Q Q Q Q Q	Reporter RAIL	Component Details View Details	Equipment ID in Conflict           Image: Conflict ID in Conflict           Image: Conflict ID in Conflict ID in Conflict           Image: Conflict ID in Confli	Stat

#### Exhibit 98. Successful Sideframe Association

- c. <u>If the component was associated incorrectly</u>, (e.g., wrong Equipment ID, or wrong position on equipment), the association can be nullified. See <u>Nullify an Association</u>.
- 3. Select **Cancel** to return to the Associate Component tab or select another menu item.

## **Slack Adjuster Association**

The table at the bottom shows the slack adjuster positions (from the "B" end). The equipment example in Exhibit 99, has eight positions for component association.

Exhibit 99. Associate Slack Adjuster to Equipment

earch 1	for Equipment ID									
ote: Us	e Nullify only to remov	ve an association the	at was entered incorrectly.	Use Associate to associate a	a component to a	a piece of equipment.				
			Equipment ID RAIL30085				Q Search			
quipme	nt Group:	VFLT		Lessee:				Equipment Type Code:	V971	
Mechani	cal Designation:	FA		Truck Count:		2				
Jmler O	wner:	RAIL		Axle Count:		4		Stenciled Shipping Spec:		
			Component Type SLACK ADJU	STER		-	-			
Compor	nents Associated to	the Umler Record	Component Type SLACK ADJU	Association Data	Performer	SPIC	Panastar	Composed Data Ve	Equipment (D is Couffet	Stat
Compor Select	Component Type Slack Adjuster	the Umler Record Position From B End	Component Type SLACK ADJU: AAR Component ID	STER Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Stat
Select	Component Type Slack Adjuster Slack Adjuster	the Umler Record Position From B End 1	AAR Component ID	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Stat
Select	Component Type Slack Adjuster Slack Adjuster Slack Adjuster	the Umler Record Position From 8 End 2 2	AAR Component ID	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Stat

- 1. Enter the following fields:
  - a. Select the checkbox beside the position where the component has been applied.
  - b. Enter the AAR Component ID. If the component ID is unknown, use the lookup icon (Q) to open the Component Search pop-up (see example in Exhibit 87).
    - Enter information in the three required fields and select **Search**.

Note: The system will only return the most recent registration for criteria submitted.

• When the appropriate component is found, select the checkbox in the first column and **Select** to close the tab and return to the Associate Components tab. The selected Component ID is added to the AAR Component ID field.

**Note:** If no component ID is found, register the component as described in <u>Add New</u> <u>Component</u>, and come back to associate. Recalled components are NOT included in search results.

c. Enter the Association Date or use the calendar icon to select the date. This is the date that the component was applied, either today or an earlier date, but cannot be in the future.

- d. Enter the mark of the **Performer**. This is the shop mark.
- e. Enter a 9-digit SPLC or use the lookup icon to search for a SPLC. This is the location where the application was performed (e.g., shop SPLC).
- f. Enter additional components to the rows below as appropriate.
- 2. Once you have entered all the appropriate fields and checked the boxes for the components to associate, select **Associate**.
  - a. <u>If a component ID has been identified in a recall</u>, a confirmation pop-up message is displayed (see example in <u>Exhibit 88</u>). The Component Details field provides the error or warning.

Select **Cancel** to change to a different component. Otherwise, select **OK** to install the recalled component.

b. <u>If the component has no warnings</u>, the Associate Component tab is redisplayed with a success message (<u>Exhibit 100</u>). The **Reporter** field is populated. The **View Details** link opens a pop-up that shows the Component Details for the row selected (see example in <u>Exhibit 104</u>). Select **OK** to close it.

Exhibit 100. Successful Slack Adjuster Association

Associa	e Component	Upload CSV											
Search f	or Equipment ID												
0	Component(s) associa	ation request is acco	epted successfully.										×
Note: Use	Nullify only to remo	ve an association th	at was entered incorre	ctly. U	se Associate to associ	ate a	a component to a	a piece of equip	nent.				
			Equipment II RAIL300	D )85						Q Search			
Equipmer	it Group:	VFLT			Lessee:						Equipment Type Code:	V971	
Mechanic	al Designation:	FA			Truck Count:			2					
Umler Ov	vner:	RAIL			Axle Count:			4			Stenciled Shipping Spec:		
Compon	ents Associated to	the Umler Recor	Component SLACK #	Type ADJUST	rer					-			
Select	Component Type	Position From B End	AAR Component ID	,	Association Date		Performer	SPLC		Reporter	Component Details	Equipment ID in Conflict	Status
	Slack Adjuster	1	8RIC0003491770	Q	09/26/2023	۲	RAIL	411657000	Q	RAIL	View Details		
	Slack Adjuster	2		Q				_	Q				
	Slack Adjuster	3		Q		۲			Q				
	Slack Adjuster Slack Adjuster	3		Q Q		Ē		-	Q Q				
	Slack Adjuster Slack Adjuster Slack Adjuster	3 4 5		Q Q		Ē		-	Q Q				

- c. <u>If the component was associated incorrectly</u>, (e.g., wrong Equipment ID, or wrong position on equipment), the association can be nullified. See Nullify an Association.
- 3. Select **Cancel** to return to the Associate Component tab or select another menu item.

## Wheelset Association

The table at the bottom shows the wheelset positions (from the "B" end). The equipment example in Exhibit 101 has four positions for component association.

Associate Component	Upload CSV							
earch for Equipment ID								
ote: Use Nullify only to rem	ove an association th	at was entered incorrectly.	Use Associate to associate	a component to a	piece of equipment.			
		Equipment ID RAIL30085				Q Search		
uipment Group:	VFLT		Lessee:				Equipment Type Code:	V971
echanical Designation:	FA		Truck Count:		2			
mler Owner:	RAIL		Axle Count:		4		Stenciled Shipping Spec:	
		Component Type WHEELSET						
omponents Associated	to the Umler Record	Component Type WHEELSET						
omponents Associated	o the Umler Record	Component Type WHEELSET	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict
elect Component Typ Wheelset	Position From B End	AAR Component ID	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict
elect Component Typ Wheelset Wheelset	to the Umler Record Position From B End 1 2	AAR Component ID	Association Date	Performer	SPLC Q	Reporter	Component Details	Equipment ID in Conflict
elect Component Typ C Wheelset C Wheelset C Wheelset C Wheelset	Position From B Position From B 1 2 3	AAR Component ID	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict

- 1. Enter the following fields:
  - a. Select the checkbox beside the position where the component has been applied.
  - b. Enter the AAR Component ID. If the component ID is unknown, use the lookup icon (
     Q) to open the Component Search pop-up (Exhibit 102).
    - For the search, Wheel Serial Number and Wheel Stamped Manufacturer Code are required fields and optionally, enter any of the other criteria (Wheel Stamped Month/Stamped Year, Wheel Nominal Diameter, Wheel Design Code. Then select Search.

