



Umler[®] 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® 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 [Umler User Guide](#).

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 [Umler User Guide](#).

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 [Railinc Single Sign-On User Guide](#).

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 [Railinc Interface Elements](#).

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

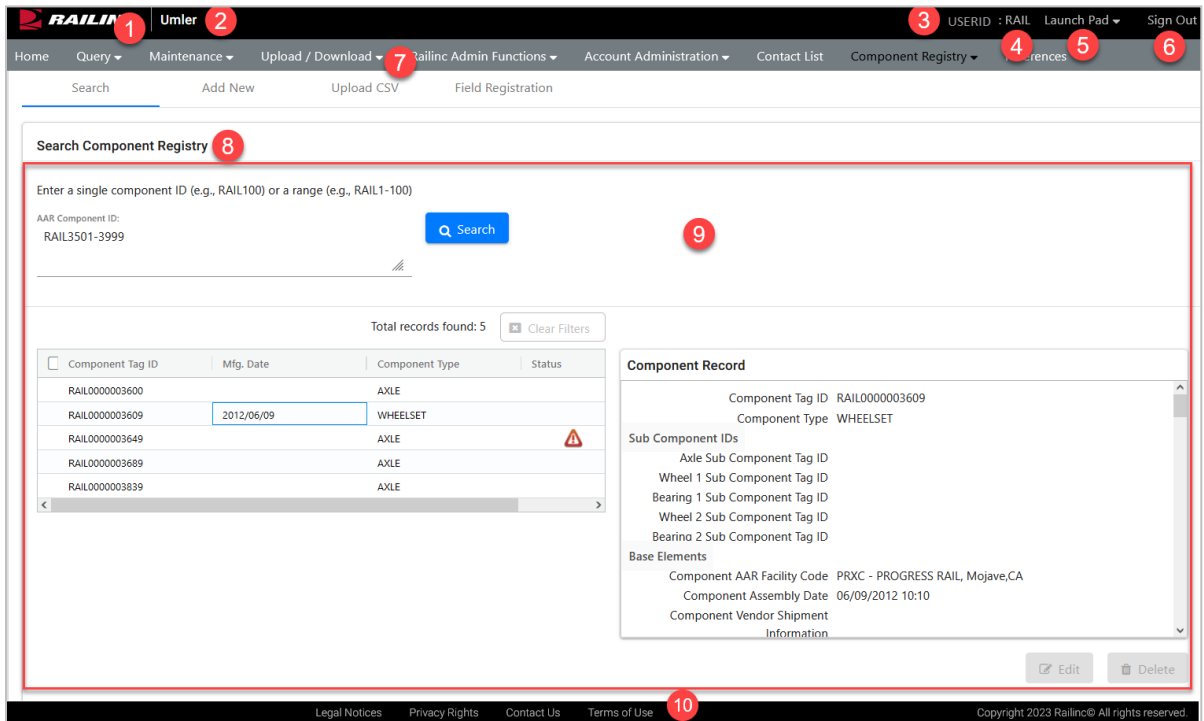
User Interface

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

Railinc Component Tracking Page Layout

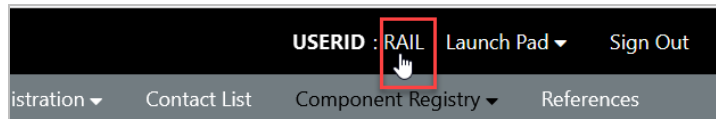
Each page in a Railinc web application has a similar structure.

Exhibit 1. Railinc Web Application Page Layout



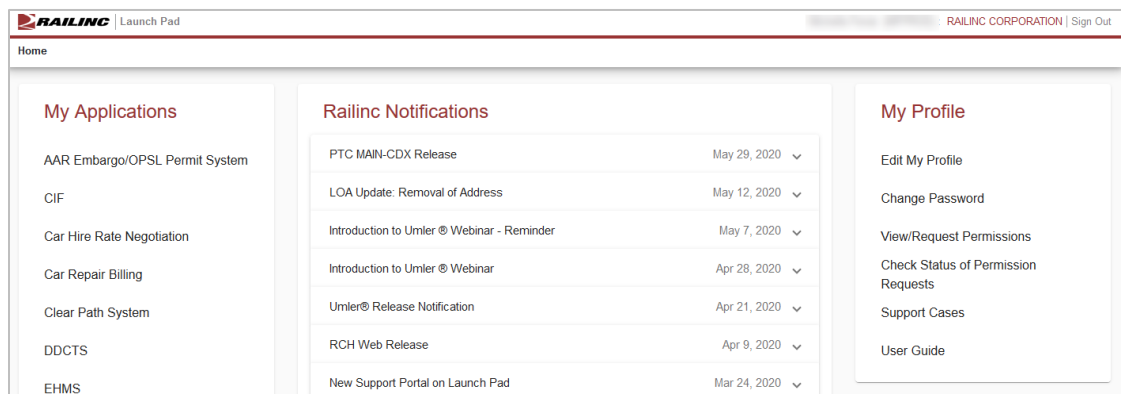
- 1 Logo**—Railinc logo. Logo is a link to the Railinc corporate website.
- 2 Application Title**—Name of the application. This is also a link to the Home page of the application.
- 3 User ID**—Logged in user.

- 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 ([Exhibit 7](#)), 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



- 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 [Umler User Guide](#), 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.

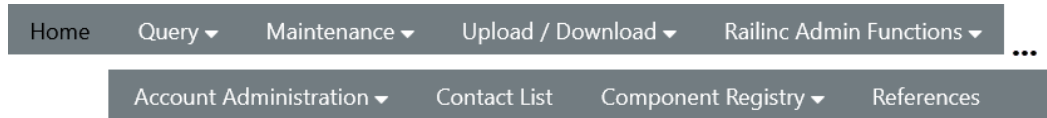
Component Tracking -Specific Interface Elements

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.

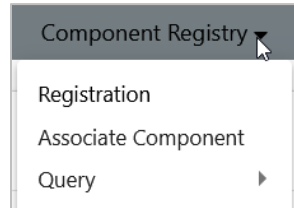
Exhibit 3. Umler/ Component Registry Application Menu Bar



The Component Registry application menu provides the functions described in [Exhibit 9](#):

Component Registry Menu

Exhibit 4. Component Registry Menu



Component Tracking Icons and Indicators

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

Exhibit 5. Component Tracking-Specific Icons

Icon	Description
Component Tracking-Specific Icons	
	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

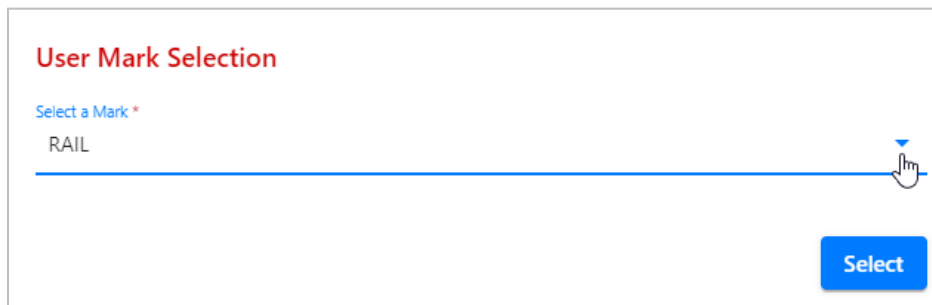
The Umler application is accessed using the Railinc Single Sign On (SSO), which can be accessed from the Railinc portal at <https://public.railinc.com>. Click the **Customer Login** link in the upper right of the page.

Logging In

To log into the Umler application:

1. Open your internet browser and enter <https://public.railinc.com> 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. If the user represents only one company, the Umler Home page is displayed ([Exhibit 8](#)).
 - b. If the user represents two or more companies, the User Mark Selection pop-up is displayed ([Exhibit 7](#)). Enter or select the company you want to represent and click the **Select** button. The Umler Home page is displayed ([Exhibit 8](#)). To switch to a different company, select the current company mark displayed next to your userid in the upper right (see [Company](#) 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 User Guide](#)
- [Umler Data Specification Manual](#)
- [Umler Change Request Form](#)
- [Component Registry User Guide](#)
- [Component Registry Data Specification Manual](#)

Umler Contacts for RAIL

External users are not currently provided Umler contacts for RAIL when searching Findus.Rail. Providing contacts in Findus.Rail makes it easy for the rail industry to contact your company.

Umler Company Administrator(s) for RAIL Equipment, Pool, and Inspection Rights:

[Umler Company Admin](#)

To search for contacts at other companies [click here](#)

Equipment

Single Equipment Search

Equipment units in conflict: 775

[Download Equipment in Conflict](#)

Equipment with component ID conflicts: 71

Equipment Validation Requests: 0

Continue by selecting **Component Registry** from the application menu item (refer to [Exhibit 9](#)) 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](#)).
- [Associate Component](#) Allows the authorized user to associate a component with an equipment ID ([Exhibit 84](#)).
- [Query](#) Opens the Query submenu ([Exhibit 120](#)).

Logging Out

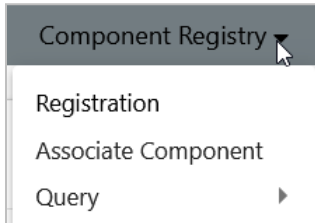
Select the **Launch Pad** link to end an Umler session. The user returns to the SSO Launch Pad.

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 all 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



[Exhibit 11](#) describes the tasks available on the tabs.

Exhibit 11. Registration Tabs and Descriptions

Tab Item	Description
Search	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 ([Exhibit 12](#)).

Exhibit 12. Search Component Registry

- 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 ([Exhibit 13](#)) components from RAIL from 1625-2000 was entered.

Exhibit 13. Component Registry Search Results

Search
Add New
Upload CSV
Field Registration

Search Component Registry

Enter a single component ID (e.g., RAIL100) or a range (e.g., RAIL1-100)

AAR Component ID:
RAIL1625-2000

Total records found: 6

<input type="checkbox"/>	Component Tag ID	Mfg. Date	Component Type	Status
<input type="checkbox"/>	RAIL0000001633		EMERVALVE	
<input type="checkbox"/>	RAIL0000001643		BEARING	
<input type="checkbox"/>	RAIL0000001653		BEARING	
<input type="checkbox"/>	RAIL0000001729		COUPLER	
<input type="checkbox"/>	RAIL0000001905	2017/11/13	WHEELSET	
<input type="checkbox"/>	RAIL0000001943		BEARING	

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.

- 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 ([Exhibit 14](#)). To view details of a different component, select its row. To view complete details, the user must Edit the record. See [Editing Components](#) for details.

Exhibit 14. Component Registry Search Results with Component Details

Search Add New Upload CSV Field Registration

Search Component Registry

Enter a single component ID (e.g., RAIL100) or a range (e.g., RAIL1-100)

AAR Component ID:
RAIL1625-2000

Total records found: 6

<input type="checkbox"/>	Component Tag ID	Mfg. Date	Component Type	Status
<input type="checkbox"/>	RAIL000001633		EMERVALVE	
<input type="checkbox"/>	RAIL000001643		BEARING	
<input type="checkbox"/>	RAIL000001653		BEARING	
<input type="checkbox"/>	RAIL000001729		COUPLER	
<input checked="" type="checkbox"/>	RAIL000001905	2017/11/13	WHEELSET	
<input type="checkbox"/>	RAIL000001943		BEARING	

Component Record

Component Tag ID RAIL000001905
Component Type WHEELSET

Sub Component IDs

Axle Sub Component Tag ID
Wheel 1 Sub Component Tag ID
Bearing 1 Sub Component Tag ID
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

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 [Add New Component](#). 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 CSV
Field Registration

Edit Component

AAR Component ID:

Company Code
RAIL

Component ID Number
000001905

Component Type
WHEELSET

Save Cancel

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 Facility Code (C003): ABG - AMTRAK, Beech Grove,IN
- * Component Assembly Date (C004): 11/14/2017 (mm/dd/yyyy)
- * Component Assembly Time (C004): 02:10 (hh:mm)
- Component Defect Flag (C007):
- Component Registration Date (C010): 04/30/2019 19:05
- Purchased Core Turned (C011): Y - Yes
- Wheelset New or Turned (C012): T

⋮

- * Certificate Number (C210): 28 - Brenco
- * New or Reconditioned (C211): N - New
- AAR Extended Bearing Code (C212):
- * Seal Type (C213): 8SKF0004 - SKF E2 LL
- * Grease Type (C214): SOEX0007 - Shell GadusRail S3 AAR AP 1.5
- * Cage Type (C215): 8AMS0003 - Brenco Steel
- * Backing Ring Type (C216): 8SKF0001 - SKF Natural Fitted
- Bearing Locking Plate Type (C217): AARX0001 - Standard Locking Plate
- Bearing Seal Wear Ring Type (C218):

Save Cancel

Note: The Component ID fields cannot be changed.

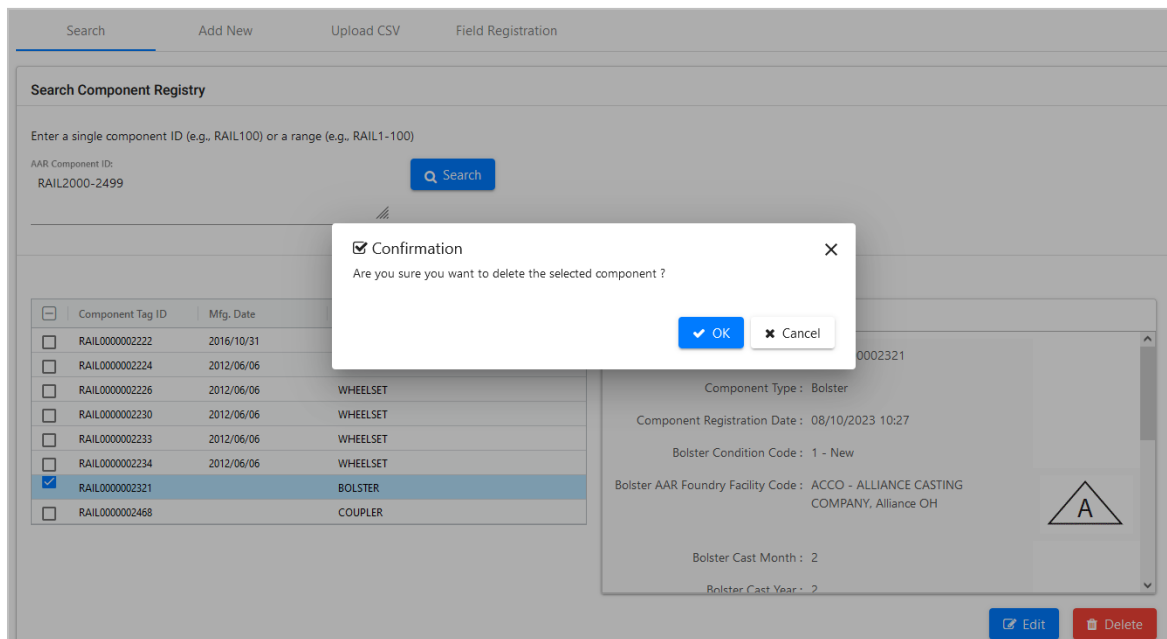
- When changes have been made to the component, select **Save** (either at top or bottom of interface). A confirmation message is displayed at the top of the interface. Select **Cancel** to exit.

