

# SECTION 1

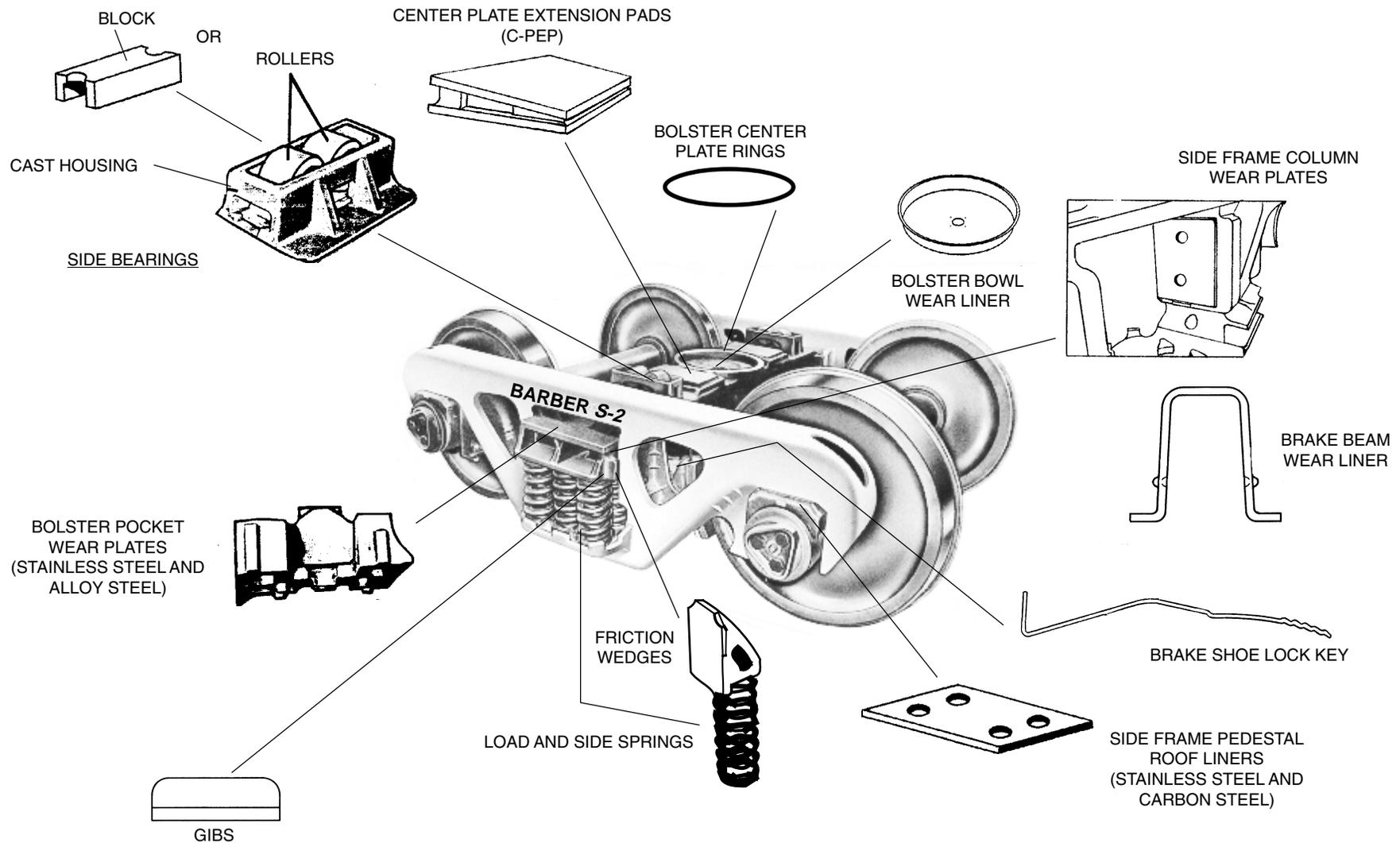
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## GENERAL INFORMATION