× Cancel

Exhibit 102. Wheelsets Component Search

							×
Comp	onent Search						^
		Wheel Serial Number * P140022					
		Wheel Stamped Manufacturer Code * P					
		Wheel Stamped Month/Stamped Year					
		Wheel Nominal Diameter					
		Wheel Design Code					
						Ø Cle	ear <b>Q</b> Search
Select	Component AAR Facility Code	Component Assembly Date/Time	Wheel	Stamped MMYY	Mfg Code	Class	Serial #
	AADC - AMTRAK-ACELA, Washington, DC		1	0822	Ρ	В	P140022
				0822	P	В	
						~	Select X Close

- When the appropriate component is found, select the checkbox in the first column and **Select** to close the tab and return to the Associate Components tab. The selected Component ID is added to the AAR Component ID field.
- **Note:** If no component ID is found, register a barcoded component as described in <u>Add</u> <u>New Component</u>, or for a nonbarcoded component, add the component as described in <u>Field Registration</u>. Recalled components are NOT included in the search results.
- c. Enter the Association Date or use the calendar icon to select the date. This is the date that the component was applied, either today or an earlier date, but cannot be in the future.
- d. Enter the mark of the **Performer**. This is the shop mark.
- e. Enter a 9-digit SPLC or use the lookup icon to search for a SPLC. This is the location where the application was performed (e.g., shop SPLC).
- f. Enter additional components to the rows below as appropriate.
- 2. Once you have entered all the appropriate fields and checked the boxes for the components to associate, select **Associate**.
  - a. <u>If a component ID has been identified in a recall</u>, a confirmation pop-up message is displayed (see example in <u>Exhibit 88</u>). The Component Details field provides the error or warning.

Select **Cancel** to change to a different component. Otherwise, select **OK** to install the recalled component.

b. <u>If the component has no warnings</u>, the Associate Component tab is redisplayed with a success message (<u>Exhibit 103</u>). The **Reporter** field is populated.

Exhibit 103. Successful Wheelset Association

	e Component	upload CSV											
Search f	or Equipment ID												
0	Component(s) associa	ation request is acce	epted successfully.										×
Note: Use	Nullify only to remo	ve an association th	at was entered incorrect	tly. Us:	se Associate to associa	ate a	component to a	piece of equipme	ent.				
			Equipment ID RAIL3008	85						<b>Q</b> Search	3		
Equipmer	t Group:	VFLT			Lessee:						Equipment Type Code:	V971	
Mechanic	al Designation:	FA			Truck Count:			2					
Umler Ov	vner:	RAIL			Axle Count:			4			Stenciled Shipping Spec:		
Select C	omponent for Asso	ociation											
			Component Ty WHEELSE	ype ET					-				
			Component Ty WHEELSE	iype ET					*	_			
			Component Ty WHEELSE	ype ET					~	_			
Compon	ents Associated to	the Umler Record	Component Ty WHEELSE	iype ET					•	_			
Compon	ents Associated to	the Umler Record	Component Ty WHEELSE	iype ET					•				
Compon	ents Associated to	the Umler Record Position From B End	Component Ty WHEELSE	ýpe ET	Association Date		Performer	SPLC	•	Reporter	Component Details	Equipment ID in Conflict	Status
Compon Select	Component Type Wheelset	the Umler Record Position From B End	AAR Component ID 8RIC0003491952	Q	Association Date	Ē	<b>Performer</b> RAIL	<b>SPLC</b>	ų Q	Reporter RAIL	Component Details View Details	Equipment ID in Conflict	Status
Compon Select	Component Type Wheelset Wheelset	the Umler Record Position From B End 1	AAR Component ID 8RIC0003491952	ype     ET     Q     Q     -     Q     -	Association Date 09/26/2023	Ē	Performer	<b>SPLC</b>	• م م	Reporter RAIL	Component Details View Details	Equipment ID in Conflict	Status
Select	ents Associated to Component Type Wheelset Wheelset Wheelset	the Umler Record Position From B End 1 2 3	AAR Component ID 8RIC0003491952	Q - Q - Q -	Association Date 09/26/2023	•	Performer RAIL	SPLC 411657000		Reporter RAIL	Component Details View Details	Equipment ID in Conflict	Status
Select	Component Type Wheelset Wheelset Wheelset Wheelset	the Umler Record Position From B End 1 2 2 3 4	AAR Component ID 8RIC0003491952		Association Date 09/26/2023		Performer RAIL	SPLC 411657000		Reporter RAIL	Component Details View Details	Equipment ID in Conflict	Status
Select	Component Type Wheelset Wheelset Wheelset	the Umler Record Position From B End 1 2 3 4	AAR Component ID BRIC0003491952		Association Date		Performer RAIL	SPLC 411657000	• م م م	Reporter RAIL	Component Details View Details	Equipment ID in Conflict	Status

The **View Details** link opens a pop-up that shows the Component Details for the row selected (<u>Exhibit 104</u>). Select **OK** to close it.

