

Complete CEPM Solutions

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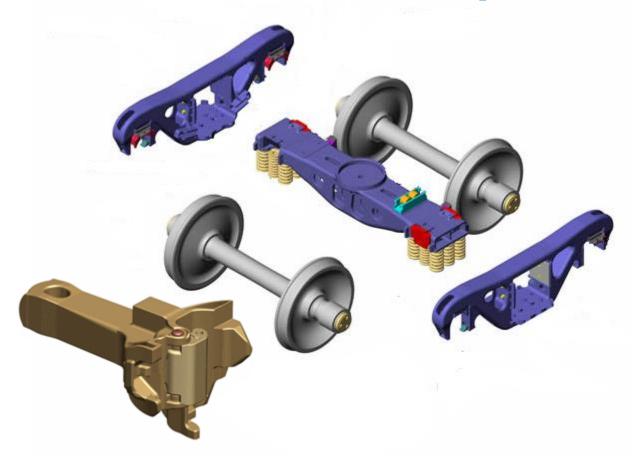
Who are we...

- 18 years in rail industry
- 80 customers in 6 countries
- Charter member of the CEPM committee

Comprehensive Equipment Performance Monitoring

- AAR Mandated
- Facilitates component recall
- Integrates with EHMS and CRB

Current CEPM Components



CEPM Component Labels



CEPM Components PTC Transmitters Turbochargers Brake Systems Domes Engines GPS Read Street **Brake Valves** Cushioning Couplers Bolsters Sideframes Wheelsets

Туре	Component	Туре	Component
Brake Systems		Locomotives	
	Brake Beams Brake Valves-Service Portion Brake Valves-Emergency Portion Brake Cylinders Brake Shoes		Traction Motors Emission Kits Engines PTC Crankshafts Fuel Injectors
Truck Castings			Alternators
	Bolsters		Turbos
	Sideframes	Tank Cars	
Draft Systems			Tank Valves
	Couplers		Dome Covers
	Knuckles	Bearings	
	Draft Gears Yokes		Side Bearings Bearing Adapters
	Cushioning	Non-Rolling Asse	ets
	-		Transmitters (Antennae)

CEPM Component Process

- 1. Require Registration
- 2. Require Association to the railcar
- 3. Require Association for billing

CEPM Schedule

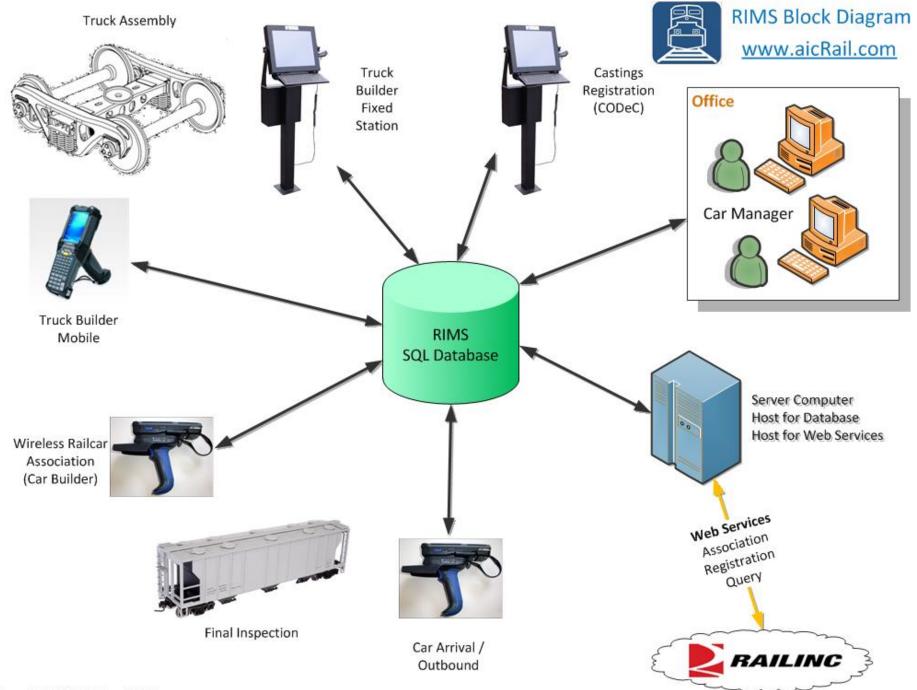
Date	Event
2012	
July 1	Wheelset registration required
June 1	Side Frame and Bolster Registration Allowed
2013	
January 1	Association of Wheelset required
July 1	Wheelset Association required for AAR billing
	Side Frame, Bolster and Coupler Registration Required
2014	
January 1	Castings Association Required
July 1?	Castings Association Reuired for billing