Deleting Components

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

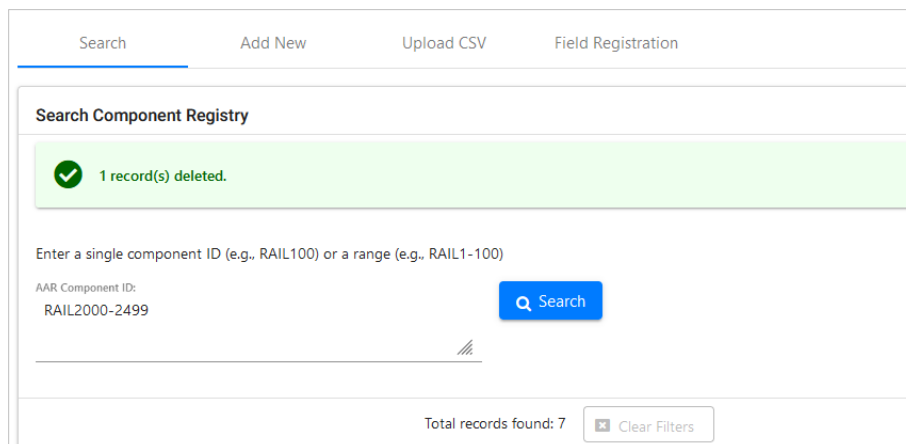
- After a successful search for components, check the box to the left of each component to be deleted, and select **Delete**. The Confirmation pop-up is displayed ([Exhibit 16](#)).

Exhibit 16. Delete Component Confirmation



- If unsure about the deletion, select **Cancel**. Otherwise, select **OK**. A success message is displayed below the page title ([Exhibit 17](#)).

Exhibit 17. Delete Component Success Message



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](#)).
2. Select **Component Registry > Registration**. The Search Component Registry tab page is displayed ([Exhibit 12](#)).
3. Select the **Add New** tab. The Add New Component to Registry page is displayed ([Exhibit 18](#)).

Exhibit 18. Add New Component to Registry

The screenshot shows the 'Add New Component to Registry' form. At the top, there are four tabs: 'Search', 'Add New', 'Upload CSV', and 'Field Registration'. The 'Add New' tab is selected. Below the tabs, the form is titled 'Add New Component to Registry'. It contains several input fields: 'AAR Component ID' (a greyed-out field), 'Company Code' (a dropdown menu with 'BRIC' selected), 'Component ID Number' (a text input field), and 'Component Type' (a dropdown menu with a list of options: BOLSTER, COUPLER, CUSHIONING UNIT, BRAKE VALVE CONTROL EMERGEN..., and PRESSURE RELIEF VALVE). A blue '+ Add' button is located at the bottom right of the form.

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 9), see the applicable component type section for details:
- [Add Bolsters](#)
 - [Add Couplers](#)
 - [Add Brake Valve Control Emergency](#)
 - [Add Brake Valve Control Service](#)
 - [Add Side Frames](#)
 - [Add Slack Adjusters](#)
 - [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 CAR, Mon... ▼	
* Manufacture Date (C304):	03/03/2013 <input type="text"/> (mm/dd/yyyy)	
* 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 ▼	
* 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 ([Exhibit 20](#)).

Exhibit 20. Add New Component to Registry Success Message

The screenshot shows a web application interface with a navigation bar at the top containing 'Search', 'Add New', 'Upload CSV', and 'Field Registration'. The 'Add New' tab is active. Below the navigation bar is a header 'Add New Component to Registry'. A green success message banner reads 'Component added to the Component Registry' with a checkmark icon and a close button. Below the banner is a form with the following fields: 'AAR Component ID:' (header), 'Company Code' (dropdown menu with 'RAIL' selected), 'Component ID Number' (text input with '0005897130' entered), and 'Component Type' (dropdown menu with 'BOLSTER' selected). At the bottom right of the form are two buttons: '+ Add New' and 'Edit'.

10. 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 [Search](#) and [Editing Components](#).

Add Bolsters

Exhibit 21. Add New Bolster

Search
Add New
Upload CSV
Field Registration

Add New Component to Registry

AAR Component ID:

Company Code
RAIL

Component ID Number
000008511

Component Type
BOLSTER

Save 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 Feature Code (C403): _____

Bolster AAR 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): _____

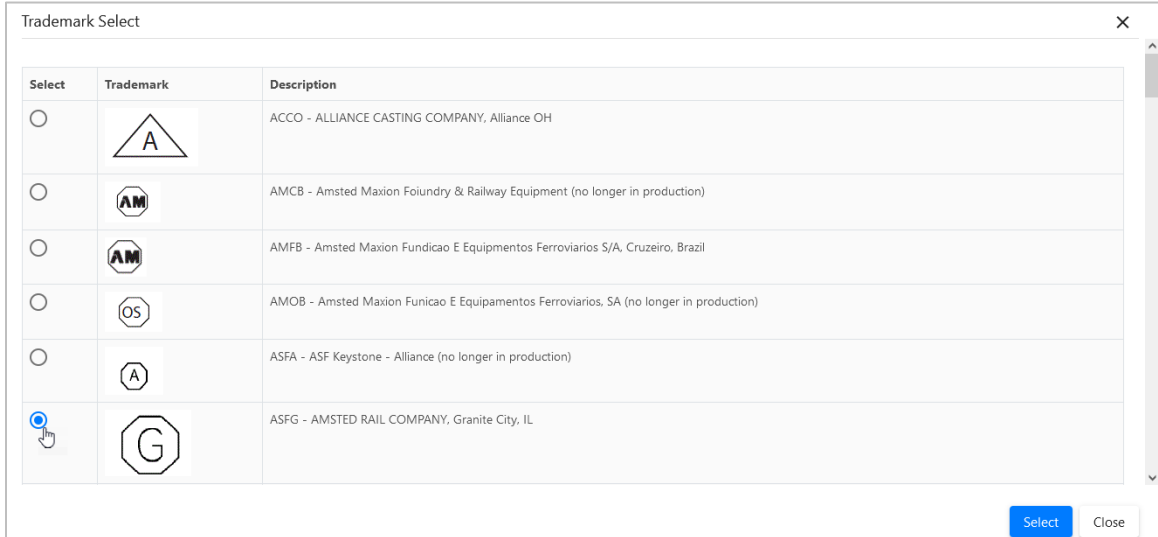
Component Defect Flag (C007): _____

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. [Exhibit 22](#) shows the **ASFG** company radio button selected.

Exhibit 22. Trademark Select



The screenshot shows a dialog box titled "Trademark Select" with a close button (X) in the top right corner. It contains a table with three columns: "Select", "Trademark", and "Description". The "ASFG" entry is selected, indicated by a blue radio button and a mouse cursor pointing to it.

Select	Trademark	Description
<input type="radio"/>		ACCO - ALLIANCE CASTING COMPANY, Alliance OH
<input type="radio"/>		AMCB - Amsted Maxion Foundry & Railway Equipment (no longer in production)
<input type="radio"/>		AMFB - Amsted Maxion Fundicao E Equipamentos Ferroviarios S/A, Cruzeiro, Brazil
<input type="radio"/>		AMOB - Amsted Maxion Funicao E Equipamentos Ferroviarios, SA (no longer in production)
<input type="radio"/>		ASFA - ASF Keystone - Alliance (no longer in production)
<input checked="" type="radio"/>		ASFG - AMSTED RAIL COMPANY, Granite City, IL

At the bottom right of the dialog box, there are two buttons: "Select" (highlighted in blue) and "Close".

- 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 [9](#) for Save instructions and troubleshooting.

Add Couplers

Exhibit 23. Add New Coupler

Add New Component to Registry

AAR Component ID:

Company Code
RAIL

Component ID Number
0000008511

Component Type
COUPLER

Base Elements

Component Registration Date (C010): _____

* Coupler Condition Code (C60): _____

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): _____


Coupler Conditional Approval (C608): _____

* Coupler AAR Facility Code (C609): _____ 

Coupler Heat Number (C610): _____

Coupler Heat Treat Load Number (C611): _____

Coupler Reconditioner AAR Facility Code (C612): _____


Coupler Classification Date (C613): _____  (mm/dd/yyyy)

Reconditioner Heat Treat Load Number (C614): _____

"RG" Marking Applied (C615): _____

C to E Conversion Tag Applied or Present (C616): _____

Component Defect Flag (C007): _____

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

Add Brake Valve Control Emergency

Exhibit 24. Add New Brake Valve Control Emergency

Add New Component to Registry

AAR Component ID:

Company Code
RAIL

Component ID Number
0000008511

Component Type
EMERVALVE

Save Cancel

Base Elements

Component Registration Date (C010):

* Condition Code (C701):

* AAR OEM/Recon Facility Code (C702):

* Date Tested (C703): (mm/dd/yyyy)

Serial Number (C704):

* Part Number (C705):

MFG Configuration Code (C706):

* Valve Type (C707):

Component Defect Flag (C007):

Save Cancel

1. Enter all required fields marked with a red asterisk (*).
2. Return to Step [9](#) for Save instructions and troubleshooting.

Add Brake Valve Control Service

Exhibit 25. Add New Brake Valve Control Service

Add New Component to Registry

AAR Component ID:

Company Code
RAIL

Component ID Number
0000008511

Component Type
SERVVALVE

Save Cancel

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 [9](#) for Save instructions and troubleshooting.

Add Side Frames

Exhibit 26. Add New Side Frame

Add New Component to Registry

AAR Component ID:

Company Code
RAIL


Component ID Number
000008511

Component Type
SIDEFRAME

Base Elements

Component Registration Date (C010): _____

* Side Frame Condition Code (C514): _____

* Side Frame AAR Foundry Facility Code (C501): _____ 

* 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): _____

MFG 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 (C513): _____  (mm/dd/yyyy)


* Column Wear Plate Installed (C515): _____

* Nominal Wheel Base (C516): _____

* Button Count (C517): _____

Increased Component Life (ICL) (C519): _____

Component Defect Flag (C007): _____

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

Add Slack Adjusters

Exhibit 27. Add New Slack Adjusters

Add New Component to Registry

AAR Component ID:

Company Code
8RIC

Component ID Number
000008511

Component Type
SLAKADJUST

Save Cancel

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/dd/yyyy)

Slack Adjuster AAR Group (C906):

* OEM Model Number (C907):

* Slack Adjuster Manufacturer (C908):

* Serial Number (C909):

MFG Configuration Code (C910):

Component Defect Flag (C007):

Save Cancel

1. Enter all required fields marked with a red asterisk (*).
2. Return to Step [9](#) for Save instructions and troubleshooting.

Add Wheelsets

Exhibit 28. Add New Wheelset - 1. Base Elements

Add New Component to Registry

AAR Component ID:

Company Code
RAIL

Component ID Number
8511

Component Type
WHEELSET

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 Facility Code (C003): _____

* Component Assembly Date (C004): _____ (mm/dd/yyyy)

* Component Assembly Time (C004): _____ (hh:mm)

Component Defect Flag (C007):

Component Registration Date (C010):

Purchased Core Turned (C011): _____

Wheelset New or Turned (C012):

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

Exhibit 29. Add New Wheelset - 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): _____

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): _____

4. Complete Section 3.1 and scroll to Section 3.2.

Exhibit 31. Add New Component - 3.2 Roller Bearing 1

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): _____
- * Nominal Length (C209): _____
- * Certificate Number (C210): _____
- * New or Reconditioned (C211): _____
- AAR Extended Bearing Code (C212): _____
- * Seal Type (C213): _____
- * Grease Type (C214): _____
- * Cage Type (C215): _____
- * Backing Ring Type (C216): _____
- Bearing Locking Plate Type (C217): _____
- Bearing Seal Wear Ring Type (C218): _____

5. Complete Section 3.2 and scroll to Section 4.

Exhibit 32. Add New Wheelset - 4.1 Wheel 2

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/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): _____

- 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.

Exhibit 33. Add New Wheelset - 4.2 Roller Bearing 2

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): _____

* Nominal Length (C209): _____

* Certificate Number (C210): _____

* New or Reconditioned (C211): _____

AAR Extended Bearing Code (C212): _____

* Seal Type (C213): _____

* Grease Type (C214): _____

* Cage Type (C215): _____

* Backing Ring Type (C216): _____

Bearing Locking Plate Type (C217): _____

Bearing Seal Wear Ring Type (C218): _____

Save Cancel

- When Bearing 2 is the same as Bearing 1, check the box for **Bearing 2 same as Bearing 1** to automatically fill the fields.
- Return to Step [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
RAIL

Component ID Number
000008511

Component Type
PRVALVE

Save Cancel

Base Elements

Component Registration Date (C010): _____

* PRV Condition Code (D101): _____

* AAR Tank Car Facility Code (D102): _____

* Original Manufacturer (MFG) Facility Code (D103): _____

* PRV Base Model Number (D104): _____

Manufacturer Part Number (Original) (D105): _____

* Body Material (D106): _____

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/yyyy)

* PRV Start-to-Discharge Pressure (As Tested) (D114): _____

* PRV Vapor Tight Pressure (As Tested) (D115): _____

* O-Ring/Seal Material Applied (As Tested) (D116): _____

AAR Group (D117): _____

* Certifier ID (D118): _____

Component Defect Flag (C007): _____

Save Cancel

1. Enter all required fields marked with a red asterisk (*).
2. Return to Step [9](#) for Save instructions and troubleshooting.

Add Cushioning Unit

Exhibit 35. Add New Cushioning Unit

Add New Component to Registry

AAR Component ID:

Company Code
RAIL

Component ID Number
000008511

Component Type
CUSHUNIT

Save Cancel

Base Elements

Component Registration Date (C010):

* Condition Code (D201):

* AAR OEM/Recon Facility Code (D202):

Manufacture Year (D203):

Manufacture Month (D204):

Reconditioned Date (D205):

* Manufacturer (D206):

* Serial Number (D207):

* OEM Model Number (D208):

* AAR Specification (D209):

* Travel Length (D210):

Component Defect Flag (C007):

Save Cancel

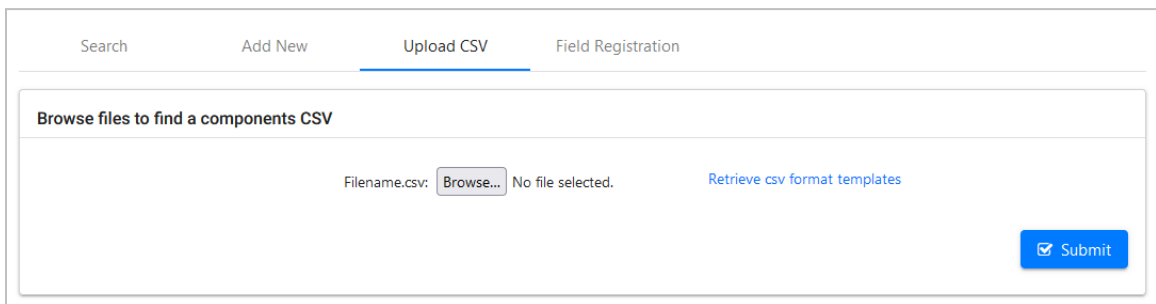
1. Enter all required fields marked with a red asterisk (*).
2. Return to Step [9](#) for Save instructions and troubleshooting.