#### Exhibit 104. View Component Details

lew 28 inch wheel Wheel, Class Jew 6.0 X 11.0 Bearing AARX00	B, Curved Pla	ite, 1-W; Natural Fitted Back	ing Ring: New Ayle		
ew c.o x n.o bearing, Arrotoo	Wheel 1	Wheel 2		Bearing 1	Bearing 2
Manufactured Date			Manufacture Date		
Stamped Month/Stamped Year	8/22	8/22	Cup Stamped Month/Cup	/	/
Stamped Serial Number	P140022		Stamped Year		
Heat/Melt			Cup Serial Number		
Rim Thickness Side Scale	28	28	Certificate Number	1	1
Reading			Seal Type		
Finger Gauge Reading	11	11	Grease Type		
Tape Size			Cage Type		
	۹ <u>ـــــ</u>				
			Axle		
	AAR Cond	lition Code	Axle 1		
	AAR Cond Manufact	lition Code ure Date	Axle 1		
	AAR Conc Manufact Serial Nur	lition Code ure Date mber And Heat ID	Axle 1		
	AAR Cond Manufact Serial Nur AAR Type	lition Code ure Date mber And Heat ID	Axle 1 RWS		
	AAR Cond Manufact Serial Nur AAR Type Grade	lition Code ure Date mber And Heat ID	Axle 1 RWS		
	AAR Cond Manufactu Serial Nur AAR Type Grade Body Desi	lition Code ure Date mber And Heat ID	Axle 1 RWS E		
	AAR Cond Manufact Serial Nur AAR Type Grade Body Desi Int Extend	lition Code ure Date mber And Heat ID	Axle 1 RWS E		
	AAR Cond Manufact Serial Nur AAR Type Grade Body Desi Int Extend Body Desi	lition Code ure Date mber And Heat ID gn led Axle Codes gn	Axle 1 RWS E E		
	AAR Cond Manufactu Serial Nuu AAR Type Grade Body Desi Int Extend Body Desi Axle Dust	lition Code ure Date mber And Heat ID gn led Axle Codes gn Guard Size	Axle 1 RWS E E		

- c. <u>If the component was associated incorrectly</u>, (e.g., wrong Equipment ID, or wrong position on equipment), the association can be nullified. See <u>Nullify an Association</u>.
- 3. Select Cancel to return to the Associate Component tab or select another menu item

### **Pressure Relief Valve Association**

The table at the bottom shows the pressure relief valve positions (from the "B" end). The equipment example in <u>Exhibit 105</u> has six positions for component association.

Exhibit 105. Associate Pressure Relief Valve to Equipment

ASSOCIA	te component									
Search f	for Equipment ID									
Note: Use	e Nullify only to remo	ve an association th	at was entered incorrectly.	Use Associate to associate a	a component to a	piece of equipment.				
			Equipment ID RAIL13710				Q Search			
Equipmer	nt Group:	TANK		Lessee:				Equipment Type Code:	T055	
Mechanic	cal Designation:	Т		Truck Count:		2				
Umler Ov	wner:	RAIL		Axle Count:		4		Stenciled Shipping Spec:	111A100W5	
Select C	omponent for Asso	ociation								
			Component Type							
			Component Type PRESSURE R	ELIEF VALVE			-			
			Component Type PRESSURE RI	ELIEF VALVE			-			
Compon	ents Associated to	the Umler Record	Component Type PRESSURE RI	ELIEF VALVE			-			
Compon	ents Associated to	o the Umler Record Position From B End	Component Type PRESSURE RI 	ELIEF VALVE	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Status
Compon Select	Component Type Pressure Relief Valve	Position From B End B	AAR Component ID	LIEF VALVE Association Date	Performer	SPLC Q	Reporter	Component Details	Equipment ID in Conflict	Status
Compon Select	Component Type Pressure Relief Valve	Position From B End C	AAR Component ID	Association Date	Performer	SPLC Q	Reporter	Component Details	Equipment ID in Conflict	Status
Compon Select	Component Type Pressure Relief Valve Pressure Relief Valve Pressure Relief Valve Valve Valve Pressure Relief Valve Pressure Relief	the Umler Record Position From B End B C D	AAR Component ID	Association Date	Performer	SPLC Q	Reporter	Component Details	Equipment ID in Conflict	Status
Compon Select	Component Type Pressure Relief Valve	the Umler Record Position From B End B C C	AAR Component ID	Association Date	Performer	SPLC Q	Reporter	Component Details	Equipment ID in Conflict	Status
Select	Component Type Pressure Relief Valve	betwee Umler Record Position From B End B C C D E E	AAR Component ID	LIEF VALVE	Performer	SPLC Q Q	Reporter	Component Details	Equipment ID in Conflict	Status

- 1. Enter the following fields:
  - a. Select the checkbox beside the position where the component has been applied.
  - b. Enter the **AAR Component ID**. If the component ID is unknown, use lookup icon (Q) to open the Component Search pop-up (Exhibit 106).
    - Enter information in the three required fields and select **Search**.

Note: The system will only return the most recent registration for criteria submitted.

Exhibit 106. Pressure Relief Valve Component Search

Clear Q Search

• When the appropriate component is found, select the checkbox in the first column and **Select** to close the tab and return to the Associate Components tab. The selected Component ID is added to the AAR Component ID field.

Note:	If no component ID is found, register the component as described in <u>Add New</u>
	Component, and come back to associate. Recalled components are NOT included
	in search results.

- b. Enter the Association Date or use the calendar icon to select the date. This is the date that the component was applied, either today or an earlier date, but cannot be in the future.
- c. Enter the mark of the **Performer**. This is the shop mark.
- d. Enter a 9-digit SPLC or use the lookup icon to search for a SPLC. This is the location where the application was performed (e.g., shop SPLC).
- e. Enter additional components to the rows below as appropriate.
- 2. Once you have entered all the appropriate fields and checked the boxes for the components to associate, select **Associate**.
  - a. <u>If a component ID has been identified in a recall</u>, a confirmation pop-up message is displayed (see example in <u>Exhibit 88</u>). The Component Details field provides the error or warning.

Select **Cancel** to change to a different component. Otherwise, select **OK** to install the recalled component.

- b. <u>If the component has no warnings</u>, the Associate Component tab is redisplayed with a success message (see example in <u>Exhibit 89</u>). The **Reporter** field is populated. The **View Details** link opens a pop-up that shows the Component Details for the row selected (see example in <u>Exhibit 104</u>). Select **OK** to close it.
- c. <u>If the component was associated incorrectly</u>, (e.g., wrong Equipment ID, or wrong position on equipment), the association can be nullified. See <u>Nullify an Association</u>.
- 3. Select **Cancel** to return to the Associate Component tab or select another menu item.

## **Cushioning Unit Association**

The table at the bottom shows the cushioning unit positions (from the "B" end). The equipment example in Exhibit 107, has two positions for component association.