**It is impossible to participate in responsibility for truck performance if parts are replaced with other than original BARBER components. BARBER components are matched to interact with one another to achieve optimum performance and service life. Any substitution of components may compromise the performance and the life of the stabilization system.**



# BARBER S-2 STABILIZED TRUCK COMPONENT DIAGRAM



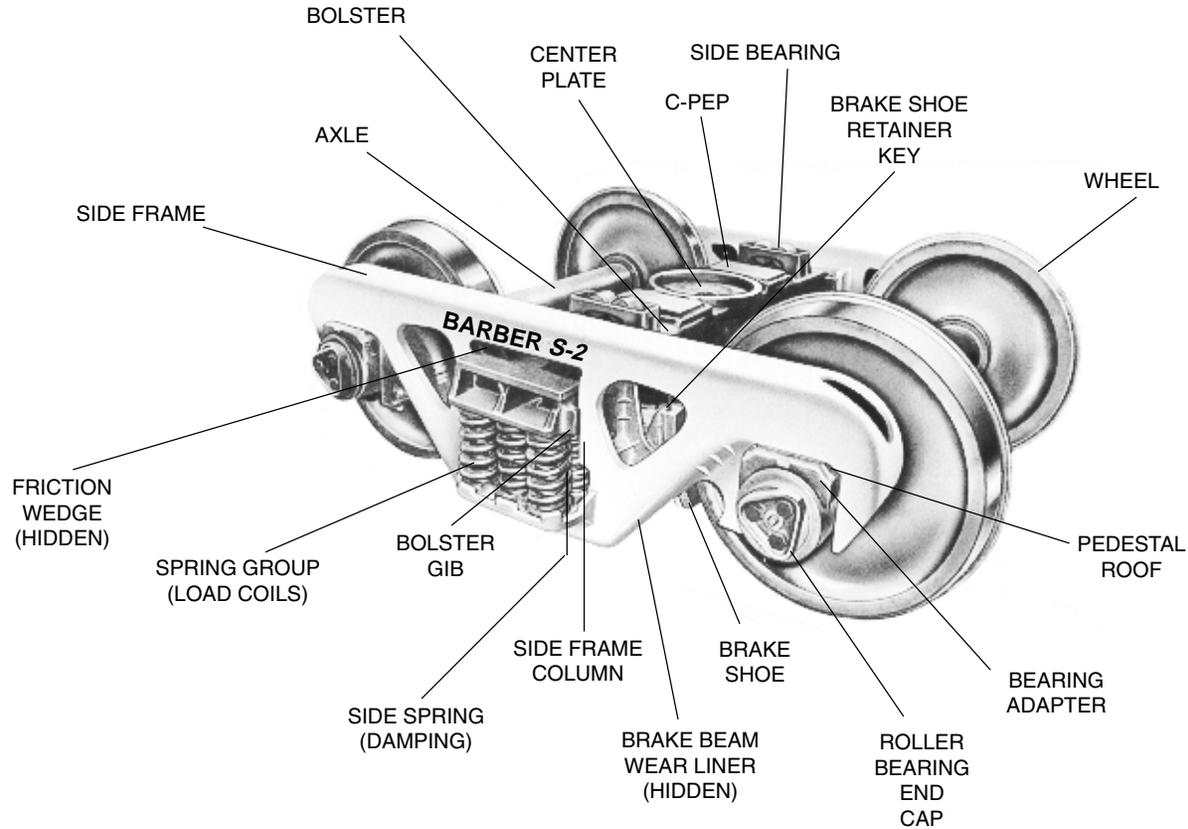
*There's nothing like an original. Always ask for authentic BARBER parts.*



*Standard Car Truck Company*

865 BUSSE HIGHWAY, PARK RIDGE, ILLINOIS 60068, U.S.A.  
 TELEPHONE: 847-692-6050 FAX: 847-692-6299

# FREIGHT CAR TRUCK NOMENCLATURE



*There's only one original. Always ask for genuine BARBER parts.*



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## SIDE FRAMES & BOLSTERS

**CODE NUMBER EXAMPLE**

CODE SPACE NUMBER	1	2	3	4&5	6	7	8	9
CODE NUMBER	<b>F</b>	<b>9</b>	<b>S</b>	<b>07</b>	<b>A</b>	<b>N</b>	<b>U</b>	<b>A</b>