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](#)).
2. Select **Component Registry > Registration**. The Search Component Registry tab page is displayed ([Exhibit 12](#)).
3. Select the **Upload CSV** tab. **Browse files to find a components CSV** is displayed ([Exhibit 36](#)).

Exhibit 36. Browse Files to Find a Components CSV

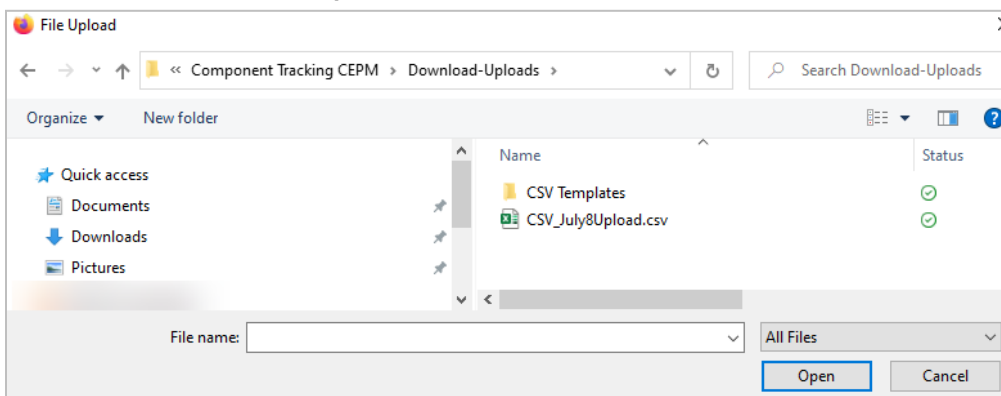


To prepare your files for upload, you can use formatted templates available on Railinc's [Component Tracking page](#). Select the **Retrieve csv format templates** link in the application and select the [CSV Templates zip file](#) in the **Related Documents** section to open or save the templates ([Exhibit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

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

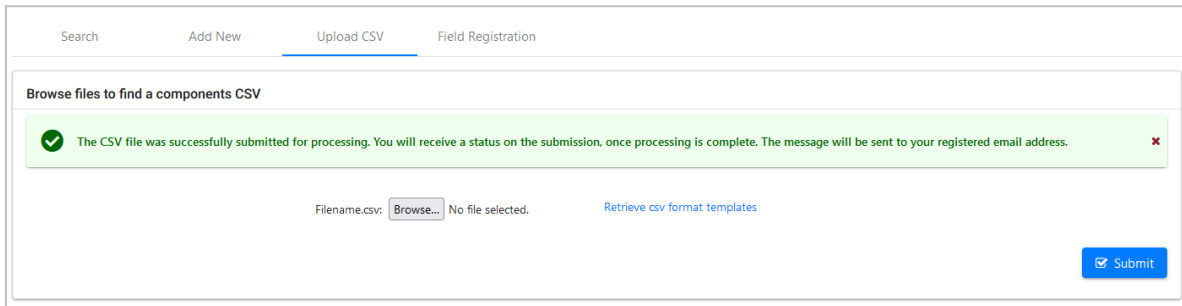
4. Select the **Browse** button to locate a file on your computer upload ([Exhibit 37](#)).

Exhibit 37. Choose File For Upload



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 ([Exhibit 38](#)). If the upload is successful, you'll receive a green message at the top letting you know if your file has been successfully submitted.

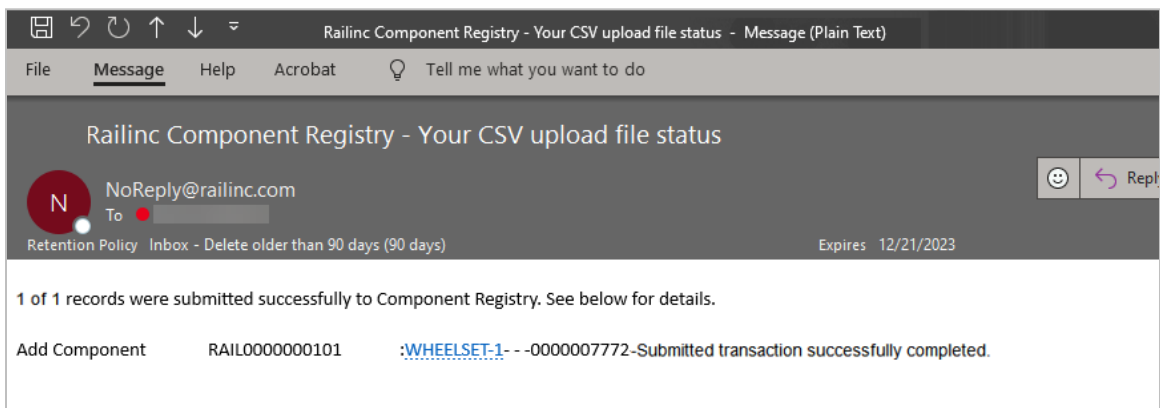
Exhibit 38. Successful Components Upload



The screenshot shows the 'Upload CSV' tab in a web application. At the top, there are navigation tabs: Search, Add New, Upload CSV (selected), and Field Registration. Below the tabs is a section titled 'Browse files to find a components CSV'. A green message box with a checkmark icon states: 'The CSV file was successfully submitted for processing. You will receive a status on the submission, once processing is complete. The message will be sent to your registered email address.' Below the message, there is a 'Filename.csv:' label, a 'Browse...' button, and the text 'No file selected.' To the right, there is a link 'Retrieve csv format templates'. At the bottom right, there is a blue 'Submit' button with a checkmark icon.

7. Check your email for a notification from the system with the status of the records you submitted ([Exhibit 39](#)).

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 [Search](#).

CSV Registration Upload File Preparation

Exhibit 40. Registration CSV Upload Template in Excel

TransactionType	ComponentID	ComponentType	BASE-C003	BASE-C004	BASE-C011	AXLE:1-C303	AXLE:1-C304	AXLE:1-C305	AXLE:1-C3	AXLE:1-C306
AC	RAIL0000000101	WHEELSET	AADC	20220607 08:00	N	ABG	20220215 08:00	6.5	12	
CC	RAIL0000000102	WHEELSET	BNN	20220607 08:00	N	CNW	20220215 08:00	6.5	12	
DC	RAIL0000000103	WHEELSET	CNW	20220607 08:00	Y	GUNW	20220215 08:00	6.5	12	

The fields are as described in the online Element Help links and in the [Umler Component Tracking Data Specifications Manual](#) available on the [Umler product page](#).

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

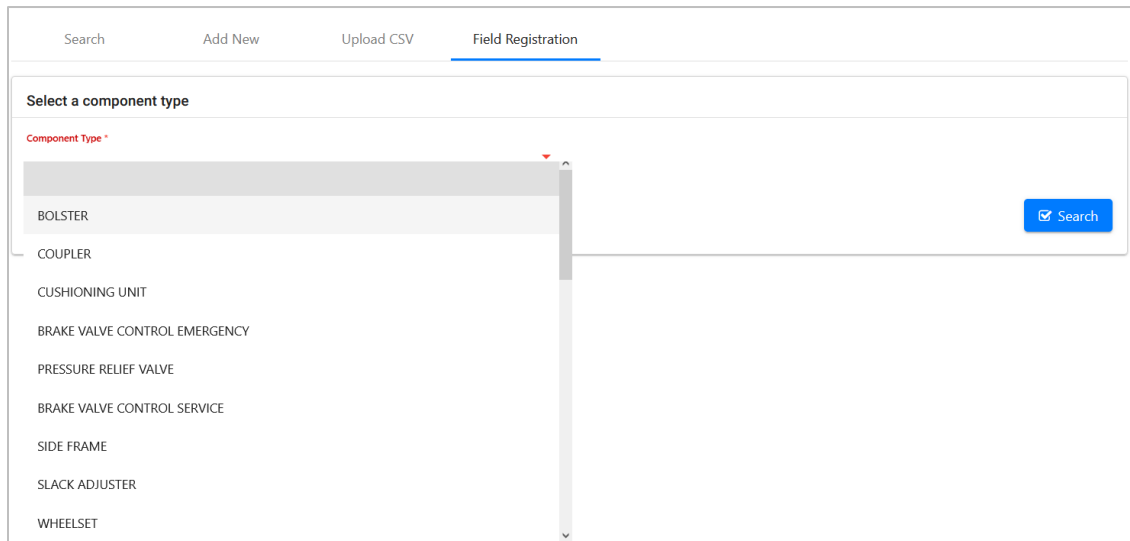
- Notes:**
- Your uploaded file can contain all three types of transactions.
 - Large text entries should not contain commas (which are interpreted as field delimiters). Use dashes or other keyable characters.
 - Changes require a Component ID and only those fields with changes (other fields are left untouched).
 - Deletions require a Component ID only.
 - Adds must contain all mandatory fields.
 - For more information, see [Umler Bulk Upload Transactions CSV File Specifications](#). Also available on the [Umler product page](#).

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 [Component Tracking Data Specifications Manual](#) 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



The screenshot shows a web interface with a navigation bar containing 'Search', 'Add New', 'Upload CSV', and 'Field Registration'. The 'Field Registration' tab is active. Below the navigation bar is a section titled 'Select a component type'. A dropdown menu is open, showing a list of component types: BOLSTER, COUPLER, CUSHIONING UNIT, BRAKE VALVE CONTROL EMERGENCY, PRESSURE RELIEF VALVE, BRAKE VALVE CONTROL SERVICE, SIDE FRAME, SLACK ADJUSTER, and WHEELSET. A blue 'Search' button is located to the right of the dropdown list.

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

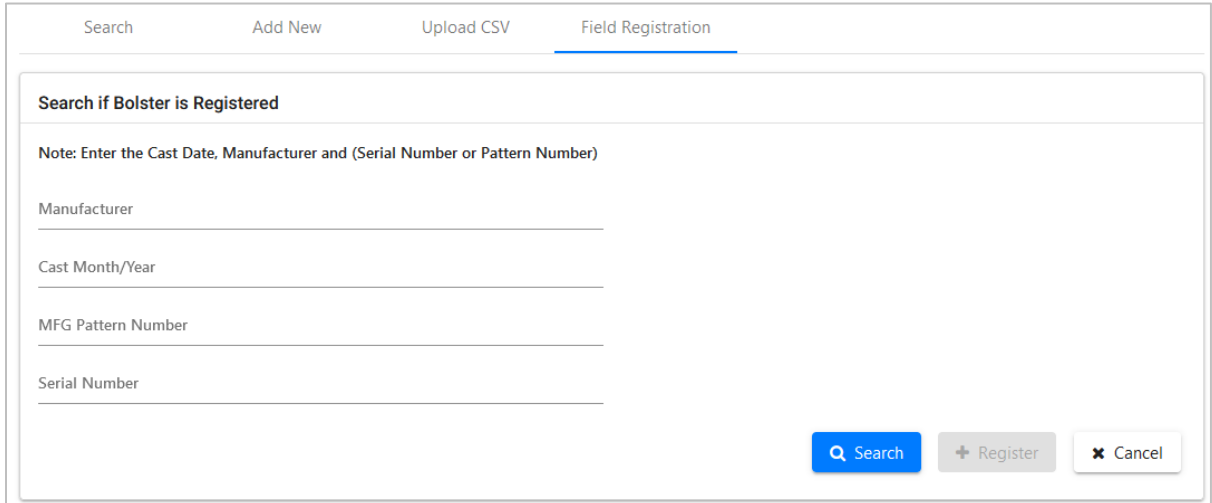
- [Bolsters](#)
- [Couplers](#)
- [Brake Valve Control Emergency](#)
- [Brake Valve Control Service](#)
- [Sideframe](#)
- [Slack Adjuster](#)
- [Wheelsets](#)
- [Cushioning Units](#)

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

Bolsters

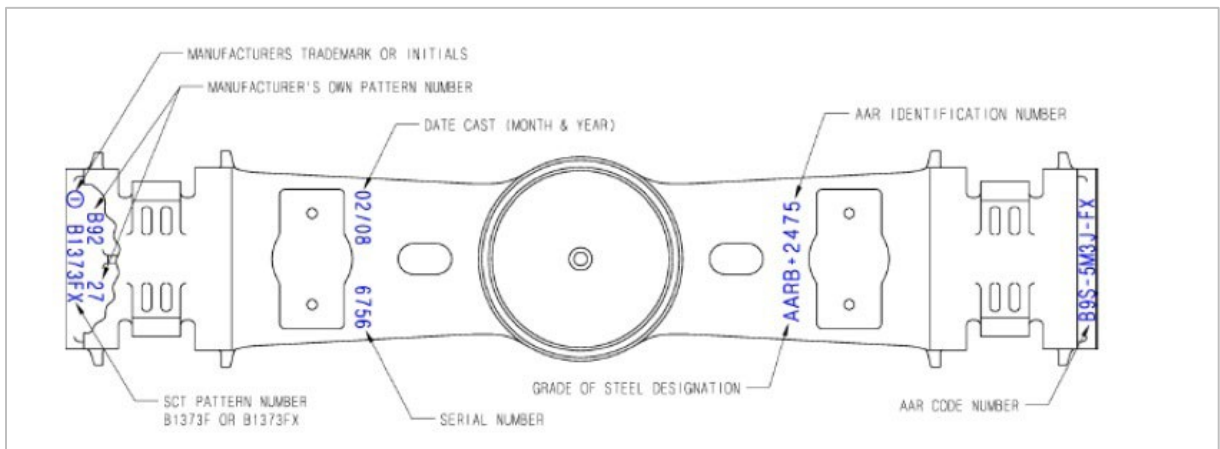
1. The Search if Bolster is Registered page displays.

Exhibit 42. Search if Bolster is Registered



[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 ([Exhibit 44](#)), no field registration is necessary and the bolster can be associated with the Equipment ID as described in [Bolster Association](#).

Exhibit 44. Field Registration Search Showing Component Found

Search
Add New
Upload CSV
Field Registration

Search if Bolster is Registered

Note: Enter the Cast Date, Manufacturer and (Serial Number or Pattern Number)

Manufacturer
ASFG

Cast Month/Year
04/12

MFG Pattern Number
123456780000

Serial Number

🔍 Search
+ Register
✕ Cancel

Component ID	Manufacture	Cast Month/Year	AAR Design Feature Code	MFG Pattern Number	Serial Number	Component Registration Date
BRIC0003491764	ASFG	4/12	BOL-000-0001	123456780000	B35520000A	09/22/2023 22:09

- b. If no matching component is found ([Exhibit 45](#)), select **Register**. The Field Registration Elements tab is displayed ([Exhibit 46](#)).