- Associate Components to railcars
- Register Components
- Manage truck components
- Track Component inventory

RIMS Features

- Register components (new and reconditioned)
- Associate railcar components to the car
- Validate registration at receiving
- Transfer shipping manifest electronically
- Capture components at the truck build station
- Inbound component inventory
- Car arrival / Repair
 - \circ In for repair
 - Repair duration
 - $_{\odot}$ Repair due date / Completion date



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RIMS Uses Railinc Web Services

- Reports Association and registrations to Railinc
- Power house for all applications
- Runs in Background
- Real Time Response
- No CSV Uploads
- Uses Railinc Web Services
 - Repair
 - Registration
 - Query

RIMS Services

RMS Association Service			
File Options Help			
Successful: 0 Waiting to Associate: 0 Failed: 0 Reset Count Status: Waiting Clear 10/05/12 10:21:18: Waiting Pause Resume Response	Setup Railinc Login Information Username: Password: Settings Company Code: SPLC: Save	RMS Registration Service File Options Help Successful: 0 Failed: 0 Reset Count Status: Waiting 10/05/12 10:22:40: Waiting	Setup Railinc Login Information Username: Password: Settings Company Code: Save Cancel
		Pause Resume	
Running		Response	
Association Se	ervice	Running	

Registration Service

RIMS Association Overview

- Associate Components to Railcar
 - Wheelsets
 - Side Frames
 - Bolsters
 - Couplers
- Uses Railinc's Repair Web Service
- Meets CEPM Requirements

Car Manager

- Desktop application to manage all data collected in the shop
- Manages Equipment Association Status
- Associates Components to Equipment
 - Wheelsets, Side Frames, Bolsters, Couplers
- Captures Equipment Data
 - Type, truck count
- Registers Components
- Manages component inventory

Car Manager

🛃 Car Mana	ager	
File Equip	oment Reports Tools Help	Shop Code: AIC
Equipment	Find in Equipment ID Filtered Date This Week 2/3/2013 15 - 2/9/2013 Equipment ID Equipment Type Creation Date	Equipment: RAIL012345 Description: X Type: Hopper Truck Count: 2 Image: In For Repairs Inactive
Eq	RAIL012345 Hopper 2/7/2013 1:39 PM -06:0 AARE012345 Box Car 2/7/2013 1:38 PM -06:0	Components Inspections
Trucks		Wheelset Location 1 AARE9540000011 Location 2 Location 3 AARE9540000012 Location 4 SideFrame Location BL Location BR
		Location AL
Components		Location AR Bolster Location B Location A Coupler
Cor		Click submit to send associations to Railinc
	2 Results	Submit Save Cancel
Copyright	© 2013 Arkansas Industrial Computing, Inc. Car Manag	ger Version 1.1.8.17794