*SIDE FRAME* ————  
*6 1/2" x 12" JOURNAL* ————  
*BARBER S-2* ————  
*STANDARD DESIGN - 3 11/16" SPRING TRAVEL* ————  
*UPRIGHT TENSION MEMBER - GRADE "B" STEEL* ————  
*NARROW PEDESTAL* ————  
*UNIT BRAKE BEAM BRACKET* ————  
*NO SPECIAL FEATURES AT CENTER AREA* ————

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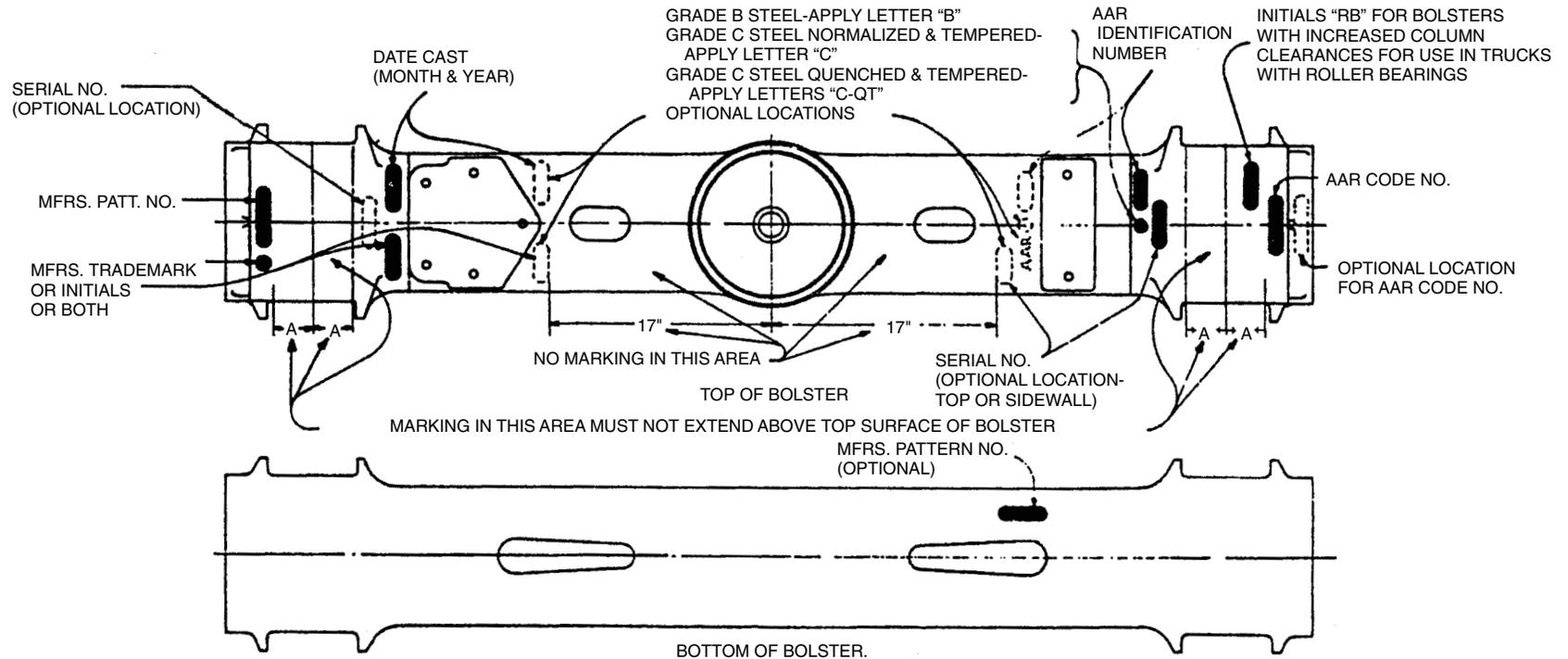
- ALL CODE NUMBERS MUST CONTAIN NINE SYMBOLS
- THE CODE NUMBER WILL BE HYPHENATED AS FOLLOWS: F9S-07AN-UA
- A SPACE MAY BE USED IN PLACE OF A HYPHEN WHEN MARKING A CASTING