Exhibit 45. Field Registration Search With Component Not Found

Search
Add New
Upload CSV
Field Registration

Search if Bolster is Registered

⚠️ Your search parameters did not match a component currently registered in the Umler Component Registry. Please click Register to complete a Field Registration. ✕

Note: Enter the Cast Date, Manufacturer and (Serial Number or Pattern Number)

Manufacturer
ASFG

Cast Month/Year
04/12

MFG Pattern Number
123456780000

Serial Number
B35520000A

🔍 Search
+ Register
✕ Cancel

Exhibit 46. Bolster Field Registration Elements

Search
Add New
Upload CSV
Field Registration

Please fill in the following information to complete a field registration.

Field Registration Elements

Component Registration Date (C010):

Bolster Condition Code (C414): _____ ▾

* Bolster AAR Foundry Facility Code (C401): ASFG - AMSTED RAIL COMPANY, Granite City, IL ▾ 🔍

* Bolster Cast Month (C402): 04 _____

* Bolster Cast Year (C417): 12 _____

* AAR Design Feature Code (C403): _____

Bolster AAR ID Code (C404): _____

* MFG Pattern Number (C405): 123456780000 _____

MFG Serial Number (C408): B35520000A _____

* Wear Plate Installed by Foundry / Reconditioner (C415): Y - Yes ▾

Increased Component Life (ICL) (C418): _____ ▾

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 ([Exhibit 47](#)).

Exhibit 47. Bolster Field Registration With Error

Search
Add New
Upload CSV
Field Registration

Please fill in the following information to complete a field registration.

⚠ Transaction failed due to validation errors, see below for details. ✖

Field Registration Elements

Component Registration Date (C010):

Bolster Condition Code (C414):

* Bolster AAR Foundry Facility Code (C401): ASFG - AMSTED RAIL COMPANY, Granite City, IL 🔍

* Bolster Cast Month (C402):

* Bolster Cast Year (C417):

* AAR Design Feature Code (C403): AAR Design Feature Code must begin with B,Invalid for Mandatory Elements

Bolster AAR ID Code (C404):

* MFG Pattern Number (C405):

MFG Serial Number (C408):

* Wear Plate Installed by Foundry / Reconditioner (C415):

Increased Component Life (ICL) (C418):

In [Exhibit 47](#), a mandatory field was not completed.

- b. When validation is successful, Component Tracking generates a unique bolster component ID ([Exhibit 48](#)).

Exhibit 48. Successful Bolster Field Registration

The screenshot shows a web interface for field registration. At the top, there are navigation tabs: Search, Add New, Upload CSV, and Field Registration (which is active). Below the tabs, a message states: "Please fill in the following information to complete a field registration." A green success message at the top reads: "Component added to the Component Registry 8RIC0003491764". To the right of this message are buttons for "+ Add New" and "Edit".

The main section is titled "Field Registration Elements" and contains the following fields:

- Component Registration Date (C010):
- Bolster Condition Code (C414):
- * Bolster AAR Foundry Facility Code (C401): ASFG - AMSTED RAIL COMPANY, Granite City, IL
- * Bolster Cast Month (C402): 04
- * Bolster Cast Year (C417): 12
- * AAR Design Feature Code (C403): BOL-000-0001
- Bolster AAR ID Code (C404):
- * MFG Pattern Number (C405): 1234567B0000
- MFG Serial Number (C408): B35520000A
- * Wear Plate Installed by Foundry / Reconditioner (C415): Y - Yes
- Increased Component Life (ICL) (C418):

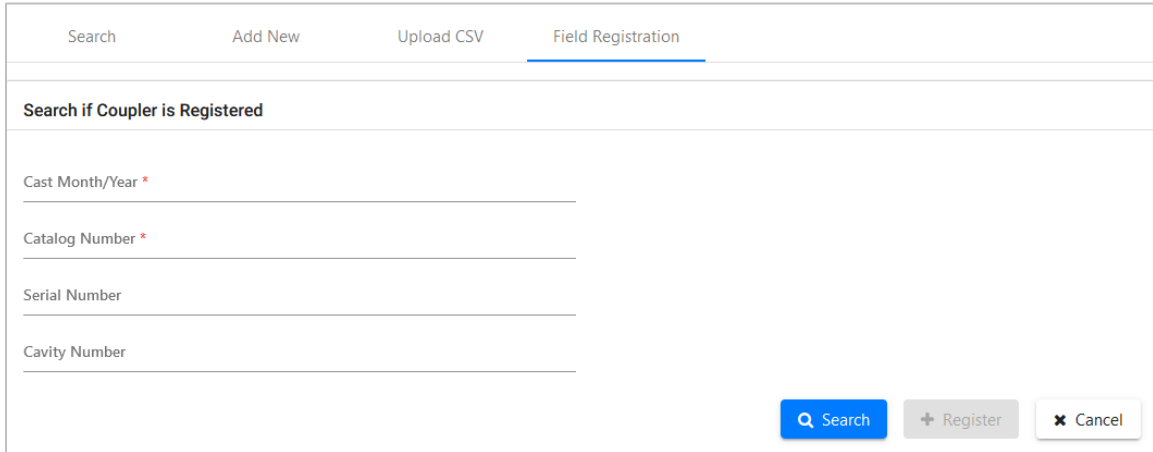
At the bottom of the form, there is an "Equipment ID" field and an "Associate" button.

- c. In [Exhibit 48](#), 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 [Bolster Association](#).
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 ([Exhibit 42](#)).

Couplers

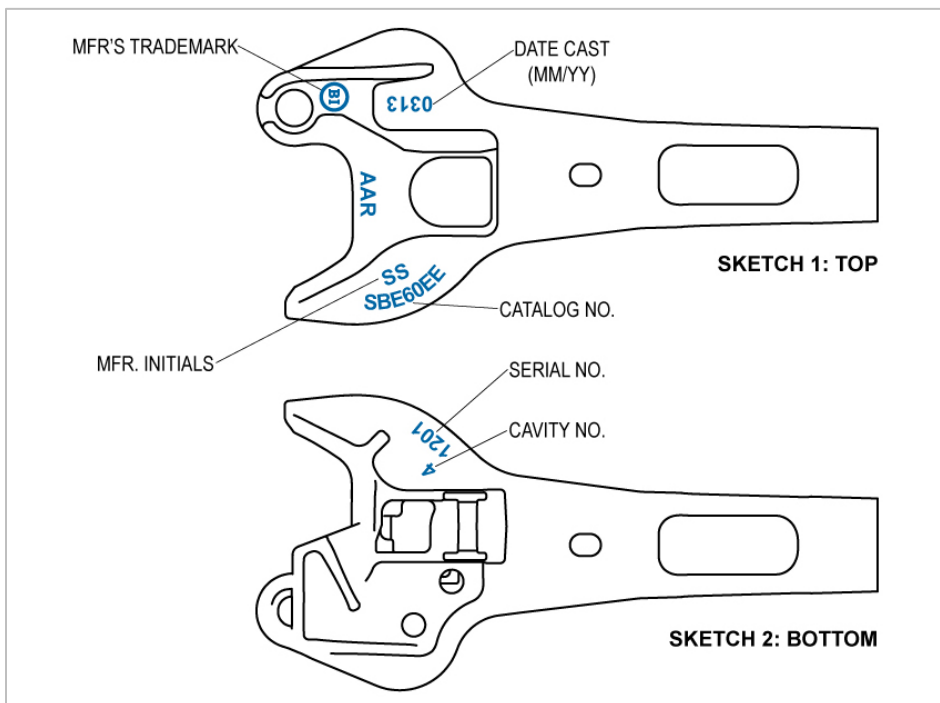
1. The Search if Coupler is Registered page displays.

Exhibit 49. Search if Coupler is Registered



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

Exhibit 51. Coupler Field Registration Elements

Please fill in the following information to complete a field registration.

Field Registration Elements

Component Registration Date (C010): _____

Coupler Condition Code (C601): _____

* Coupler Catalog Number (C603): ASFGCOUPD

* Coupler Cast Month (C604): 07

* Coupler Cast Year (C605): 13

Coupler Serial Number (C606): CP00AABB

Coupler Cavity Number (C607): _____

Coupler Conditional Approval (C608): _____

* Coupler AAR Facility Code (C609): _____

Coupler Classification Date (C613): _____ (mm/dd/yyyy)

"RG" Marking Applied (C615): _____

C to E Conversion Tag Applied 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 ([Exhibit 52](#)).

Exhibit 52. Successful Coupler Field Registration

The screenshot shows a web interface for field registration. At the top, there are navigation tabs: Search, Add New, Upload CSV, and Field Registration (which is active). Below the tabs, a message states: "Please fill in the following information to complete a field registration." A green success message reads: "Component added to the Component Registry 8RIC0003491766". To the right of this message are two buttons: "+ Add New" and "Edit".

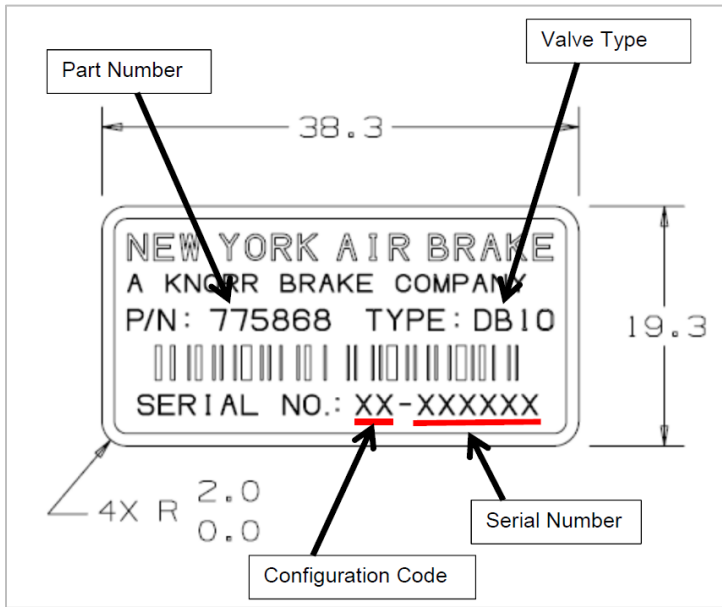
The main section is titled "Field Registration Elements" and contains the following fields:

- Component Registration Date (C010):
- Coupler Condition Code (C601):
- * Coupler Catalog Number (C603): ASFGCOUPD
- * Coupler Cast Month (C604): 07
- * Coupler Cast Year (C605): 13
- Coupler Serial Number (C606): CP00AABB
- Coupler Cavity Number (C607):
- Coupler Conditional Approval (C608):
- * Coupler AAR Facility Code (C609): SSBI - SIVYER STEEL CORPORATION, Bettendorf, IA
- Coupler Classification Date (C613): (mm/dd/yyyy)
- "RG" Marking Applied (C615):
- C to E Conversion Tag Applied or Present (C616): Y - Yes

At the bottom of the form, there is an "Equipment ID" field and an "Associate" button.

- c. In [Exhibit 52](#), 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 [Coupler Association](#).
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 ([Exhibit 49](#)).

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 [Exhibit 44](#)), no field registration is necessary and the brake valve control emergency can be associated with the Equipment ID as described in [Brake Value Control Emergency Association](#).
 - b. If no matching component is found (similar to [Exhibit 45](#)), select **Register**. The Field Registration Elements page is displayed ([Exhibit 56](#)).

Exhibit 56. Brake Valve Control Emergency Field Registration Elements

The screenshot shows a web form titled "Field Registration" with the following fields and controls:

- Navigation tabs: Search, Add New, Upload CSV, Field Registration (selected)
- Section header: Search if Emervalue is Registered
- Instruction: Facility Code, Part Number and Valve Type are required
- Fields:
 - Reconditioner Facility Code * (text input): GMWS
 - Date Valve Tested (calendar icon)
 - Serial Number (text input)
 - Part Number * (text input): 54
 - Valve Type * (dropdown menu): ABDS - ABDS-Emergency
- Buttons: Search (blue), Register (grey), Cancel (grey)

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

The screenshot displays the 'Field Registration' form in a web application. At the top, there are navigation tabs: 'Search', 'Add New', 'Upload CSV', and 'Field Registration'. Below the tabs, a message states: 'Please fill in the following information to complete a field registration.' A green success message at the top reads: 'Component added to the Component Registry 8RIC0003491768'. Below this, there are two buttons: '+ Add New' and 'Edit'. The main form area is titled 'Field Registration Elements' and contains the following fields:

- Component Registration Date (C010):
- * Condition Code (C701): 1 - New
- * AAR OEM/Recon Facility Code (C702): GMWS - GRAHAM-WHITE MANUFACTURING CO...
- * Date Tested (C703): 01/14/2015 (mm/dd/yyyy)
- Serial Number (C704):
- * Part Number (C705): 54
- MFG Configuration Code (C706):
- * Valve Type (C707): ABDS - ABDS-Emergency

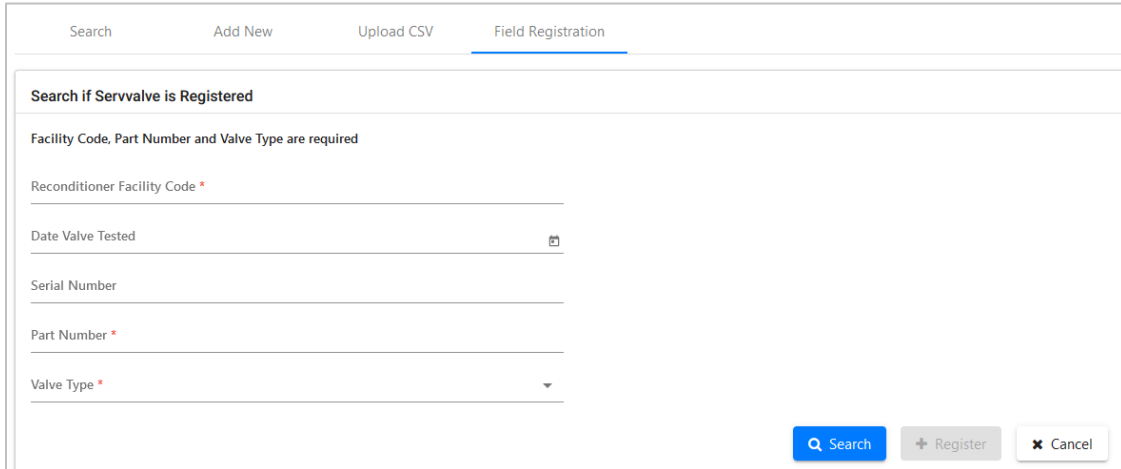
At the bottom of the form, there is an 'Equipment ID' field and an 'Associate' button.

- c. In [Exhibit 57](#), 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.