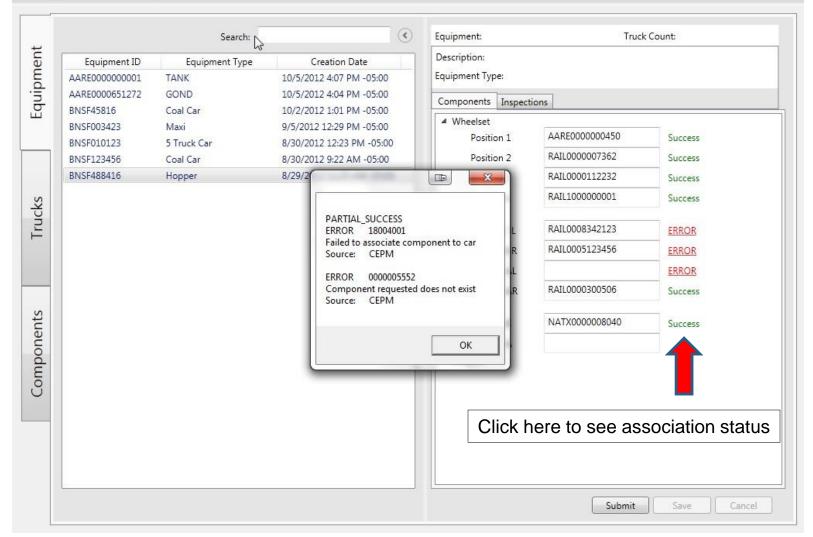
Car Manager - Association

-daipinetir	Find Date All •	in Equipment ID 12/20/2012	Filtered J/22/2013 15 C L A R	Equipment: BNSF488 Type: Hopper Truck Count: 2	413	Des	cription:		
2	Equipment ID	Equipment Type	Creation Date	Inactive					
5	RAIL100034	Hopper	03/20/2013 11:16 AM						C
1	RAIL100032	Hopper	03/20/2013 11:11 AM	Current Repair: Arriv	/al	Due	E	nd	End Repair
	RAIL000352	Hopper	03/05/2013 02:34 PM	03/05/	2013	3/12/2013	15		Repair Histor
	RAIL000351	Hopper	03/05/2013 02:33 PM		_				
	RAIL000350	Hopper	03/05/2013 02:28 PM	Components Inspectio	ns				
	RAIL000318	Hopper	03/05/2013 12:23 PM	▲ Bolster					
CYOP II	RAIL000317	Hopper	03/05/2013 12:23 PM	Location B	RAI	L0000008005	3	6	Success
5	RAIL000316	Hopper	03/05/2013 12:23 PM	Location A	1				
	RAIL000315	Hopper	03/05/2013 12:23 PM	Coupler					
	RAIL000313	Hopper	03/05/2013 12:22 PM	▲ SideFrame					
	RAIL000034	Hopper	02/15/2013 10:27 AM	Location BL					
	RAIL000014	Hopper	02/15/2013 10:22 AM	Location BR	-				
	RAIL000013	Hopper	02/15/2013 10:22 AM						
3	RAIL000012	Hopper	02/15/2013 10:22 AM	Location AL	RAI	L0000009002	2	6	ERROR
5	RAIL100003	Hopper	02/15/2013 10:06 AM	Location AR	RAI	L0000009003	3	8	Success
mining	RAIL200003	Hopper	02/15/2013 09:47 AM	▲ Wheelset					
2	RAIL300003	Hopper	02/15/2013 09:42 AM	Location 1					
5	RAIL400004	Hopper	02/15/2013 09:33 AM	Location 2	RAI	100 07367	9	2	Success
,	RAIL500005	Hopper	02/15/2013 09:23 AM		11845				
	RAIL749925	Hopper	01/16/2013 04:18 PM	Location 3	RAI	LOC 07365	3	6	ERROR
	BNSF488413	Hopper	01/11/2013 02:39 PM	Location 4	RAI	L0000007366	3	8	Success
	BNSF488414	Hopper	01/03/2013 03:01 PM	Manually	ont		orug		Mobilo
	BNSF488416	Hopper	12/20/2012 03:45 PM	Manually					
			27 Results	Associ	atic	on Data	a Colle	C	tion

Car Manager - Association

Car Manager

File Equipment Help



Car Manager – Association

Car Manager

File Equipment

Help

(<) Equipment: Truck Count: Search: Equipment Description: Equipment ID Equipment Type Creation Date Equipment Type: AARE0000000001 TANK 10/5/2012 4:07 PM -05:00 AARE0000651272 GOND 10/5/2012 4:04 PM -05:00 Components Inspections BNSF45816 Coal Car 10/2/2012 1:01 PM -05:00 ▲ Wheelset Maxi BNSF003423 9/5/2012 12:29 PM -05:00 RAIL9000003211 Position 1 ERROR BNSF010123 5 Truck Car 8/30/2012 12:23 PM -05:00 RAIL9000323456 Position 2 ERROR BNSF123456 Coal Car 8/30/2012 9:22 AM -05:00 RAIL9000432122 BNSF488416 Hopper 8/29/2012 11:25 AM -05:00 Position 3 ERROR RAIL9000612345 Position 4 ERROR Trucks RAIL9100012345 Position 5 ERROR Position 6 Position 7 Position 8 Position 9 Components Position Z ▲ SideFrame RAIL0034512345 22 Position BL ERROR RAIL0045412345 Position BR ERROR Position CL Position CR Position DL Position DR Position EL