SEE DRAWINGS EC-3034 AND EC-3038 FOR AAR CODE FOR DESIGNATING SIDE FRAME AND BOLSTER DESIGN FEATURES. (AAR MANUAL OF STANDARDS AND RECOMMENDED PRACTICES, SECTION D—PART II).

*Don't settle for a copy when you can have an original. Genuine BARBER parts. Always.*



# MARKING DIAGRAM FOR TRUCK BOLSTER WITH AAR ID NUMBER AND AAR CODE NUMBER



JOURNAL SIZE	DIM. "A"
5" x 9"	3 1/2"
5 1/2" x 10"	3 3/4"
6" x 11"	4 1/4"
6 1/2" x 12"	4 1/2"
7" x 12"	5"

## NOTES:

1. MARKING LOCATION SHOULD CONFORM GENERALLY TO THE AREAS INDICATED.
2. AAR IDENTIFICATION NUMBER MUST BE CAST INTEGRAL TO THE CASTING.

## NOTE:

ALL MARKINGS TO BE IN RAISED LETTERS OR FIGURES NOT LESS THAN 3/4" HIGH, PREFERABLY 1" HIGH, UNLESS OTHERWISE SPECIFIED.

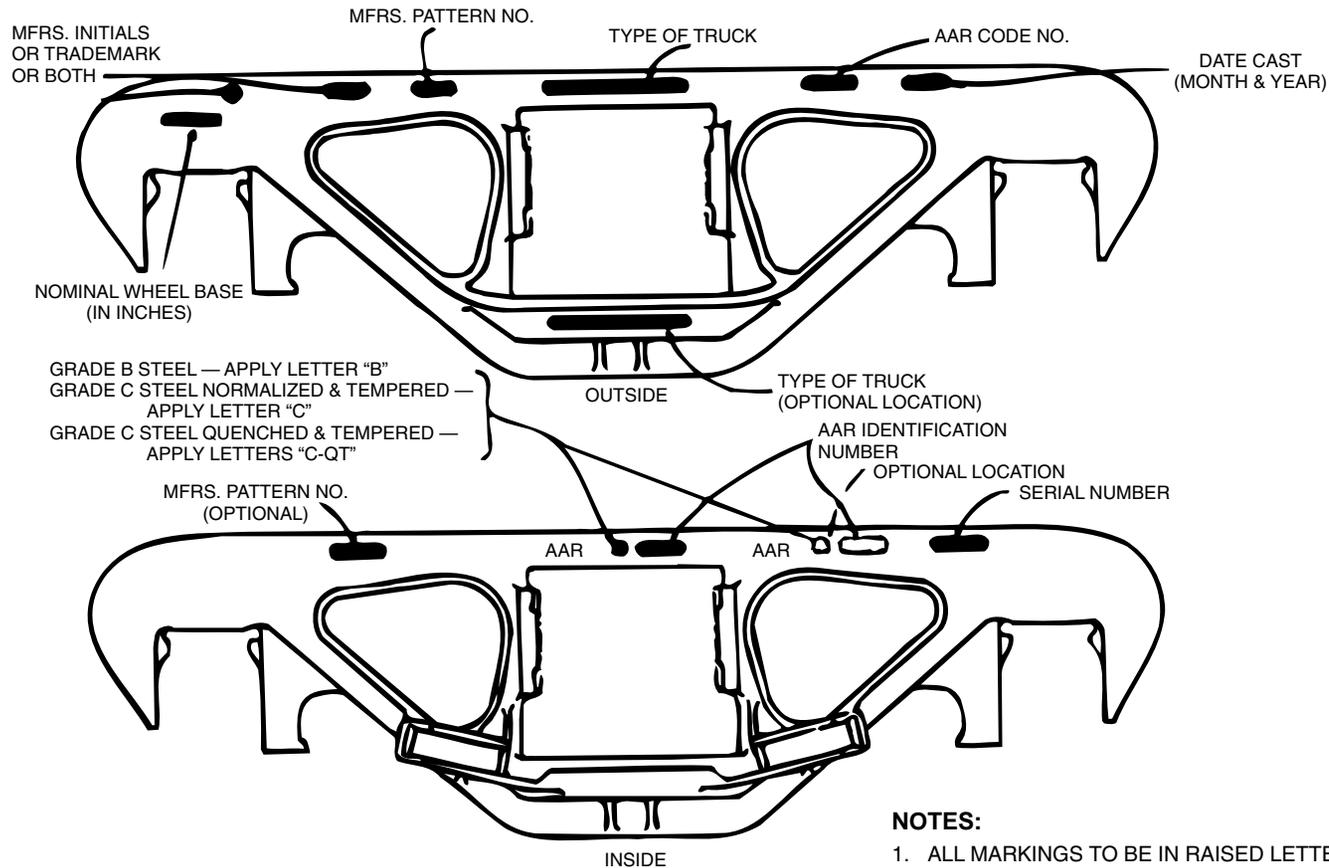
*There are no substitutes. Always use genuine BARBER parts.*