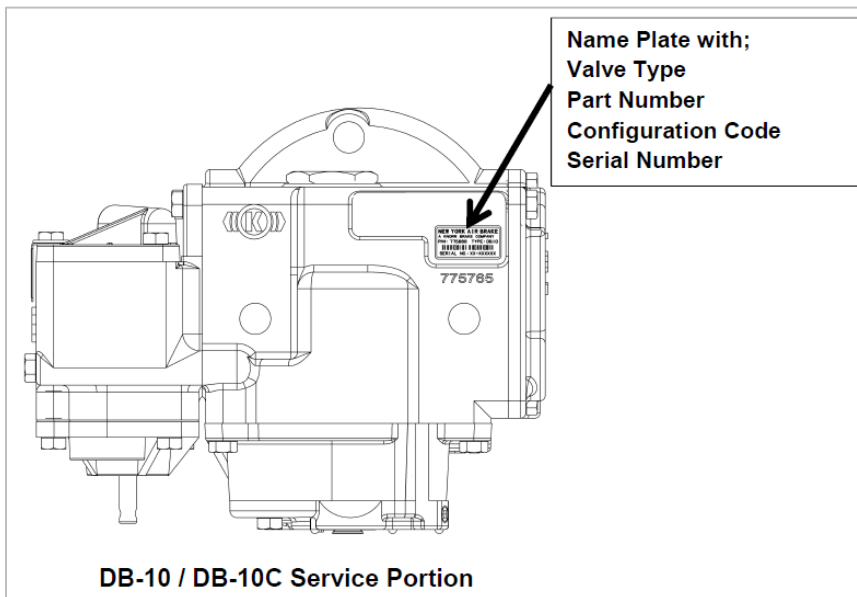
Exhibit 58. Search if Servvalve is Registered



The screenshot shows a web application interface with a navigation bar at the top containing 'Search', 'Add New', 'Upload CSV', and 'Field Registration'. The 'Field Registration' tab is active. Below the navigation bar, the page title is 'Search if Servvalve is Registered'. A message states 'Facility Code, Part Number and Valve Type are required'. The form includes several input fields: 'Reconditioner Facility Code *', 'Date Valve Tested' (with a calendar icon), 'Serial Number', 'Part Number *', and 'Valve Type *' (a dropdown menu). At the bottom right, there are three buttons: 'Search' (blue), 'Register' (grey), and 'Cancel' (grey).

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

Exhibit 60. Brake Valve Control Service Field Registration Elements

Please fill in the following information to complete a field registration.

Field Registration Elements

Component Registration Date (C010):

* Condition Code (C801):

* AAR OEM/Recon Facility Code (C802): EN - ELLCON NATIONAL, Greenville, SC U.S.A.

* Date Tested (C803): 01/22/2015 (mm/dd/yyyy)

Serial Number (C804):

* Part Number (C805): 3

MFG Configuration Code (C806):

* Valve Type (C807): ABD - ABD-Service

Save 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 [Exhibit 47](#)).
 - b. If validation is successful, Component Tracking generates a unique brake valve control service component ID ([Exhibit 61](#)).

Exhibit 61. Successful Brake Valve Control Service Field Registration

The screenshot shows a web interface for field registration. At the top, there are navigation tabs: Search, Add New, Upload CSV, and Field Registration (which is active). Below the tabs, a message box with a green checkmark states: "Component added to the Component Registry 8RIC0003491769". To the right of this message are two buttons: "+ Add New" and "Edit". Below the message is a section titled "Field Registration Elements" containing the following fields:

- Component Registration Date (C010):
- * Condition Code (C801): 3 - Reconditioned
- * AAR OEM/Recon Facility Code (C802): EN - ELLCON NATIONAL, Greenville, SC U.S.A.
- * Date Tested (C803): 01/22/2015 (mm/dd/yyyy)
- Serial Number (C804):
- * Part Number (C805): 3
- MFG Configuration Code (C806):
- * Valve Type (C807): ABD - ABD-Service

At the bottom of the form, there is an "Equipment ID" field and an "Associate" button.

- c. In [Exhibit 61](#), 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 [Brake Value Control Service Association](#).
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 ([Exhibit 58](#)).

Slack Adjuster

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

Exhibit 62. Search if Slack Adjuster is Registered

[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

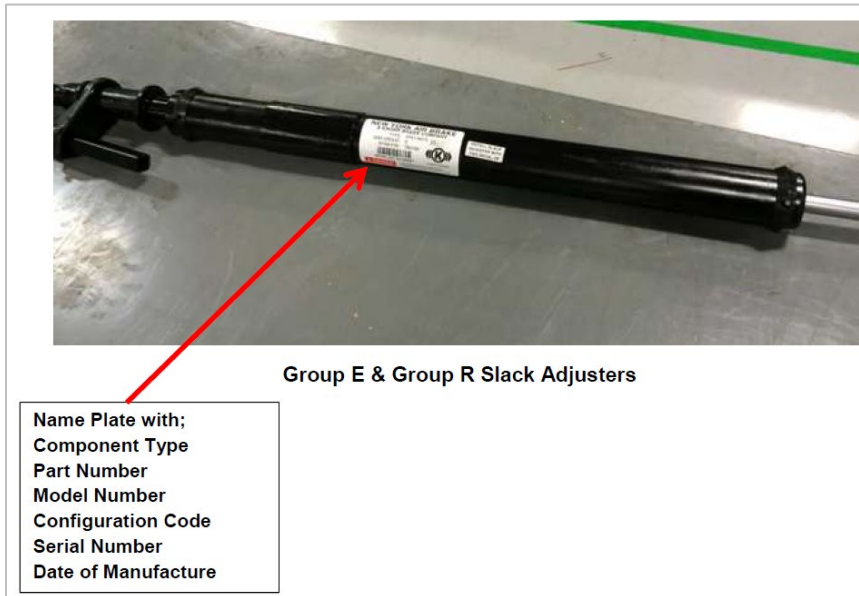
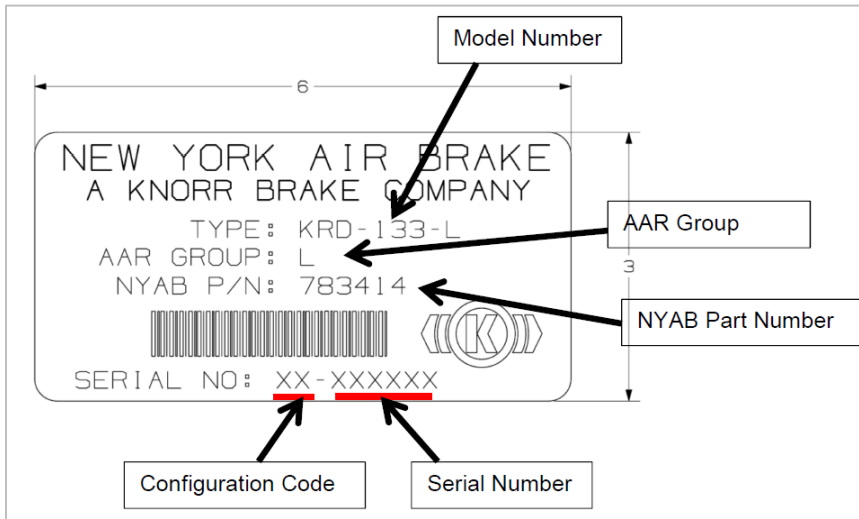


Exhibit 64. Slack Adjuster Name Plate

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 [Exhibit 45](#)), 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 [Exhibit 47](#)).
 - b. If validation is successful, Component Tracking generates a unique slack adjuster component ID ([Exhibit 65](#)).

Exhibit 65. Successful Slack Adjuster Field Registration

The screenshot shows a web interface for field registration. At the top, there are navigation tabs: Search, Add New, Upload CSV, and Field Registration (which is selected). Below the tabs, a message states: "Please fill in the following information to complete a field registration." A green success message box displays: "Component added to the Component Registry 8RIC0003491770". To the right of this message are "+ Add New" and "Edit" buttons. Below this is a section titled "Field Registration Elements" containing the following fields:

- Component Registration Date (C010):
- * Slack Adjuster Condition Code (C901): 1 - New
- AAR OEM/Recon Facility Code (C902): CWE - CARDWELL WESTINGHOUSE COMPANY, ...
- Slack Adjuster Stamped Year (C903): 20
- Slack Adjuster Stamped Month (C904): 04
- Slack Adjuster Recondition Date (C905): (mm/dd/yyyy)
- Slack Adjuster AAR Group (C906): E - Group E
- * OEM Model Number (C907): KR-D-133L - KR-D-133L
- * Slack Adjuster Manufacturer (C908): NY - New York Air Brake Co
- Serial Number (C909):
- MFG Configuration Code (C910):

At the bottom of the form, there is an "Equipment ID" field and an "Associate" button.

- c. In [Exhibit 65](#), 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 [Slack Adjuster Association](#).

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 ([Exhibit 62](#)).

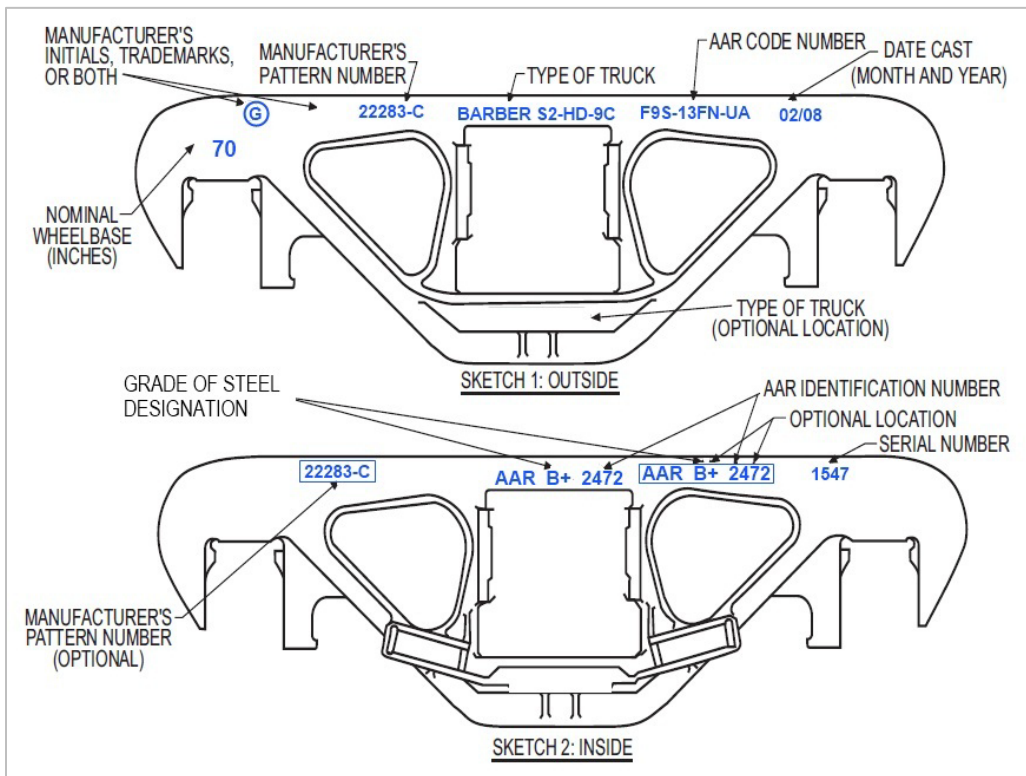
Sideframe

1. The Search if Sideframe is Registered page displays.

Exhibit 66. Search if Sideframe is Registered

[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 [Exhibit 44](#)), no field registration is necessary and the side frame can be associated with the Equipment ID as described in [Side Frame Association](#).
 - b. If no matching component is found (see example in [Exhibit 45](#)), select **Register**. The Field Registration Elements page is displayed ([Exhibit 68](#)).

Exhibit 68. Sideframes Field Registration Elements

The screenshot shows a web application interface for field registration. At the top, there are four tabs: 'Search', 'Add New', 'Upload CSV', and 'Field Registration', with 'Field Registration' being the active tab. Below the tabs, a message reads: 'Please fill in the following information to complete a field registration.' The main form area is titled 'Field Registration Elements' and contains the following fields:

- Component Registration Date (C010): [Empty text input]
- Side Frame Condition Code (C514): [Dropdown menu]
- * Side Frame AAR Foundry Facility Code (C501): [Text input with a trademark lookup icon (Q)]
- * Side Frame Cast Month (C502): [Text input with value '07']
- * Side Frame Cast Year (C518): [Text input with value '23']
- * AAR Design Feature Code (C503): [Text input]
- Side Frame AAR ID Code (C504): [Text input]
- * MFG Pattern Number (C505): [Text input with value 'ASGFSIDE0888']
- MFG Serial Number (C508): [Text input]
- * Column Wear Plate Installed (C515): [Dropdown menu]
- * Nominal Wheel Base (C516): [Dropdown menu]
- * Button Count (C517): [Dropdown menu]
- Increased Component Life (ICL) (C519): [Dropdown menu]

At the bottom right of the form, there are two buttons: 'Save' and 'Cancel'.

5. Select the trademark lookup icon (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

The screenshot shows the 'Field Registration' page in a web application. At the top, there are navigation tabs: 'Search', 'Add New', 'Upload CSV', and 'Field Registration' (which is active). Below the tabs, a message states: 'Please fill in the following information to complete a field registration.' A green success message box displays: 'Component added to the Component Registry 8RIC0003491772'. To the right of this message are two buttons: '+ Add New' and 'Edit'. Below the message is a section titled 'Field Registration Elements' containing a list of fields with their values:

- Component Registration Date (C010):
- Side Frame Condition Code (C514):
- * Side Frame AAR Foundry Facility Code (C501): ASFG - AMSTED RAIL COMPANY, Granite ...
- * Side Frame Cast Month (C502): 07
- * Side Frame Cast Year (C518): 23
- * AAR Design Feature Code (C503): F999-999-123
- Side Frame AAR ID Code (C504):
- * MFG Pattern Number (C505): ASGFSIDE0888
- MFG Serial Number (C508):
- * Column Wear Plate Installed (C515): Y - Yes
- * Nominal Wheel Base (C516): 70 - 70 inches
- * Button Count (C517): 2 - 2 buttons
- Increased Component Life (ICL) (C519):

At the bottom of the form, there is an 'Equipment ID' field and an 'Associate' button.

- c. In [Exhibit 69](#), 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 [Sideframe Association](#).
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 ([Exhibit 66](#)).

Wheelsets

1. The Search if Wheelset is Registered page displays.

Exhibit 70. Search if Wheelset is Registered

The screenshot shows a web interface with a navigation bar at the top containing 'Search', 'Add New', 'Upload CSV', and 'Field Registration'. The 'Field Registration' tab is active. Below the navigation bar is a form titled 'Search if Wheelset is Registered'. The form contains five input fields: 'Wheel Serial Number *', 'Wheel Stamped Manufacturer Code *', 'Wheel Stamped Month/Stamped Year', 'Wheel Nominal Diameter', and 'Wheel Design Code'. At the bottom right of the form are three buttons: a blue 'Search' button with a magnifying glass icon, a grey '+ Register' button, and a grey 'x Cancel' button.