Works with multi-unit Cars

Submit Save

Cancel

Association – Mobile Data Collection

Scan AEI Tag or Manually Enter Equipment Number



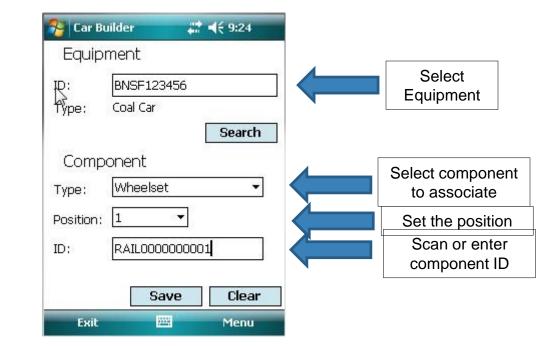




How it works



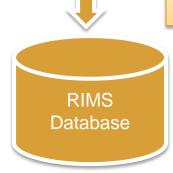
Manually Enter Equipment ID





Scan AEI Tag with RFID Reader

Stores component ID in the RIMS Database for Association to the Equipment at a later time

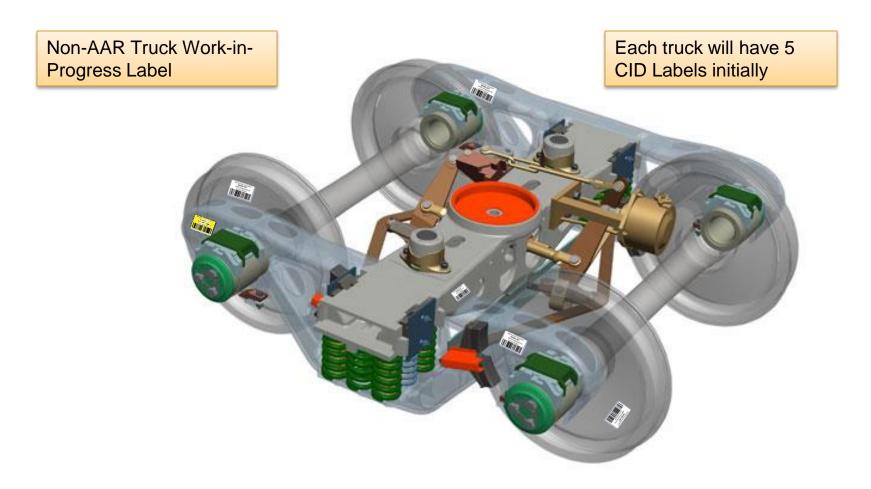


Car Manager – Car Arrival

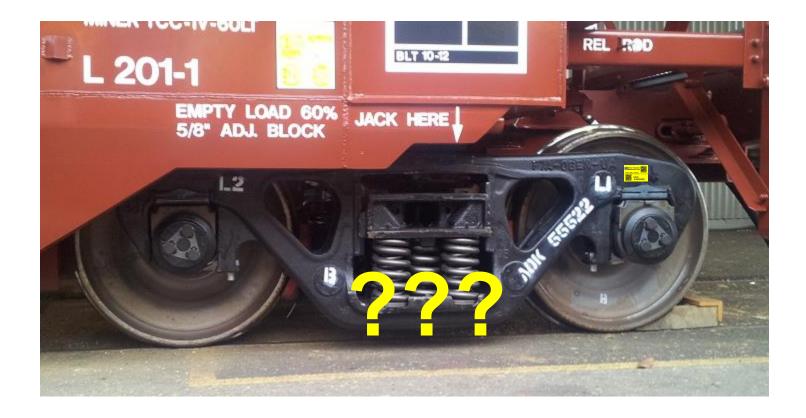
Equipment ID Equipment Type Creation Date Inactive RAIL100034 Hopper 03/20/2013 11:16 AH Inactive RAIL1000352 Hopper 03/05/2013 02:34 PH Due End End End Repair History RAIL000352 Hopper 03/05/2013 02:32 PH RAIL000318 Hopper 03/05/2013 3/12/2013 3/12/2013 S Repair History RAIL000316 Hopper 03/05/2013 12:23 PH RAIL000316 Hopper 03/05/2013 12:23 PH RAIL000316 Hopper 03/05/2013 12:23 PH Location B RAIL0000008005 Success RAIL000316 Hopper 03/05/2013 12:22 PH Location AL Coupler RAIL000034 Hopper 02/15/2013 10:22 AH Location BR Location AL Coupler RAIL000031 Hopper 02/15/2013 10:22 AH Location AL RAIL0000009002 SERCOR RAIL000031 Hopper 02/15/2013 10:22 AH Location AL RAIL00000	<u>_</u>	Find Date All	in Equipment ID	3/22/2013 15		Equipment: BNSF488 Type: Hopper Truck Count: 2	1413 Description	ר:	×	
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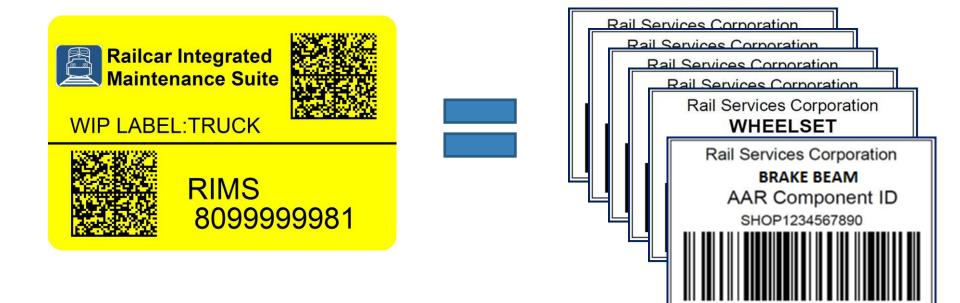
Truck Builder



Component ID labels are not easily accessible after the truck is under the car



Truck Work-In-Progress Label



Truck Builder

- Enter truck component ID's as the truck is assembled
- Attach a WIP Label to the truck which is associated with all truck components
- When the Truck is associated with the car then all truck components are associated automatically by RIMS
- Allows entry of casting data not required by CEPM