Associate Component Upload CSV Search for Equipment ID Note: Use Nullify only to remove an association that was entered incorrectly. Use Associate to associate a comp onent to a piece of eq RAIL7213 Equipment Group: GOND Equipment Type Code: E544 Lessee: Mechanical Designation: GBSR Truck Count: Umler Owner RAIL Axle Count: Stenciled Shipping Spec Select Component for Association CUSHIONING UNIT . Components Associated to the Umler Record **Position From E** SPLC Equipment ID in Conflict Component Type AAR Component ID Performer Reporter Component Details Select End Cushioning Unit B Q ۲ Q Cushioning Unit A Q Q 🗹 Asso Nullify × Cancel

Exhibit 107. Associate Cushioning Unit to Equipment

- 3. Enter the following fields:
  - a. Select the checkbox beside the position where the component has been applied.
  - b. Enter the **AAR Component ID**. If the component ID is unknown, use lookup icon (Q) to open the Component Search pop-up (Exhibit 108).
    - Enter information in the three required fields and select **Search**.

**Note:** The system will only return the most recent registration for criteria submitted.

Exhibit 108. Cushing Unit Component Search

Component Search									1
Note: Enter the Condition and Manufacturer	Condition Code * 1 - New				•				
	Manufacture Month								
	Manufacture Year 21								
	Reconditioned Date								
	Manufacturer * EHI - EHI				-				
	Serial Number								
	Model Number								
							8	Clear	<b>Q</b> Search
Component Condition Co Manufac	turer Manufactur	Manufactur	Recondition	Model Num	AAR Specifi	Serial Num	Travel Length	Component F	Registration Date
BRIC0003491 1 EHI	5	21		15MC2FT		12345		09/26/2023 00:	28
								Soloct	¥ Clas

- When the appropriate component is found, select the checkbox in the first column and **Select** to close the tab and return to the Associate Components tab. The selected Component ID is added to the AAR Component ID field.
  - **Note:** If no component ID is found, register the component as described in <u>Add</u> <u>New Component</u>, and come back to associate. Recalled components are NOT identified in a search.

**Note:** If no component ID is found, register the component as described in <u>Add New</u> <u>Component</u>, and come back to associate. Recalled components are NOT included in search results.

- c. Enter the **Association Date** or use the calendar icon to select the date. This is the date that the component was applied, either today or an earlier date, but cannot be in the future.
- d. Enter the mark of the **Performer**. This is the shop mark.
- e. Enter a 9-digit SPLC or use the lookup icon to search for a SPLC. This is the location where the application was performed (e.g., shop SPLC).
- f. Enter additional components to the rows below as appropriate.
- 2. Once you have entered all the appropriate fields and checked the boxes for the components to associate, select **Associate**.
  - a. <u>If a component ID has been identified in a recall</u>, a confirmation pop-up message is displayed (see example in <u>Exhibit 88</u>). The Component Details field provides the error or warning.

Select **Cancel** to change to a different component. Otherwise, select **OK** to install the recalled component.

b. <u>If the component has no warnings</u>, the Associate Component tab is redisplayed with a success message (<u>Exhibit 109</u>). The **Reporter** field is populated. The **View Details** link opens a pop-up that shows the Component Details for the row selected (see example in <u>Exhibit 104</u>). Select **OK** to close it.

		oprodd CSV								
earch f	or Equipment ID									
0	Component(s) associ	ation request is acce	epted successfully.							
lote: Lise	Nullify only to romo	we an association th	at was ontored incorrectly	Lise Associate to associa	te a component to	a piece of equipment				
	ritunity only to remo	te un association an	at was entered meancedy.	ose resociate to associa	te a component to	a piece of equipment				
			RAIL7213				Q Sea	irch		
uipmer	nt Group:	GOND		Lessee:				Equipment Type Code:	E544	
echanio	al Designation:	GBSR		Truck Count:		2				
nler Ov	vner:	RAIL		Axle Count:		4		Stenciled Shipping Spec:		
lect C	omponent for Asso	ociation	Component Type CUSHIONIN	g unit			<b>*</b>			
elect C	omponent for Asso	ociation	Component Type CUSHIONIN	G UNIT			• 			
elect C	omponent for Asso ents Associated to	ociation	Component Type CUSHIONIN -	G UNIT			• 			
ompon Select	ents Associated to	ociation o the Umler Record Position From B End	Component Type CUSHIONIN AAR Component ID	G UNIT	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Statu
>mpon	ents Associated to Component Type Cushioning Unit	the Umler Record Position From B End B	Component Type CUSHIONIN AAR Component ID 8RIC0003491953	G UNIT Association Date 09/26/2023	Performer E RAIL	SPLC 411657000 Q	Reporter RAIL	Component Details View Details	Equipment ID in Conflict	Statu
ompon	component for Associated to     Component Type     Cushioning Unit     Cushioning Unit	betation beta Umler Record Position From B End B A	AR Component ID BRIC0003491953 Q	G UNIT Association Date 09/26/2023	Performer RAIL	SPLC 411657000 Q	Reporter RAIL	Component Details View Details	Equipment ID in Conflict	State
ompon	ents Associated to Component Type Cushioning Unit Cushioning Unit	the Umler Record Position From B End A	AAR Component ID 881(C0003491953 Q	G UNIT Association Date 09/26/2023	Performer RAIL D	SPLC 411657000 Q	Reporter RAIL	Component Details View Details	Equipment ID in Conflict	State

Exhibit 109. Successful Cushioning Unit Association

- c. <u>If the component was associated incorrectly</u>, (e.g., wrong Equipment ID, or wrong position on equipment), the association can be nullified. See <u>Nullify an Association</u>.
- 3. Select **Cancel** to return to the Associate Component tab or select another menu item.

### **View All**

When **View All** is selected from the **Component Type** drop-down, all components associated with the equipment ID are displayed in the table below (<u>Exhibit 110</u>).