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# MARKING DIAGRAM FOR TRUCK SIDE FRAME WITH AAR ID NUMBER AND AAR CODE NUMBER



## NOTES:

1. ALL MARKINGS TO BE IN RAISED LETTERS OR FIGURES NOT LESS THAN 3/4" HIGH, PREFERABLY 1" HIGH.
2. MARKING LOCATION SHOULD CONFORM GENERALLY TO THE AREAS INDICATED.
3. AAR IDENTIFICATION NUMBER MUST BE CAST INTEGRAL TO THE CASTING.
4. IF SIDE FRAME IS A COMBINATION, TYPE OF TRUCK MAY BE OMITTED IF PROPERLY CODED.

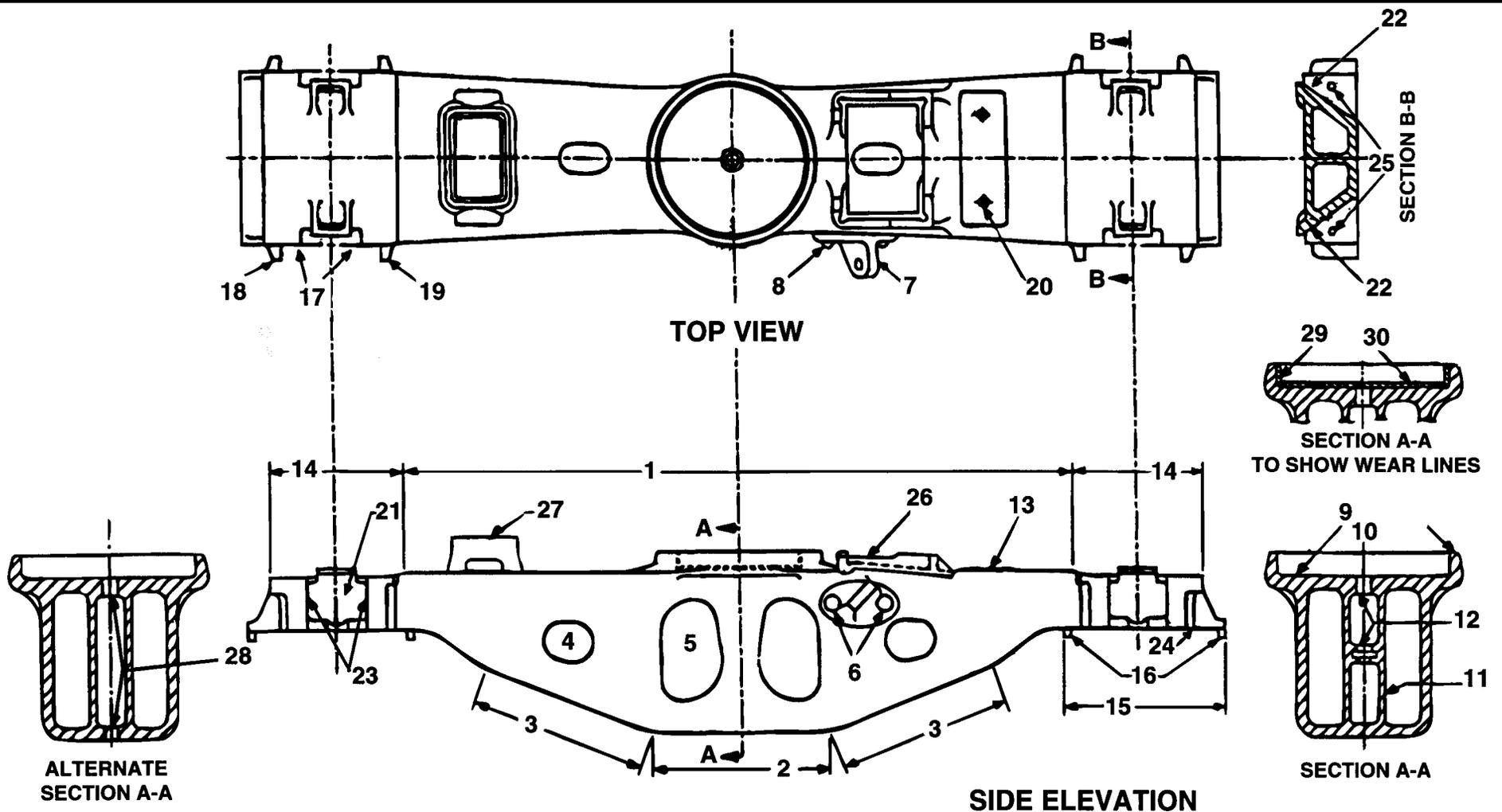
**Stay with an original. Always use genuine BARBER parts.**



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# TRUCK BOLSTER — NOMENCLATURE



**ALTERNATE SECTION A-A**

1. TOP OR COMPRESSION MEMBER
2. BOTTOM CENTER MEMBER
3. DIAGONAL TENSION MEMBER
4. SIDEWALL LIGHTENER HOLES
5. BRAKE ROD HOLES