- Data can be retrieved from Railinc and stored locally

Truck Builder Station

VIP Tag:			
Wheelsets	Condition Code Recondit	Nominal Wheel Base	
1	Reconditioner AAR Facility Code AMIS	Button Count	
2	Serial Number 1234	Pattern Number	
ideframes	Cast Month 11	Cast Trademark	
suerraines	Cast Year 12	Heat Number	
Left TEST000000001	Design Feature Code	Foundry AAR Facility Code	· ·
Right	AAR ID Code	Heat Treat Load Number	
lolster	Drawing Number	Classification / Reconditioned Date	Select a date
1	Drawing Number Revision	Column Wear Plate Installed	
Recognizes existing 1	D barcodes		

Truck Work-in-Progress Label

- Yellow color to differentiate it from other AAR labels
- Placed on a side frame at an easily accesible location
- Uses XML (like wheelset components)
- 2D Data Matrix Symbology

CASTINGS

Registration of Reconditioned and New

- Side Frames
- Bolsters
- Couplers

Side Frames – Required Data

Side Frames	
company Code	company Code
idNumber	idNumber
C501	AAR Foundry Facility Code
C502	Cast Month
C503	Design Feature Code
C504	AAR ID Code
C505	Pattern Number
C506	Drawing Number
C507	Drawing Number Revision
C508	Serial Number
C509	Heat Number
C510	Heat Treat Load Number
C511	Reconditioner AAR Facility Code
C512	Not Used
C513	Classification / Reconditioned Date
C514	Condition Code
C515	Column Wear Plate Installed
C516	Nominal Wheel Base
C517	Button Count
C518	Cast Year



Bolsters – Required Data

Bolsters	
company Code	company Code
idNumber	idNumber
C401	Facility Code
C402	Cast Month
C403	AAR Design Feature Code
C404	AAR ID Code
C405	Pattern Number
C406	Drawing Number
C407	Drawing Number Revision
C408	Serial Number
C409	Heat Number
C410	Heat Treat Load Number
C411	Reconditioner AAR Facility Code
C412	Cast Trademark
C413	Classification / Reconditioned Date
C414	Condition Code
C415	Pocket Wear Plate Installed
C416	Converted Bolster
C417	Cast Year