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 [Exhibit 44](#)), no field registration is necessary and the wheelset can be associated with the Equipment ID as described in [Wheelset Association](#).
 - b. If no matching component is found (see example in [Exhibit 45](#)), select **Register**. The Field Registration page is displayed ([Exhibit 71](#)).

Exhibit 71. Wheelset Field Registration – Section 1-2

The screenshot shows a web interface for field registration. At the top, there are navigation tabs: Search, Add New, Upload CSV, and Field Registration (which is active). Below the tabs, a message reads: "Please fill in the following information to complete a field registration." The form is divided into two main sections:

- 1. Wheelset:** This section contains four input fields:
 - * AAR Facility Code (C003): A dropdown menu with a magnifying glass icon.
 - * Applied Job Code: A text input field.
 - * Condition Code: A text input field.
 - Component Registration Date (C010): A date selection field.
- 2. Axle:** This section contains two input fields:
 - * Applied Job Code: A text input field.
 - * Condition Code: A text input field.

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 (🔍) to select the matching code ([Exhibit 72](#)).

Exhibit 72. MID Search

The screenshot shows a "MID Search" dialog box. It has a search type dropdown set to "Contains", a "MID Code" input field containing "A", and an empty "QA Code" input field. There are "Clear" and "Search" buttons. Below the input fields, it says "Showing 21 entries." and displays a table of results:

<input type="checkbox"/>	MID CODE	QA CODE
<input type="checkbox"/>	AAXS	AMIS
<input type="checkbox"/>	ACXH	ACWV
<input type="checkbox"/>	AL	AL
<input type="checkbox"/>	AMAR	ARNY
<input type="checkbox"/>	AMPG	APG

At the bottom right of the dialog, there are "Select" and "Close" buttons.

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. Wheel Group 2

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: _____

Save Cancel

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 [6](#).
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 [7](#).

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

 Transaction failed due to validation errors, see below for details.
 Invalid Axle Job Code ✖

Please fill in the following information to complete a field registration.

1. Wheelset

* AAR Facility Code (C003): Q

* Applied Job Code:

* Condition Code:

Component Registration Date (C010):

2. Axle


* Applied Job Code: Invalid Axle Job Code

* Condition 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 Registration was successful. Here is your component ID:8RIC0003491952 ✖

+ Register Another

Please fill in the following information to complete a field registration.

1. Wheelset

* AAR Facility Code (C003): Q

* Applied Job Code:

* Condition Code:

Component Registration Date (C010):

2. Axle

* Applied Job Code:

- c. In [Exhibit 76](#), 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 [Wheelset Association](#).
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

The screenshot shows a web interface with a navigation bar at the top containing 'Search', 'Add New', 'Upload CSV', and 'Field Registration'. The 'Field Registration' tab is active. Below the navigation bar is a form titled 'Search if Cushunit is Registered'. The form contains the following fields:

- Note:** Enter the Condition and Manufacturer
- Condition Code ***: A drop-down menu.
- Manufacture Month**: A text input field.
- Manufacture Year**: A text input field.
- Reconditioned Date**: A text input field.
- Manufacturer ***: A drop-down menu.
- Serial Number**: A text input field.
- Model Number**: A text input field.

At the bottom right of the form are three buttons: a blue 'Search' button with a magnifying glass icon, a grey '+ Register' button, and a grey 'x Cancel' button.

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 ([Exhibit 78](#)), no field registration is necessary and the cushioning unit can be associated with the Equipment ID as described in [Cushioning Unit Association](#).

Exhibit 78. Cushioning Unit Field Registration Search With Component Found

Search
Add New
Upload CSV
Field Registration

Search if Cushunit is Registered

Note: Enter the Condition and Manufacturer

Condition Code *
1 - New

Manufacture Month
05

Manufacture Year
05

Reconditioned Date

Manufacturer *
AHO - AHO

Serial Number

Model Number

🔍 Search
+ Register
✕ Cancel

Component ID	Condition Code	Manufacturer	Month	Year	Reconditioned Date	Model Number	AAR Specification	Serial Number	Travel Length	Component Registration Date
RAIL0451982366	1	AHO	5	5		15MC5FT	M-921D	RAH08Z123456789	10	09/25/2023 08:07

- b. If no matching component is found ([Exhibit 79](#)), select **Register**. The Field Registration Elements page is displayed ([Exhibit 80](#)).

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

Search
Add New
Upload CSV
Field Registration

Search if Cushunit is Registered

⚠️ Your search parameters did not match a Cushunit currently registered in the Umler Component Registry. Please click Register to complete a Field Registration. ✕

Note: Enter the Condition and Manufacturer

Condition Code *
1 - New

Manufacture Month
05

Manufacture Year
21

Reconditioned Date

Manufacturer *
EHI - EHI

Serial Number

Model Number

🔍 Search
+ Register
✕ Cancel

Exhibit 80. Cushioning Unit Field Registration Elements

The screenshot shows a web application interface for field registration. At the top, there are four tabs: 'Search', 'Add New', 'Upload CSV', and 'Field Registration', with 'Field Registration' being the active tab. Below the tabs, a message reads: 'Please fill in the following information to complete a field registration.' The main form area is titled 'Field Registration Elements' and contains the following fields:

- Component Registration Date (C010): A text input field.
- * Condition Code (D201): A dropdown menu with '1 - New' selected.
- AAR OEM/Recon Facility Code (D202): A dropdown menu.
- Manufacture Year (D203): A text input field with '21' entered.
- Manufacture Month (D204): A text input field with '07' entered.
- Reconditioned Date (D205): A text input field.
- * Manufacturer (D206): A dropdown menu with 'AHO - AHO' selected.
- * Serial Number (D207): A text input field.
- * OEM Model Number (D208): A dropdown menu.
- AAR Specification (D209): A dropdown menu.
- Travel Length (D210): A text input field.

At the bottom right of the form, there are two buttons: a blue 'Save' button and a grey 'Cancel' button.

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](#)).

Exhibit 81. Cushioning Unit Field Registration With Errors

Search
Add New
Upload CSV
Field Registration

Please fill in the following information to complete a field registration.

⚠ Transaction failed due to validation errors, see below for details. ✖

Field Registration Elements

Component Registration Date (C010):

* Condition Code (D201):

AAR OEM/Recon Facility Code (D202):

Manufacture Year (D203):

Manufacture Month (D204):

Reconditioned Date (D205):

* Manufacturer (D206):

* Serial Number (D207): Invalid for Mandatory Elements

* OEM Model Number (D208):

AAR Specification (D209):

Travel Length (D210):

In [Exhibit 81](#), a mandatory field needs to be entered.

- b. When validation is successful, Component Tracking generates a unique cushioning unit component ID ([Exhibit 82](#)).

Exhibit 82. Successful Cushioning Unit Field Registration

Search Add New Upload CSV Field Registration

Please fill in the following information to complete a field registration.

✔ Component added to the Component Registry 8RIC0003491953 ✘

+ Add New
✎ Edit

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): 05

Reconditioned Date (D205):

* Manufacturer (D206): EHI - EHI ▼

* Serial Number (D207): 12345

* OEM Model Number (D208): 15MC2FT - 15MC2FT ▼

AAR Specification (D209):

Travel Length (D210):

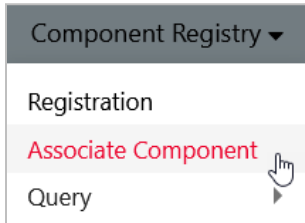
Equipment ID ✔ Associate

- c. In [Exhibit 82](#), 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 [Cushioning Unit Association](#).
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

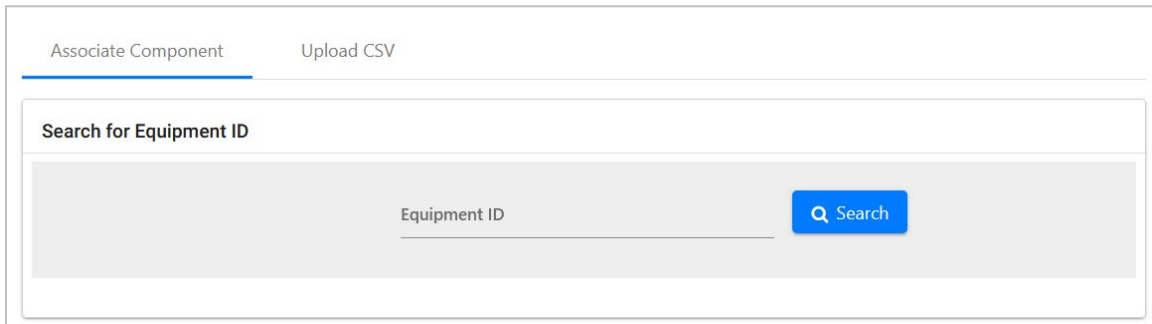
The Associate Component function is used to associate a component registered in Umler with a registered Umler Equipment ID.

Exhibit 83. Associate Component Menu Item



When the user selects **Component Registry > Associate Component** on an Umler page ([Exhibit 83](#)), the Associate Component tab is displayed, ([Exhibit 84](#)).

Exhibit 84. Associate Component to Equipment



Associate a Component

To associate a component, you must know the **Equipment ID** and **Component IDs** 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 ([Exhibit 84](#)).
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 ([Exhibit 85](#)).

Exhibit 85. Associate Component Search Results

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 component to a piece of equipment.

Equipment ID
RAIL30085
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 Association

Component Type
▼

☑ 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. [Side Frame Association](#)
- f. [Slack Adjuster Association](#)
- g. [Wheelset Association](#)
- h. [Pressure Relief Valve Association](#)
- i. [View All](#) (select to view all 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 [Exhibit 86](#) has two positions for component association.

Exhibit 86. Associate Bolster to Equipment

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 component to a piece of equipment.

Equipment ID

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 Association

Component Type

Components Associated to the Umler Record

Select	Component Type	Position From B End	AAR Component ID	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Status
<input checked="" type="checkbox"/>	Bolster	B	Q	🗑		Q				
<input type="checkbox"/>	Bolster	A	Q	🗑		Q				

Associate
Nullify
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 () 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 Search

<input type="checkbox"/>	Component ID	Manufacture	Cast Month/Year	AAR Design Feature ...	MFG Pattern Number	Serial Number	Component Registra...
<input type="checkbox"/>	RAIL0000001212	ACCO	2/22	B22	2	2	08/10/2023 14:17

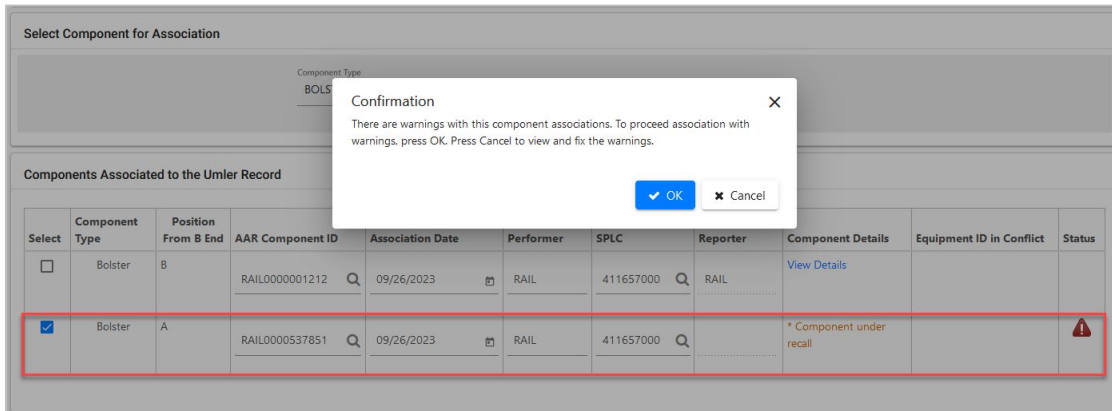
- When the appropriate component is found, select the checkbox in the first column and **Select** to close the tab and return to the Associate Components tab. The selected Component ID is added to the AAR Component ID field.

Note: If no component ID is found, register the component as described in [Add New Component](#), 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. If a component ID has been identified in a recall, a confirmation pop-up message is displayed ([Exhibit 88](#)). The Component Details field provides the error or warning.

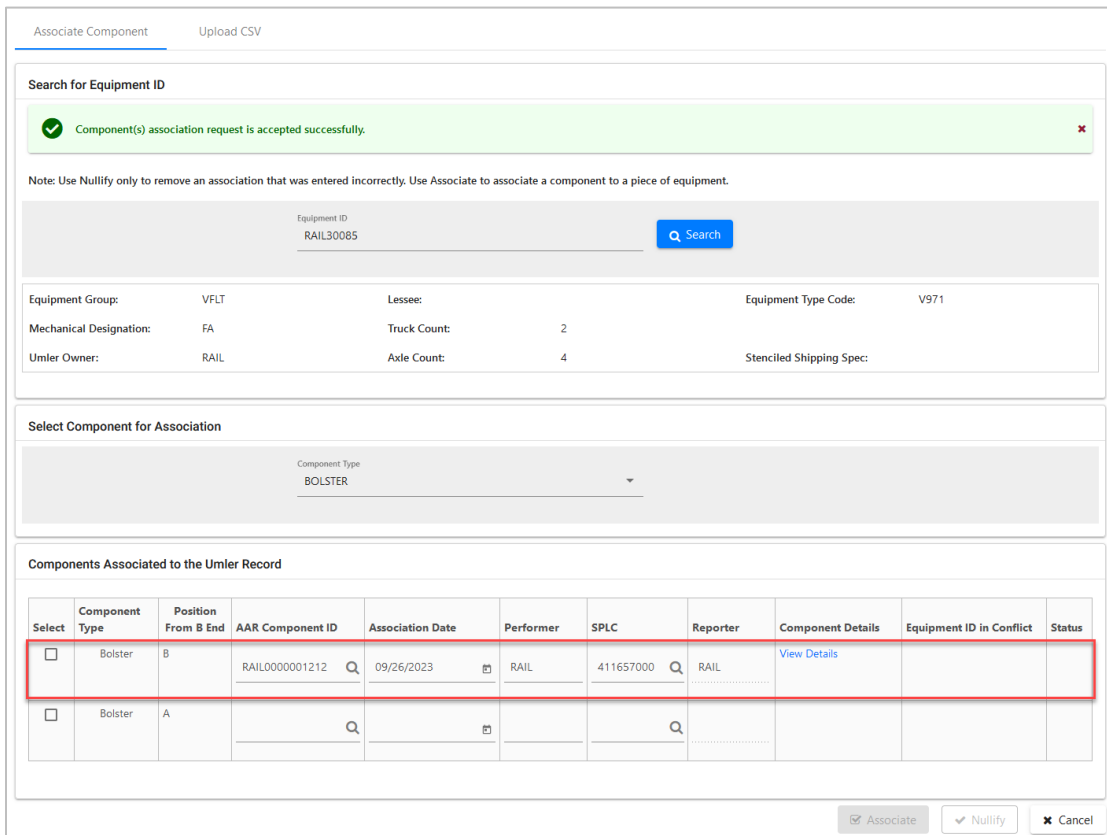
Select **Cancel** to change to a different component. Otherwise, select **OK** to install the recalled component.