Exhibit 110. View All Associated Components for Equipment ID

Note: Use	Nullify only to rem	ove an association	that was entered incorre	ectly. Use Associate to asso	ciate a componer	nt to a piece of equ	ipment.			
			Equipment ID RAIL30085	5			Q Searc	ch		
quipmen	nt Group:	VFLT		Lessee:				Equipment Type Code:	V971	
Aechanic	al Designation:	FA		Truck Count:		2				
Jmler Ow	vner:	RAIL		Axle Count:		4		Stenciled Shipping Spec:		
select Cr	omponent for As	sociation								
			Component Typ	e						
			Component Typ View All	e			<u>-</u>			
Compone	ents Associated	to the Umler Rec	Component Typ View All	e			<u>·</u>			
Compone	ents Associated 1 Component Type	to the Umler Rec Position From B End	Component Typ View All	e Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Statu
Compone Select	Component Type Boister	to the Umler Rec Position From B End B	AAR Component ID RAIL0000001212	Association Date	Performer RAIL	SPLC 411657000	Reporter RAIL	Component Details View Details	Equipment ID in Conflict	Statu
Select	Component Type Boister Side Frame	to the Umler Record       Position From B End       B       BL	AAR Component Typ View All RAIL0000001212 RAIL0000001120	Association Date	Performer RAIL RAIL	SPLC 411657000 411657000	Reporter RAIL RAIL	Component Details View Details View Details	Equipment ID in Conflict	State
Select	Component Type Bolster Side Frame Slack Adjuster	Desition From B End BL	AAR Component Typ View All RAIL0000001212 RAIL0000001120 8RIC0003491770	Association Date 09/26/2023 g 09/26/2023 g 09/26/2023 g 09/26/2023 g	Performer RAIL RAIL RAIL	SPLC           411657000           411657000           411657000	Reporter RAIL RAIL	Component Details View Details View Details View Details View Details	Equipment ID in Conflict	State

View the details of each component by selecting the **View Details** link in the **Component Details** column. (see example in Exhibit 104).

## Nullify an Association

If it is determined that a component ID has been incorrectly applied to an equipment ID, the association can be nullified. To nullify large numbers of incorrectly or prematurely associated components, see <u>Upload CSV</u>. Use the following procedure to nullify an association:

- 1. Log onto Umler as described in Logging In. The Umler Home page is displayed (Exhibit 8).
- 2. Select **Component Registry > Associate Component** from the Umler menu. The Associate Component tab is displayed (see example in Exhibit 84).
- 3. Enter the Equipment ID with the incorrect component, and select **Search**. The Associate Component to Equipment results is displayed (<u>Exhibit 111</u>).

Exhibit 111. Remove Component from Equipment

Select C	omponent for As	sociation									
			Component Typ View All	ie				*			
Compon	ents Associated	to the Umler Rec	ord								
Select	Component Type	Position From B End	AAR Component ID	Association Date		Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Status
	Bolster	В	RAIL0000001212	09/26/2023	۲	RAIL	411657000	RAIL	View Details		
	Side Frame	BL	RAIL0000001120	09/26/2023	Ē	RAIL	411657000	RAIL	View Details		
	Slack Adjuster	1	8RIC0003491770	09/26/2023	÷	RAIL	411657000	RAIL	View Details		
	Wheelset	1	8RIC0003491952	09/26/2023	ŧ	RAIL	411657000	RAIL	View Details		
										S Associate Vullify	🗙 Car

4. Select the checkbox to the left of the incorrectly associated component, and select Nullify. A confirmation pop-up is displayed (<u>Exhibit 112</u>).

Exhibit 112. Confirm Nullify



5. If unsure about the nullification, select **Cancel**. Otherwise, select **OK** to nullify the association. You will be returned to the Associate Component tab with a success message (Exhibit 113).

earch for Equipment	ID									
The nullification	n request has been acc	epted and processed.								
ote: Use Nullify only to	remove an associatior	that was entered incorre	ectly. Use Associate to	associate a con	onent to a piece of eq	uipment.				
		Equipment ID				_	_			
		RAIL30085	5			Q Sea	arch			
quipment Group:	VFLT		Lessee:				Equipment Type Code:	V971		
lechanical Designation	FA		Truck Count:		2					
mler Owner:	RAIL		Axle Count:		4		Stenciled Shipping Sp	ec:		
elect Component fo	Association	Component Typ View All	ie			•				
elect Component fo omponents Associa	Association ed to the Umler Rec Position From	Component Typ View All	e			•				
elect Component fo omponents Associa elect Type	Association ed to the Umler Rec Position From B End	Component Typ View All ord AAR Component ID	e Association Date	Perform	r SPLC	Reporter	Component Details	Equipment ID in Co	nflict	Stat
elect Component fo omponents Associa ielect Type Side Fram	Association ed to the Umler Rec B End 2 BL	Component Typ View All ord AAR Component ID RAIL0000001120	e Association Date 09/26/2023	Perform 5 RAIL	r SPLC 411657000	Reporter RAIL	Component Details View Details	Equipment ID in Co	nflict	State
elect Component fo omponents Associa celect Type Side Fram	Association ed to the Umler Rec Position From B End a BL er 1	AAR Component ID RAIL0000001120 8RIC0003491770	e Association Date 09/26/2023 09/26/2023	Perform E RAIL E RAIL	r SPLC 411657000 411657000	Reporter RAIL RAIL	Component Details View Details View Details	Equipment ID in Co	nflict	Stat

Exhibit 113. Successful Association Nullification

**Note:** If the nullification was for an incorrect position, the component ID can be entered into the correct position and a correct association completed as described in Step <u>1</u>. Likewise, a different component ID can be entered and associated.

6. Select **Cancel** to return to the Associate Component tab, or select another menu item.

## **Upload Association CSV**

Uploads can be used to quickly submit many similar associations or to nullify large numbers of incorrectly or prematurely associated components. Users can upload association information from proprietary systems in an acceptable CSV format. Use the following procedure to upload an association CSV file:

- 1. Log onto Umler as described in Logging In. The Umler Home page is displayed (Exhibit 8).
- 2. Select **Component Registry > Associate Component**. The Associate Component tab is displayed.
- 3. Select the Upload CSV tab. Browse files to find an association CSV is displayed (Exhibit 114).

Exhibit 114. Browse to Find CSV File

Associate Component Upload CSV	
Browse files to find an association CSV	
Filename.csv: Browse No file selected.	Retrieve csv format templates
	Submit

To prepare your file for upload, you can use the formatted Association CSV Template available on Railinc's <u>Component Tracking page</u>. Select the **Retrieve csv format templates** link in the application and select the <u>CSV Templates zip file</u> in the **Related Documents** section to open or save the association template (<u>Exhibit 115</u>). For more information on preparing your file, see <u>CSV Association Upload File Preparation</u>.