Couplers – Required Data

Couplers	
company Code	company Code
idNumber	idNumber
C601	Condition Code
C602	AAR Code Number
C603	Catalog Number
C604	Cast Month
C605	Cast Year
C606	Serial Number
C607	Cavity Number
C608	Conditional Approval
C609	AAR Facility Code
C610	Heat Number
C611	Heat Treat Load Number
C612	Reconditioner AAR Facility Code
C613	Classification Date
C614	Reconditioned Heat Treat Load Number
C615	Reconditioners Tag



RIMS Castings Registration

- Collects casting CEPM data in the shop
- Saved for review before registering with Railinc
- Recall and review old casting data
- New registrations
- Modify a registration
- Delete a registration (nullification)
- Fully customizable entry screens
- Custom data fields

CODeC - Reconditioned Castings Registration

_	ment Data Collector (CODeC)			<u>_0×</u>
File T	ools Window Help			
Com	ponent ID: AARE9540000056	5		Search
S	ideFrame Bols	ster Cou	upler	
	Condition Code	Secondhand •	Drawing Number Revision	
	Cast Month		Serial Number	
	Cast Year		Heat Number	
	Foundry AAR Facility Code	ASFZ	Heat Treat Load Number	
	Design Feature Code		Cast Trademark	
	Reconditioner AAR Facility Code	GRSC	Classification / Reconditioned Date	2/4/2013
	AAR ID Code		Column Wear Plate Installed	
	Pattern Number		Nominal Wheel Base	••••••
	Drawing Number	123EFG	Button Count	••••••
			7	Save Cancel
Соруг	Layout and con customiz	· · · · · · · · · · · · · · · · · · ·	Collector CODeC	Version: 1.1.1.25874

CODeC – Custom Elements

File Tools Window Help History Search Bolster Coupler SideFrame Column Wear Plate 11132 * Qty * Wear Plate Securements Qty Vear *
Bolster Coupler SideFrame Column Wear Plate 11132 * Qty 2 *
Column Wear Plate 11132 * Qty 2 *
Wear Plate Securements Qty
Transdyne Wear Plates 11133 * Qty 1 *
Welded Roof Liners 11111 * Qty 2 *
Brake Beam Wear Plates Qty
Transdyn Lugs Qty
Column Wear Plate Lugs Qty
CEPM Page2 Inventory Add your own custom elements
b
Copyright © AIC 2012, 2013 CODeC Version: 2.2.0.24984

Car Manager – Component View

E Car Manager File Equipment Reports Tools Help Shop Code: AMIS			
Equipment	Find in Component ID Filtered Date All 8/1/2013 5 - 8/1/2013 5 Component ID Component Type Equipm C472200000001 Bolster C472300000001 Coupler C472300000002 Coupler C472100000001 SideFrame	Component ID: C472300000002 Registration Status: Type: COUPLER Association Status: Equipment ID: Disposition: Truck WIP Tag: Comment: Component History Attachments	Not Associated Good
Trucks	C4/2100000001 Siderrame	Condition Code Reconditioned Reconditioner AAR Facility Code AMIS Catalog Number E67CE	Foundry AAR Facility Code MCT Heat Number Heat Treat Load Number
onents		Catalog Number E67CE Cast Month 11 Cast Year 95	Code Number EKK24C05A2500E E Classification Date 7/31/2013
Components		Serial Number 2620 Cavity Number NA	Reconditioned Heat Treat Load Number 5869 Reconditioners Tag
	< m > 4 Results	Conditional Approval	Register > Save > Cancel
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Industrial Enclosures for Truck Builder



- Sealed to NEMA 4 standards (dust and water)
- Internal cooling with heat sink
- 3 Year manufacturer warranty for monitors
- Over 60 stations installed

Ruggedized Computer Hardware



Fully-rugged and sealed to IP65 Meets MIL-STD-810F to protect against dust, water, extreme temperatures and 4-foot drops to concrete.



RIMS Future Releases

Inspections

- Brake Tests
- Reflectorization (decals)
- o Car Grade

Associations

- o Brake Systems
- Cushioning Units
- Yokes
- o Draft Gears
- Truck Builder checks component type through Railinc



Download the presentation www.aicRail.com/CEPM.html



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