Exhibit 88. Bolster Recall Warning



- b. If the component has no warnings, the Associate Component tab is redisplayed with a success message (Exhibit 89). 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 Exhibit 104). Select **OK** to close it.

Exhibit 89. Successful Bolster Association



- c. If the component was associated incorrectly, (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.

Coupler Association

The table at the bottom shows the coupler positions (B and A). In [Exhibit 90](#), 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

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 component to a piece of equipment.

Equipment ID

Search

Equipment Group:	GOND	Lessee:	Equipment Type Code:	E544
Mechanical Designation:	GBSR	Truck Count:	2	
Umler Owner:	RAIL	Axle Count:	4	Stenciled Shipping Spec:

Select Component for Association

Component Type

Components Associated to the Umler Record

Select	Component Type	Position From B End	AAR Component ID	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Status
<input checked="" type="checkbox"/>	Coupler	B	RAIL3004 Q	09/26/2023 📅	RAIL	411657000 Q				
<input type="checkbox"/>	Coupler	A	Q	📅		Q				

Associate
Nullify
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

<input type="checkbox"/>	Component ID	Manufacturer	Reconditioner	Cast Month/Year	Catalog Number	Serial Number	Component Registration Date
<input type="checkbox"/>	RAIL000003005	FAT	AMIS	01/01	1		08/22/2023 08:32

- 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 [Add New Component](#), and come back to associate. Recalled components are NOT included in search results.

- 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.
 - Enter the mark of the **Performer**. This is the shop mark.
 - 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).
 - Enter additional components to the rows below as appropriate.
- Once you have entered all the appropriate fields and checked the boxes for the components to associate, select **Associate**.
 - If a component ID has been identified in a recall, a confirmation pop-up message is displayed (see example in [Exhibit 88](#)). 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.

- If the component has no warnings, the Associate Component tab is redisplayed with a success message ([Exhibit 92](#)). 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 [Exhibit 104](#)). Select **OK** to close it.

Exhibit 92. Successful Coupler Association

Associate Component
Upload CSV

Search for Equipment ID

Component(s) association request is accepted successfully.
✕

Note: Use Nullify only to remove an association that was entered incorrectly. Use Associate to associate a component to a piece of equipment.

Equipment ID

Search

Equipment Group:	GOND	Lessee:	Equipment Type Code: E544
Mechanical Designation:	GBSR	Truck Count:	2
Umler Owner:	RAIL	Axle Count:	4
		Stenciled Shipping Spec:	

Select Component for Association

Component Type
▼

COUPLER

Components Associated to the Umler Record

Select	Component Type	Position From B End	AAR Component ID	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Status
<input type="checkbox"/>	Coupler	B	RAIL0000003004 Q	09/26/2023 📅	RAIL	411657000 Q	RAIL	View Details		
<input type="checkbox"/>	Coupler	A	Q	📅		Q				

Associate
 Nullify
 Cancel

- c. If the component was associated incorrectly, (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.

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.

Exhibit 93. Associate Brake Valve Control Emergency to Equipment

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 component to a piece of equipment.

Equipment ID
RAIL30085 Q 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 Association

Component Type
BRAKE VALVE CONTROL EMERGENCY ▼

Components Associated to the Umler Record

Select	Component Type	Position From B End	AAR Component ID	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Status
<input checked="" type="checkbox"/>	Brake Valve Control Emergency	1	RAIL3073 Q	09/26/2023 📅	RAIL	411657000 Q				

✔ Associate
✖ Nullify
✕ 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 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

- 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 return 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. 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. If the component ID has been identified in a recall, a confirmation pop-up is displayed (see example in [Exhibit 88](#)). The Component Details field provides the error or warning.
 - b. If the component has no warnings, 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 [Exhibit 104](#)). Select **OK** to close it.
 - c. If the component was associated incorrectly, (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.

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.

Exhibit 95. Associate Brake Valve Control Service to Equipment

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 component to a piece of equipment.

Equipment ID

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 Association

Component Type

Components Associated to the Umler Record

Select	Component Type	Position From B End	AAR Component ID	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Status
<input type="checkbox"/>	Brake Valve Control Service	1	Q	📅		Q				

Associate
Nullify
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 (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

- 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. If a component ID has been identified in a recall, a confirmation pop-up message is displayed (see example in [Exhibit 88](#)). 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. If the component has no warnings, 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 [Exhibit 104](#)). Select **OK** to close it.
 - c. If the component was associated incorrectly, (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.

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

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 component to a piece of equipment.

Equipment ID

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 Association

Component Type

Components Associated to the Umler Record

Select	Component Type	Position From B End	AAR Component ID	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Status
<input type="checkbox"/>	Side Frame	BL	Q	Q			Q			
<input type="checkbox"/>	Side Frame	BR	Q	Q			Q			
<input type="checkbox"/>	Side Frame	AL	Q	Q			Q			
<input type="checkbox"/>	Side Frame	AR	Q	Q			Q			

Associate
Nullify
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 () 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 [Add New Component](#), 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. If a component ID has been identified in a recall, a confirmation pop-up message is displayed (see example in [Exhibit 88](#)). 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. If the component has no warnings, the Associate Component tab is redisplayed with a success message ([Exhibit 98](#)). 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 [Exhibit 104](#)). Select **OK** to close it.

Exhibit 98. Successful Sideframe Association

Associate Component
Upload CSV

Search for Equipment ID

✔ Component(s) association request is accepted successfully.
✕

Note: Use Nullify only to remove an association that was entered incorrectly. Use Associate to associate a component to a piece of equipment.

Equipment ID

Q 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 Association

Component Type

▼

Components Associated to the Umler Record

Select	Component Type	Position From B End	AAR Component ID	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Status
<input type="checkbox"/>	Side Frame	BL	RAIL0000001120 Q	09/26/2023 📅	RAIL	411657000 Q	RAIL	View Details		
<input type="checkbox"/>	Side Frame	BR	Q	📅		Q	⋮			
<input type="checkbox"/>	Side Frame	AL	Q	📅		Q	⋮			
<input type="checkbox"/>	Side Frame	AR	Q	📅		Q	⋮			

✔ Associate
▼ Nullify
✕ Cancel

c. If the component was associated incorrectly, (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.

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

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 component to a piece of equipment.

Equipment ID

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 Association

Component Type

Components Associated to the Umler Record

Select	Component Type	Position From B End	AAR Component ID	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Status
<input type="checkbox"/>	Slack Adjuster	1	Q	📅			Q			
<input type="checkbox"/>	Slack Adjuster	2	Q	📅			Q			
<input type="checkbox"/>	Slack Adjuster	3	Q	📅			Q			
<input type="checkbox"/>	Slack Adjuster	4	Q	📅			Q			

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 [Add New Component](#), 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. If a component ID has been identified in a recall, a confirmation pop-up message is displayed (see example in [Exhibit 88](#)). 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. If the component has no warnings, the Associate Component tab is redisplayed with a success message ([Exhibit 100](#)). 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 [Exhibit 104](#)). Select **OK** to close it.

Exhibit 100. Successful Slack Adjuster Association

Associate Component Upload CSV

Search for Equipment ID

✔ Component(s) association request is accepted successfully.

Note: Use Nullify only to remove an association that was entered incorrectly. Use Associate to associate a component to a piece of equipment.

Equipment ID: RAIL30085 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 Association

Component Type: SLACK ADJUSTER

Components Associated to the Umler Record

Select	Component Type	Position From B End	AAR Component ID	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Status
<input type="checkbox"/>	Slack Adjuster	1	8RIC0003491770	09/26/2023	RAIL	411657000	RAIL	View Details		
<input type="checkbox"/>	Slack Adjuster	2								
<input type="checkbox"/>	Slack Adjuster	3								
<input type="checkbox"/>	Slack Adjuster	4								
<input type="checkbox"/>	Slack Adjuster	5								

- c. If the component was associated incorrectly, (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.

Exhibit 101. Associate Wheelset to Equipment

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 component to a piece of equipment.

Equipment ID

Q Search

Equipment Group:	VFLT	Lessee:	V971
Mechanical Designation:	FA	Truck Count:	2
Umler Owner:	RAIL	Axle Count:	4
		Stenciled Shipping Spec:	

Select Component for Association

Component Type

Components Associated to the Umler Record

Select	Component Type	Position From B End	AAR Component ID	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Status
<input type="checkbox"/>	Wheelset	1	<input style="width: 80%; border: none;" type="text"/> Q	<input style="width: 80%; border: none;" type="text"/> 📅	<input style="width: 80%; border: none;" type="text"/>	<input style="width: 80%; border: none;" type="text"/>	<input style="width: 80%; border: none;" type="text"/> Q	<input style="width: 80%; border: none;" type="text"/>	<input style="width: 80%; border: none;" type="text"/>	<input style="width: 80%; border: none;" type="text"/>
<input type="checkbox"/>	Wheelset	2	<input style="width: 80%; border: none;" type="text"/> Q	<input style="width: 80%; border: none;" type="text"/> 📅	<input style="width: 80%; border: none;" type="text"/>	<input style="width: 80%; border: none;" type="text"/>	<input style="width: 80%; border: none;" type="text"/> Q	<input style="width: 80%; border: none;" type="text"/>	<input style="width: 80%; border: none;" type="text"/>	<input style="width: 80%; border: none;" type="text"/>
<input type="checkbox"/>	Wheelset	3	<input style="width: 80%; border: none;" type="text"/> Q	<input style="width: 80%; border: none;" type="text"/> 📅	<input style="width: 80%; border: none;" type="text"/>	<input style="width: 80%; border: none;" type="text"/>	<input style="width: 80%; border: none;" type="text"/> Q	<input style="width: 80%; border: none;" type="text"/>	<input style="width: 80%; border: none;" type="text"/>	<input style="width: 80%; border: none;" type="text"/>
<input type="checkbox"/>	Wheelset	4	<input style="width: 80%; border: none;" type="text"/> Q	<input style="width: 80%; border: none;" type="text"/> 📅	<input style="width: 80%; border: none;" type="text"/>	<input style="width: 80%; border: none;" type="text"/>	<input style="width: 80%; border: none;" type="text"/> Q	<input style="width: 80%; border: none;" type="text"/>	<input style="width: 80%; border: none;" type="text"/>	<input style="width: 80%; border: none;" type="text"/>

Associate
 Nullify

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**.

Exhibit 102. Wheelsets Component Search

Component Search
✕

Wheel Serial Number *
P140022

Wheel Stamped Manufacturer Code *
P

Wheel Stamped Month/Stamped Year

Wheel Nominal Diameter

Wheel Design Code

🗑️ Clear 🔍 Search

Select	Component AAR Facility Code	Component Assembly Date/Time	Wheel	Stamped MMY	Mfg Code	Class	Serial #
<input type="checkbox"/>	AADC - AMTRAK-ACELA, Washington,DC		1	0822	P	B	P140022
				0822	P	B	

✔ 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 a barcoded component as described in [Add New Component](#), or for a nonbarcoded component, add the component as described in [Field Registration](#). 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. If a component ID has been identified in a recall, a confirmation pop-up message is displayed (see example in [Exhibit 88](#)). 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. If the component has no warnings, the Associate Component tab is redisplayed with a success message ([Exhibit 103](#)). The **Reporter** field is populated.

Exhibit 103. Successful Wheelset Association

Associate Component
Upload CSV

Search for Equipment ID

Component(s) association request is accepted successfully.
✕

Note: Use Nullify only to remove an association that was entered incorrectly. Use Associate to associate a component to a piece of equipment.

Equipment ID

RAIL30085

Search

Equipment Group: VFLT

Mechanical Designation: FA

Umler Owner: RAIL

Lessee:

Truck Count: 2

Axle Count: 4

Equipment Type Code: V971

Stenciled Shipping Spec:

Select Component for Association

Component Type

WHEELSET

Components Associated to the Umler Record

Select	Component Type	Position From B End	AAR Component ID	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Status
<input type="checkbox"/>	Wheelset	1	BRIC0003491952 Q	09/26/2023 📅	RAIL	411657000 Q	RAIL	View Details		
<input type="checkbox"/>	Wheelset	2	Q	📅		Q				
<input type="checkbox"/>	Wheelset	3	Q	📅		Q				
<input type="checkbox"/>	Wheelset	4	Q	📅		Q				

Associate
Nullify
Cancel

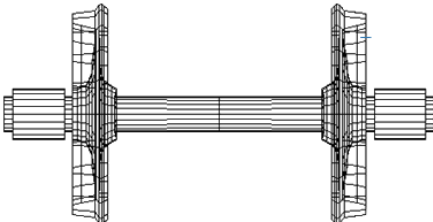
The **View Details** link opens a pop-up that shows the Component Details for the row selected ([Exhibit 104](#)). Select **OK** to close it.

Exhibit 104. View Component Details


Wheelset: 8RIC0003491952 Location: 1 Car Number: RAIL30085

New 28 inch wheel Wheel, Class B, Curved Plate, 1-W;
 New 6.0 X 11.0 Bearing, AARX0001 - All makes Natural Fitted Backing Ring; New Axle

	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 Year	/	/
Stamped Serial Number	P140022		Cup Serial Number		
Heat/Melt			Certificate Number	1	1
Rim Thickness Side Scale Reading	28	28	Seal Type		
Finger Gauge Reading	11	11	Grease Type		
Tape Size			Cage Type		



Axle	
AAR Condition Code	1
Manufacture Date	
Serial Number And Heat ID	
AAR Type	RWS
Grade	
Body Design	E
Int Extended Axle Codes	
Body Design	E
Axle Dust Guard Size	
Extended Seal Wear Ring	

 OK

- c. If the component was associated incorrectly, (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

Pressure Relief Valve Association

The table at the bottom shows the pressure relief valve positions (from the “B” end). The equipment example in [Exhibit 105](#) has six positions for component association.

Exhibit 105. Associate Pressure Relief Valve to Equipment

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 component to a piece of equipment.

Equipment ID

Search

Equipment Group:	TANK	Lessee:	Equipment Type Code:	T055
Mechanical Designation:	T	Truck Count:	2	
Umler Owner:	RAIL	Axle Count:	4	Stenciled Shipping Spec: 111A100WS

Select Component for Association

Component Type

Components Associated to the Umler Record

Select	Component Type	Position From B End	AAR Component ID	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Status
<input type="checkbox"/>	Pressure Relief Valve	B	<input style="width: 80%; border: none;" type="text"/> Q	<input style="width: 80%; border: none;" type="text"/> Q	<input style="width: 80%; border: none;" type="text"/>	<input style="width: 80%; border: none;" type="text"/>	<input style="width: 80%; border: none;" type="text"/> Q			
<input type="checkbox"/>	Pressure Relief Valve	C	<input style="width: 80%; border: none;" type="text"/> Q	<input style="width: 80%; border: none;" type="text"/> Q	<input style="width: 80%; border: none;" type="text"/>	<input style="width: 80%; border: none;" type="text"/>	<input style="width: 80%; border: none;" type="text"/> Q			
<input type="checkbox"/>	Pressure Relief Valve	D	<input style="width: 80%; border: none;" type="text"/> Q	<input style="width: 80%; border: none;" type="text"/> Q	<input style="width: 80%; border: none;" type="text"/>	<input style="width: 80%; border: none;" type="text"/>	<input style="width: 80%; border: none;" type="text"/> Q			
<input type="checkbox"/>	Pressure Relief Valve	E	<input style="width: 80%; border: none;" type="text"/> Q	<input style="width: 80%; border: none;" type="text"/> Q	<input style="width: 80%; border: none;" type="text"/>	<input style="width: 80%; border: none;" type="text"/>	<input style="width: 80%; border: none;" type="text"/> Q			

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

- 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.