When your CSV file is properly prepared, upload the file.

- 4. Select the **Browse** button to locate a file on your computer upload.
- 5. Select the file and select **Open**. **Browse Files to Find an Association CSV** is redisplayed with the selected file.
- 6. Select **Submit**. A message is displayed. If the upload is successful, you'll receive a green message at the top letting you know if your file has been successfully submitted.
- 7. Check your email for a notification from the system with the status of the records you submitted.

If errors occurred in processing the file, those errors are identified by Component ID and field-by-field. These details can assist in correcting the upload file before uploading and submitting again.

8. Optionally, if the transactions for your uploaded records were successfully completed, check the equipment ID to verify a few records in the upload have been appropriately associated (see <u>Associate Component</u>).

# **CSV** Association Upload File Preparation

Exhibit 115. Association CSV Upload Template (in Excel)

А	utoSave 💽 Off	日 り	~ C, <u>~</u>	Ļ	Association Template.o	:sv - Read-Or	ıly - Excel	2	Search
Fil	le Home	Insert	Page Layou	ut Formulas	Data Review	View	Automate Help	Acrobat	
A1		×	√ f <sub>x</sub>	TransactionType					
			В	с	D				н
1	TransactionType	e Com	ponentType	EquipmentID	ComponentID	Position	AssociationDT	Performer	SPLC
2	CA	WHE	ELSET	RAIL000000123	RAIL000000101	1	6/7/2022	RAIL	411700000
3	CN	WHE	ELSET	RAIL000000123	RAIL000000101	1	6/7/2022	RAIL	411700000
4									

The fields are as described in the online Element Help and in the <u>Umler Component Tracking</u> <u>Data Specifications Manual</u> available on the <u>Umler product page</u>. The Transaction Type indicates what action the user wants done for each row of information entered:

#### For component associations:

- **CA** = Associate Component
- **CN** = Nullify Component Association
- **Notes:** A single upload file can contain both types of transactions.
  - Large text entries should not contain commas (which are interpreted as field delimiters). Use dashes or other keyable characters.
  - For more information, see <u>Umler Bulk Upload Transactions CSV File</u> <u>Specifications</u> and other resources available on the <u>Umler product page</u>.

### **Component Association Transaction History**

The history of component association transactions can be found using the Umler Transaction Log task. Use the following procedure to view historical component associations:

- 1. Log onto Umler as described in Logging In. The Umler Home page is displayed (Exhibit 8).
- Select Query > Transaction Log. The Transaction Log Search page is displayed (<u>Exhibit</u> <u>116</u>).

#### Exhibit 116. Transaction Log Search Using Element Value Criteria

Search Transaction Log		
Enter the starting and ending date/time to display transactions that fall between the date range.		
		Q Search 🔲 Count 🥒 Clear
In what format would you like your results?		
Output to (CSV is a chargeable function) * Browser(Summary)	Maximum Number of Results (Browser Output Only) * 1000	<b>.</b>
Results will include transactions matching ALL of the following criteria		
* At least one input is required:		
Starting Date/Time 07/31/2023	Ending Date/Time 08/01/2023 💼 11	59 🔿 AM 💿 PM
Search All Dates		
Equipment ID(s)	Company-Specific Equipment Group(s)	
		//. <b>Q</b>
Transaction Type(s):	User ID(s)	
•		
Flamant Value Criteria		
Element Value Criteria:		
Element Value Criteria: Element Groups Element WHEELSET - Wheelset on Truck Vheelset Component ID - B350	Transaction Value	🗌 All Values
Element Value Criteria: Element Groups Element WHEELSET - Wheelset on Truck Wheelset Component ID - B350 T Element Groups	Transaction Value	All Values
Element Value Criteria: Element Groups WHEELSET - Wheelset on Truck  Element Element Groups Element - Element - Element - Element	Transaction Value Previous Value	All Values     All Values
Element Value Criteria: Element Groups Element WHEELSET - Wheelset on Truck Vheelset Component ID - B350 Element Groups Element Value Component ID - B350 Element Component ID - B350 Element Value Criteria:	Transaction Value Previous Value	All Values All Values
Element Value Criteria: Element Groups WHEELSET - Wheelset on Truck  Element Element Groups Element Wheelset Component ID - B350  C	Transaction Value Previous Value	All Values     All Values
Element Value Criteria: Element Groups WHEELSET - Wheelset on Truck  Element Wheelset Component ID - B350  Element  Elem	Transaction Value Previous Value	All Values     All Values
Element Value Criteria:  Element Groups WHEELSET - Wheelset on Truck Wheelset Component ID - B350  Element Beenent Element Ele	Transaction Value Previous Value criteria.	All Values
Element Value Criteria: Element Groups WHEELSET - Wheelset on Truck  Element Groups  Element Groups  Element E	Transaction Value Previous Value Icriteria. It the time of the transaction.	All Values     All Values
Element Value Criteria:  Element Groups WHEELSET - Wheelset on Truck  Element Groups  Element Groups  Element  Croups  Element  Croups  Element  El	Transaction Value  Previous Value  criteria.  t the time of the transaction.  Umler Owner(s)	All Values
Element Value Criteria:  Element Groups WHEELSET - Wheelset on Truck  Element Groups  Element Groups  Element  Results will include transactions matching ANY of the following Ownership/Control criteria#  Show me all transactions on the equipment currently meeting the specified ownership/control criteria and the specified ownership/con	Transaction Value  Previous Value  I criteria. It the time of the transaction. Umler Owner(s)	All Values
Element Value Criteria:  Element Groups WHEELSET - Wheelset on Truck  Element Groups  Element Groups  Element  Results will include transactions matching ANY of the following Ownership/Control criteria#  Show me all transactions on the equipment that met the specified ownership/control criteria; Equipment Initial(s)  Umler Company	Transaction Value  Previous Value  I criteria.  It the time of the transaction.  Umler Owner(s)  Lessee	All Values
Element Groups WHEELSET - Wheelset on Truck Element WHEELSET - Wheelset on Truck Element Croups Element Element Element Element Element Element Element Umler company	Transaction Value  Previous Value  criteria.  the time of the transaction.  Umler Owner(s)  Lessee	All Values
Element Value Criteria:         Element Groups         WHEELSET - Wheelset on Truck         Element Groups         Go Show me all transactions on the equipment currently meeting the specified ownership/control criteria group Groups         Equipment Initial(s)         Multiple Company	Transaction Value  Previous Value  criteria.  Umler Owner(s)  Lessee	All Values
Element Value Criteria:  Element Groups WHEELSET - Wheelset on Truck  Element Groups  Element Groups  Element  Results will include transactions matching ANY of the following Ownership/Control criteria#  Show me all transactions on the equipment <u>currently</u> meeting the specified ownership/control criteria and the specified ownership/control criteria and transactions on the equipment that met the specified ownership/control criteria and transactions on the equipment that met the specified ownership/control criteria and transactions on the equipment that met the specified ownership/control criteria and transactions on the equipment that met the specified ownership/control criteria and the specified ownership/control criteria and transactions on the equipment that met the specified ownership/control criteria and the specified ownership/control criteria and transactions on the equipment that met the specified ownership/control criteria and transactions ownership/control criteria	Transaction Value  Previous Value  I criteria. It the time of the transaction. Umler Owner(s) Lessee	All Values
Element Value Criteria:  Element Groups WHEELSET - Wheelset on Truck  Element Groups  Element Groups  Element Groups  Element  Results will include transactions matching ANY of the following Ownership/Control criteria#  Show me all transactions on the equipment currently meeting the specified ownership/control criteria; Equipment Initial(s)  Umler Company  Stenciled Mark Owner	Transaction Value         Previous Value         I criteria.         tt the time of the transaction.         Umler Owner(s)         Lessee	All Values
Element Value Criteria:  Element Groups WHEELSET - Wheelset on Truck  Element Groups  Element Groups  Element Groups  Element Results will include transactions matching ANY of the following Ownership/Control criteria#  Show me all transactions on the equipment currently meeting the specified ownership/control criteria, Equipment Initial(s)  Umler Company  Stenciled Mark Owner	Transaction Value  Previous Value  criteria.  Umler Owner(s)  Lessee	All Values

- 3. Set general search criteria as described in the *<u>Umler User Guide</u>*.
- 4. To confine the results to component transactions, select <u>one</u> of the following from the **Element Groups** and **Element** fields:
  - BOLSTER Bolster on Truck and Bolster Component ID B351
  - COUPLER Coupler on Draft System and Coupler Component ID B353
  - EMERVALVE Emergency Brake Valve and Emergency Brake Value Component ID B354
  - SERVVALVE- Service Brake Valve and Service Brake Valve Component ID B357
  - SIDEFRAME Side Frame on Truck and Side Frame Component ID B352
  - SLAKADJUST Slack Adjuster and Slack Adjuster Component ID B359
  - WHEELSET Wheelset on Truck and Wheelset Component ID B350
  - PRVALVE Pressure Relief Valve and Pressure Relief Valve Component ID B360
  - CUSHUNIT Cushioning Unit and Cushioning Unit Component ID B361

An example of search results for wheelset components is shown in Exhibit 117.

Exhibit 117. Transaction Log Search Results

Transact	ion Log Search R	esults									
Search	Criteria Searc	h Results									
1249 matche	es found. 1000 available f	or display. 1000 mat	ches displayed	l on this page.							
The following	transactions matched th	ne specified search cri	iteria.								
										🗙 Clear Filt	ters
ID	TimeStamp	Equipment ID	EG	ETC	MD	Pool ID Equip Owner	Lessee	Туре	State	Company	
183926943	10/01/2020 08:33 AM	RAIL0000001200	HOPP	C111	LO	RAIL	AARE	ECC	Normal	RAIL	^
<u>184889747</u>	10/29/2020 08:17 AM	RAIL0000010120	MISC	M280	MWG	RAIL		ECC	Normal	RAIL	
<u>185030132</u>	11/03/2020 12:32 PM	RAIL0000002228	FLAT	M150	MWF	RAIL		ECD	Normal	RAIL	
<u>185030134</u>	11/03/2020 12:32 PM	RAIL0000002230	BOXC	R300	RB	RAIL		ECD	Normal	RAIL	
<u>185030155</u>	11/03/2020 12:32 PM	RAIL0000667788	FLAT	M150	MWF	RAIL		ECD	Normal	RAIL	
<u>185059482</u>	11/04/2020 08:35 AM	RAIL0000110420	MISC	M280	MWG	RAIL		ECA	Normal	RAIL	
185060065	11/04/2020 08:58 AM	RAIL0000018020	BOXC	R300	RB	RAIL		ECA	Normal	RAIL	
185312818	11/12/2020 08:57 AM	RAIL0000661750	GOND	G510	GB	RAIL		ECC	Normal	RAIL	
<u>185312819</u>	11/12/2020 08:57 AM	RAIL0000020895	GOND	G510	GB	RAIL		ECC	Normal	RAIL	
186088475	12/08/2020 09:19 AM	RAIL0000002227	BOXC	R300	RB	RAIL		ECD	Normal	RAIL	
186286867	12/10/2020 10:59 AM	RAIL0000001200	HOPP	C111	LO	RAIL	AARE	ECC	Normal	RAIL	
<u>188511571</u>	02/22/2021 08:34 AM	RAIL000000024	HOPP	C111	LO	RAIL	AARE	ECC	Normal	RAIL	
<u>189543037</u>	03/17/2021 08:49 AM	RAIL0000000011	BOXC	R400	RB	RAIL		ECD	Normal	RAIL	~
<											>

5. To view the details of the transaction, select an **ID** link in the first column. The first transaction is shown in Exhibit 118.

Transaction Details							
Transaction ID :	212271807						
Timestamp :	mestamp : 07/31/2023 4:34 PM		Equipment Group :		BOXC		
Equipment ID :	RAIL0000726201	Mechanie	al Desigr	nation :	XP		
Equipment Type Code :	A405	User :			SANDEEP		
Type :	ECC	Equipme	nt Owner	:	RAIL		
State :	Normal	Lessee :					
Company :	RAIL	EIN :			001085004	14	
Trans Source :	WEB_SERVICES						
Element ID Element Name	Transaction Element Value	Previous Element Value	AC	Component ID	Component Location	Parent ID	Parent Location
B122 Last Update Date	07/31/2023	07/31/2023	E	BASE	1		
B355 Informational Conflict Status		Y	R	BASE	1		
			А	WHEELSET	D	TRUCK	А
B350 Wheelset Component ID	RAIL0034353485		E	WHEELSET	D	TRUCK	А
← Previous						<b>*</b> 0	Done Next 🔶

#### Exhibit 118. Component Transaction Details

Exhibit 118 shows a component ID with a null previous element value, so this transaction represents an association event.