- 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.
 - Enter the mark of the **Performer**. This is the shop mark.
 - 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).
 - Enter additional components to the rows below as appropriate.
- Once you have entered all the appropriate fields and checked the boxes for the components to associate, select **Associate**.
 - If a component ID has been identified in a recall, a confirmation pop-up message is displayed (see example in [Exhibit 88](#)). 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.
 - If the component has no warnings, the Associate Component tab is redisplayed with a success message (see example in [Exhibit 89](#)). 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 [Exhibit 104](#)). Select **OK** to close it.
 - If the component was associated incorrectly, (e.g., wrong Equipment ID, or wrong position on equipment), the association can be nullified. See [Nullify an Association](#).
 - 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.

Exhibit 107. Associate Cushioning Unit to Equipment

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 component to a piece of equipment.

Equipment ID

Q Search

Equipment Group:	GOND	Lessee:	Equipment Type Code: E544
Mechanical Designation:	GBSR	Truck Count:	2
Umler Owner:	RAIL	Axle Count:	4
		Stenciled Shipping Spec:	

Select Component for Association

Component Type

Components Associated to the Umler Record

Select	Component Type	Position From B End	AAR Component ID	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Status
<input type="checkbox"/>	Cushioning Unit	B	Q	📅		Q				
<input type="checkbox"/>	Cushioning Unit	A	Q	📅		Q				

Associate
Nullify
Cancel

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

Note: Enter the Condition and Manufacturer

Condition Code *
1 - New

Manufacture Month
05

Manufacture Year
21

Reconditioned Date

Manufacturer *
EHI - EHI

Serial Number

Model Number

Clear Search

<input type="checkbox"/>	Component...	Condition Co...	Manufacturer	Manufactur...	Manufactur...	Recondition...	Model Num...	AAR Specifi...	Serial Num...	Travel Length	Component Registration Date
<input type="checkbox"/>	8RIC0003491...	1	EHI	5	21		15MC2FT		12345		09/26/2023 00:28

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 identified in a search.

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.

- 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.
 - Enter the mark of the **Performer**. This is the shop mark.
 - 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).
 - Enter additional components to the rows below as appropriate.
- Once you have entered all the appropriate fields and checked the boxes for the components to associate, select **Associate**.
 - If a component ID has been identified in a recall, a confirmation pop-up message is displayed (see example in [Exhibit 88](#)). 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. If the component has no warnings, the Associate Component tab is redisplayed with a success message ([Exhibit 109](#)). 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 [Exhibit 104](#)). Select **OK** to close it.

Exhibit 109. Successful Cushioning Unit Association

Associate Component
Upload CSV

Search for Equipment ID

✔ Component(s) association request is accepted successfully.
✕

Note: Use Nullify only to remove an association that was entered incorrectly. Use Associate to associate a component to a piece of equipment.

Equipment ID
RAIL7213
Q Search

Equipment Group:	GOND	Lessee:	Equipment Type Code: E544
Mechanical Designation:	GBSR	Truck Count:	2
Umler Owner:	RAIL	Axle Count:	4
		Stenciled Shipping Spec:	

Select Component for Association

Component Type
CUSHIONING UNIT
▼

Components Associated to the Umler Record

Select	Component Type	Position From B End	AAR Component ID	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Status
<input type="checkbox"/>	Cushioning Unit	B	8RIC0003491953 Q	09/26/2023 📅	RAIL	411657000 Q	RAIL	View Details		
<input type="checkbox"/>	Cushioning Unit	A	Q	📅		Q				

📧 Associate
▼ Nullify
✕ Cancel

- c. If the component was associated incorrectly, (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.

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 ([Exhibit 110](#)).

Exhibit 110. View All Associated Components for Equipment ID

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 component to a piece of equipment.

Equipment ID
Search

RAIL30085

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 Association

Component Type
▼

View All

Components Associated to the Umler Record

Select	Component Type	Position From B End	AAR Component ID	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Status
<input type="checkbox"/>	Bolster	B	RAIL000001212	09/26/2023	RAIL	411657000	RAIL	View Details		
<input type="checkbox"/>	Side Frame	BL	RAIL000001120	09/26/2023	RAIL	411657000	RAIL	View Details		
<input type="checkbox"/>	Slack Adjuster	1	8RIC0003491770	09/26/2023	RAIL	411657000	RAIL	View Details		
<input type="checkbox"/>	Wheelset	1	8RIC0003491952	09/26/2023	RAIL	411657000	RAIL	View Details		

Associate
Nullify
Cancel

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 [Upload CSV](#). 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 ([Exhibit 111](#)).

Exhibit 111. Remove Component from Equipment

Select Component for Association

Component Type
View All

Components Associated to the Umler Record

Select	Component Type	Position From B End	AAR Component ID	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Status
<input checked="" type="checkbox"/>	Bolster	B	RAIL0000001212	09/26/2023	RAIL	411657000	RAIL	View Details		
<input type="checkbox"/>	Side Frame	BL	RAIL0000001120	09/26/2023	RAIL	411657000	RAIL	View Details		
<input type="checkbox"/>	Slack Adjuster	1	8RIC0003491770	09/26/2023	RAIL	411657000	RAIL	View Details		
<input type="checkbox"/>	Wheelset	1	8RIC0003491952	09/26/2023	RAIL	411657000	RAIL	View Details		

Associate
 Nullify
 Cancel

4. Select the checkbox to the left of the incorrectly associated component, and select **Nullify**. A confirmation pop-up is displayed ([Exhibit 112](#)).

Exhibit 112. Confirm Nullify

Confirmation ✕

You are nullifying the current association(s) between component(s) and this equipment. Any previous associations will be restored. Do you want to continue?

- 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](#)).

Exhibit 113. Successful Association Nullification

Associate Component
Upload CSV

Search for Equipment ID

✔ The nullification request has been accepted and processed.
✕

Note: Use Nullify only to remove an association that was entered incorrectly. Use Associate to associate a component to a piece of equipment.

Equipment ID

Search

Equipment Group:	VFLT	Lessee:	Equipment Type Code:
Mechanical Designation:	FA	Truck Count:	V971
Umler Owner:	RAIL	Axle Count:	2
			4
			Stenciled Shipping Spec:

Select Component for Association

Component Type

Components Associated to the Umler Record

Select	Component Type	Position From B End	AAR Component ID	Association Date	Performer	SPLC	Reporter	Component Details	Equipment ID in Conflict	Status
<input type="checkbox"/>	Side Frame	BL	RAIL000001120	09/26/2023	RAIL	411657000	RAIL	View Details		
<input type="checkbox"/>	Slack Adjuster	1	BRIC0003491770	09/26/2023	RAIL	411657000	RAIL	View Details		
<input type="checkbox"/>	Wheelset	1	BRIC0003491952	09/26/2023	RAIL	411657000	RAIL	View Details		

Associate

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 1. Likewise, a different component ID can be entered and associated.

- 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

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

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 [Associate Component](#)).

CSV Association Upload File Preparation

Exhibit 115. Association CSV Upload Template (in Excel)

	A	B	C	D	E	F	G	H
1	TransactionType	ComponentType	EquipmentID	ComponentID	Position	AssociationDT	Performer	SPLC
2	CA	WHEELSET	RAIL0000000123	RAIL0000000101	1	6/7/2022	RAIL	411700000
3	CN	WHEELSET	RAIL0000000123	RAIL0000000101	1	6/7/2022	RAIL	411700000
4								

The fields are as described in the online Element Help and in the [Umler Component Tracking Data Specifications Manual](#) available on the [Umler product page](#). 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 [Umler Bulk Upload Transactions CSV File Specifications](#) and other resources available on the [Umler product page](#).

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](#)).
2. Select **Query > Transaction Log**. The Transaction Log Search page is displayed ([Exhibit 116](#)).

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.

🔍 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) *

Results will include transactions matching ALL of the following criteria

*** At least one input is required:**

Starting Date/Time: 07/31/2023 12:01 AM Ending Date/Time: 08/01/2023 11:59 PM

Search All Dates

Equipment ID(s) Company-Specific Equipment Group(s) 🔍

Transaction Type(s): AFMC Inspection User ID(s)

Element Value Criteria:

Element Groups: WHEELSET - Wheelset on Truck Element: Wheelset Component ID - B350 Transaction Value All Values

Element Groups: Element: Previous Value All Values

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.

Show me all transactions on the equipment that met the specified ownership/control criteria at the time of the transaction.

Equipment Initial(s) Umler Owner(s)

Umler Company Lessee

Stenciled Mark Owner

🔍 Search
📊 Count
🗑️ Clear

3. Set general search criteria as described in the [Umler User Guide](#).
4. To confine the results to component transactions, select one 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**
 - **SIDEFRAE – 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

Transaction Log Search Results

Search Criteria Search Results

1249 matches found. 1000 available for display. 1000 matches displayed on this page.
The following transactions matched the specified search criteria.

ID	TimeStamp	Equipment ID	EG	ETC	MD	Pool ID	Equip Owner	Lessee	Type	State	Company
183926943	10/01/2020 08:33 AM	RAIL0000001200	HOPP	C111	LO		RAIL	AARE	ECC	Normal	RAIL
184889747	10/29/2020 08:17 AM	RAIL0000010120	MISC	M280	MWG		RAIL		ECC	Normal	RAIL
185030132	11/03/2020 12:32 PM	RAIL0000002228	FLAT	M150	MWF		RAIL		ECD	Normal	RAIL
185030134	11/03/2020 12:32 PM	RAIL0000002230	BOXC	R300	RB		RAIL		ECD	Normal	RAIL
185030155	11/03/2020 12:32 PM	RAIL0000667788	FLAT	M150	MWF		RAIL		ECD	Normal	RAIL
185059482	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
185312819	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
188511571	02/22/2021 08:34 AM	RAIL0000000024	HOPP	C111	LO		RAIL	AARE	ECC	Normal	RAIL
189543037	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](#).

Exhibit 118. Component Transaction Details

Transaction Details

Transaction ID :	212271807	Equipment Group :	BOXC
Timestamp :	07/31/2023 4:34 PM	Mechanical Designation :	XP
Equipment ID :	RAIL0000726201	User :	SANDEEP
Equipment Type Code :	A405	Equipment Owner :	RAIL
Type :	ECC	Lessee :	
State :	Normal	EIN :	0010850044
Company :	RAIL		
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		
				A	WHEELSET	D	TRUCK	A
B350	Wheelset Component ID	RAIL0034353485		E	WHEELSET	D	TRUCK	A

← Previous
Done
Next →

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

- Select **Done** to return to the search results, or select **Next** to view the next component transaction details ([Exhibit 119](#)).

Exhibit 119. Nullification Transaction Details

Transaction Details

Transaction ID :	212271630	Equipment Group :	BOXC
Timestamp :	07/31/2023 4:15 PM	Mechanical Designation :	XP
Equipment ID :	RAIL0000726201	User :	BSJXR02
Equipment Type Code :	A405	Equipment Owner :	RAIL
Type :	ECC	Lessee :	
State :	Normal	EIN :	0010850044
Company :	RAIL		
Trans Source :	WEB_SERVICES		

Element ID	Element Name	Transaction Element Value	Previous Element Value	AC	Component ID	Component Location	Parent ID	Parent Location
B350	Wheelset Component ID		RAIL0000726201	R	WHEELSET	1	TRUCK	B

← Previous
Done
Next →

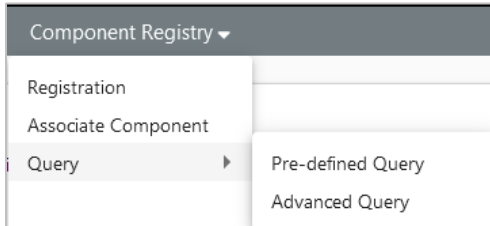
In [Exhibit 119](#), the Wheelset Component ID value is null, with a previous value of RAIL0000726201, which indicates that the association has been nullified.

- 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



The Component Registry Query menu has the following functions:

Exhibit 121. Component Registry Query Menu Functions

<u>Pre-Defined Queries</u>	Allows 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 Railinc Advanced Query User Guide 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 ([Exhibit 122](#)).

Exhibit 122. Pre-Defined Query

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 :

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

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

Components I have Registered
 Components 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 :

Components Associated to my Equipment and *Components I have Registered* queries are limited to 50,000 components per request

5. A success message is displayed ([Exhibit 124](#)).

Exhibit 124. Successfully Submitted Pre-Defined Query

Pre-defined Query

✔ Your 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. ✘

Components I have Registered
 Components 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

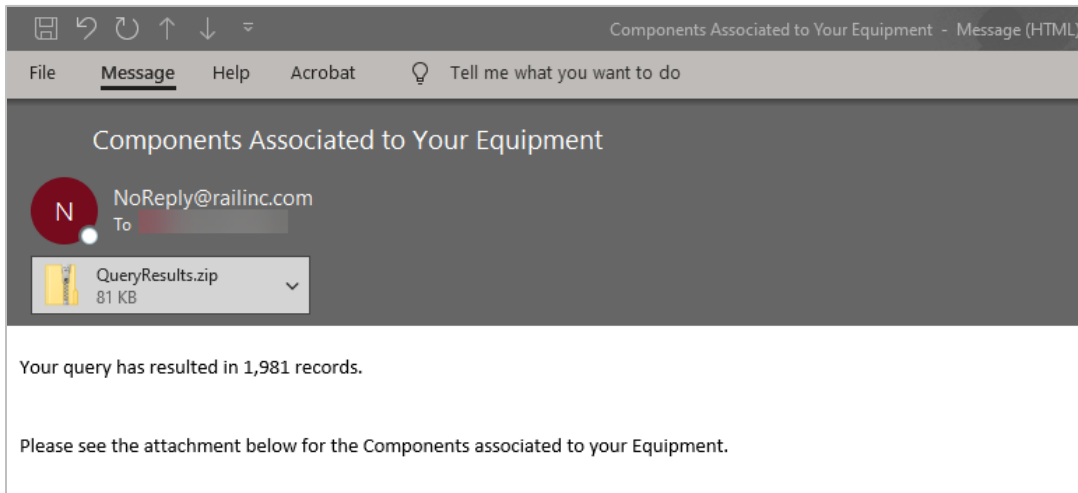
Equipment List :

Components Associated to my Equipment and *Components I have Registered* queries are limited to 50,000 components per request

✔ Submit
✘ 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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