6. Select **Done** to return to the search results, or select **Next** to view the next component transaction details (<u>Exhibit 119</u>).

Exhibit 119. Nullification Transaction Details

Transaction Details			
Transaction ID :	212271630		
Timestamp :	07/31/2023 4:15 PM	Equipment Group :	BOXC
Equipment ID :	RAIL0000726201	Mechanical Designation :	XP
Equipment Type Code :	A405	User :	BSJXR02
Type :	ECC	Equipment Owner :	RAIL
State :	Normal	Lessee :	
Company :	RAIL	EIN :	0010850044
Trans Source :	WEB_SERVICES		
Element ID Element Name	Transaction Element Value Previous Elem	ent Value AC Component ID Componen	t Location Parent ID Parent Location
B350 Wheelset Component ID	RAIL00007262	201 R WHEELSET 1	TRUCK B
♦ Previous			A Done Next >

In <u>Exhibit 119</u>, the Wheelset Component ID value is null, with a previous value of RAIL0000726201, which indicates that the association has been nullified.

7. Select **Done** to return to the search results or select another menu item.

### Query

When the user selects **Query**, the Query submenu opens:

#### Exhibit 120. Query Submenu

Component Registry	-	
Registration		
Associate Component		
Query	×.	Pre-defined Query
		Advanced Query

The Component Registry Query menu has the following functions:

#### Exhibit 121. Component Registry Query Menu Functions

Pre-Defined<br/>QueriesAllows authorized users to execute standard queries (Exhibit 122).

Advanced Query Allows you to prepare custom queries using multiple criteria with Boolean operators that can be saved, run, and edited. Refer to the <u>Railinc Advanced</u> <u>Ouery User Guide</u> accessed using the Advanced Query Documentation tab.

# **Pre-Defined Queries**

Pre-defined queries can be used to identify:

- Components your company has registered (date range allowed)
- Components associated to your equipment (date range allowed)
- Components you have associated in the past 90 days

Results are always sent from Component Tracking as a zipped CSV file attached to an email. Use the following procedure to run a pre-defined query:

- 1. Log onto Umler as described in Logging In. The Umler Home page is displayed (Exhibit 8).
- 2. Select **Component Registry > Pre-Defined Query** from the Umler menu. The Pre-Defined Query page is displayed (<u>Exhibit 122</u>).

Exhibit 122	. Pre-Defined	Query
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Pre-defined Query	
Components I have Registered	
Components Associated to my Equipment	
Components I have Associated in last 90 days	
Component Type:	
Hold CTRL to select multiple component types	
Date Range: 6/30/2023 To 7/31/2023	-
Search All Dates	
Most Current Component Associated	
Query only recalled components	
Equipment List :	
<i>I</i> I	_
"Components Associated to my Equipment" and "Components I have Registered" queries are limited to 50,000 compo	nents per request
	Q Submit Scancel

- 3. Make your criteria selections. **Component Type** can be set to Bolster, Coupler, Cushioning Unit, Brake Valve Control Emergency, Pressure Relief Valve, Brake Valve Control Service, Sideframe, Slack Adjuster or Wheelset.
- 4. Select Submit (Exhibit 123).

Exhibit 123. Pre-Defined Query With Criteria

Pre-defined Query	
O Components I have Registered	
Omponents Associated to my Equipment	
Components I have Associated in last 90 days	
Component Type:	
BOLSTER	^
COUPLER	
CUSHIONING UNIT	
BRAKE VALVE CONTROL EMERGENCY	~
Hold CTRL to select multiple component types	
✓ Search All Dates	
Most Current Component Associated	
Query only recalled components	
Equipment List :	
	4
"Components Associated to my Equipment" and "Components I have Registered" que	ries are limited to 50,000 components per request
	Submit X Cancel

5. A success message is displayed (Exhibit 124).

Exhibit 124.	Successfully	Submited	<b>Pre-Defined</b>	Query
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Pre-defined Query
Vour request has been submitted for processing. Once processing is complete, you will receive a CSV file with query results. The message will be sent to your registered email address.
O Components I have Registered
Components Associated to my Equipment
O Components I have Associated in last 90 days
Component Type:
BOLSTER
COUPLER
CUSHIONING UNIT
BRAKE VALVE CONTROL EMERGENCY
Hold CTRL to select multiple component types
✓ Search All Dates
Most Current Component Associated
Query only recalled components
Equipment List :
"Components Associated to my Equipment" and "Components I have Registered" queries are limited to 50,000 components per request
S Submit X Cancel

6. Component Tracking will send you an email that contains a .zip file (Exhibit 125).

Exhibit 125. Pre-Defined Query Results Email



7. Double-click the .zip file within the email to save or open it in a spreadsheet application like Excel.

### Glossary

AAR—Association of American Railroads

**Car Hire**—Car Hire is a usage charge paid to car owners by railroads for the use of freight cars and appurtenances.

**CEPM**—Component Tracking was formerly named CEPM (Comprehensive Equipment Performance Monitoring). Components are registered in the Umler Component Registry, and associated to equipment using Component Tracking or through inputs from CRB and EHMS. The first component was wheelsets. Subsequently added components include bolsters, couplers, and side frames, etc.

**Component ID**—Uniquely identifiable information that includes 14 characters and is comprised of a company ID or Mark and up to 10-digit serial number. This component ID is the standard "AAR Component ID" that will be physically applied to the component during assembly.

CRB—Car Repair Billing.

EHMS—Equipment Health Maintenance System.

**Equipment ID**—Unique railcar equipment initials (mark) and equipment number, as registered in Umler.

LCS—Liability Continuity System.

**SPLC**—Standard Point Location Code.

**Umler**— The Umler system provides secure access for equipment management and reporting tools and identifies internal and external dimensions, capacities, weight information, and other specific characteristics of freight cars–as well as intermodal trailers and containers.

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