6. DEAD LEVER LUG RETAINER HOLES
7. DEAD LEVER LUG (RIGHT HAND) SHOWN
8. DEAD LEVER LUG RIVETS OR BOLTS
9. CENTER PLATE BEARING SURFACE

10. CENTER PLATE RIM
11. CENTER POST
12. KING PIN WELL
13. SIDE BEARING PADS
14. BOLSTER ENDS
15. SPRING SEATS

16. SPRING RETAINERS OR BOSSES
17. OUTBOARD AND INBOARD LAND
18. OUTBOARD GIBS
19. INBOARD GIBS
20. SIDE BEARING RIVET OR BOLT HOLES
21. FRICTION WEDGE BOLSTER POCKET

**SIDE ELEVATION**

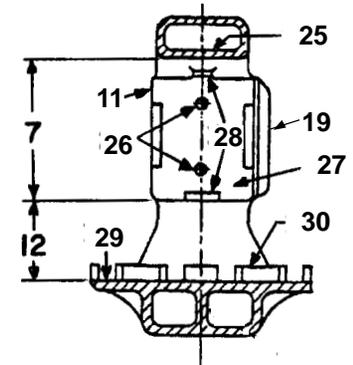
22. BOLSTER POCKET SLOPEWALLS
23. BOLSTER POCKET SIDEWALLS
24. SPRING SEATS
25. FRICTION WEDGE RETAINING PIN OPENINGS
26. C-PEP POCKET
27. SIDE BEARING POCKET
28. LOCKING CENTER PIN OPENING
29. CENTER PLATE VERTICAL RING WEAR LINER
30. CENTER PLATE HORIZONTAL WEAR LINER



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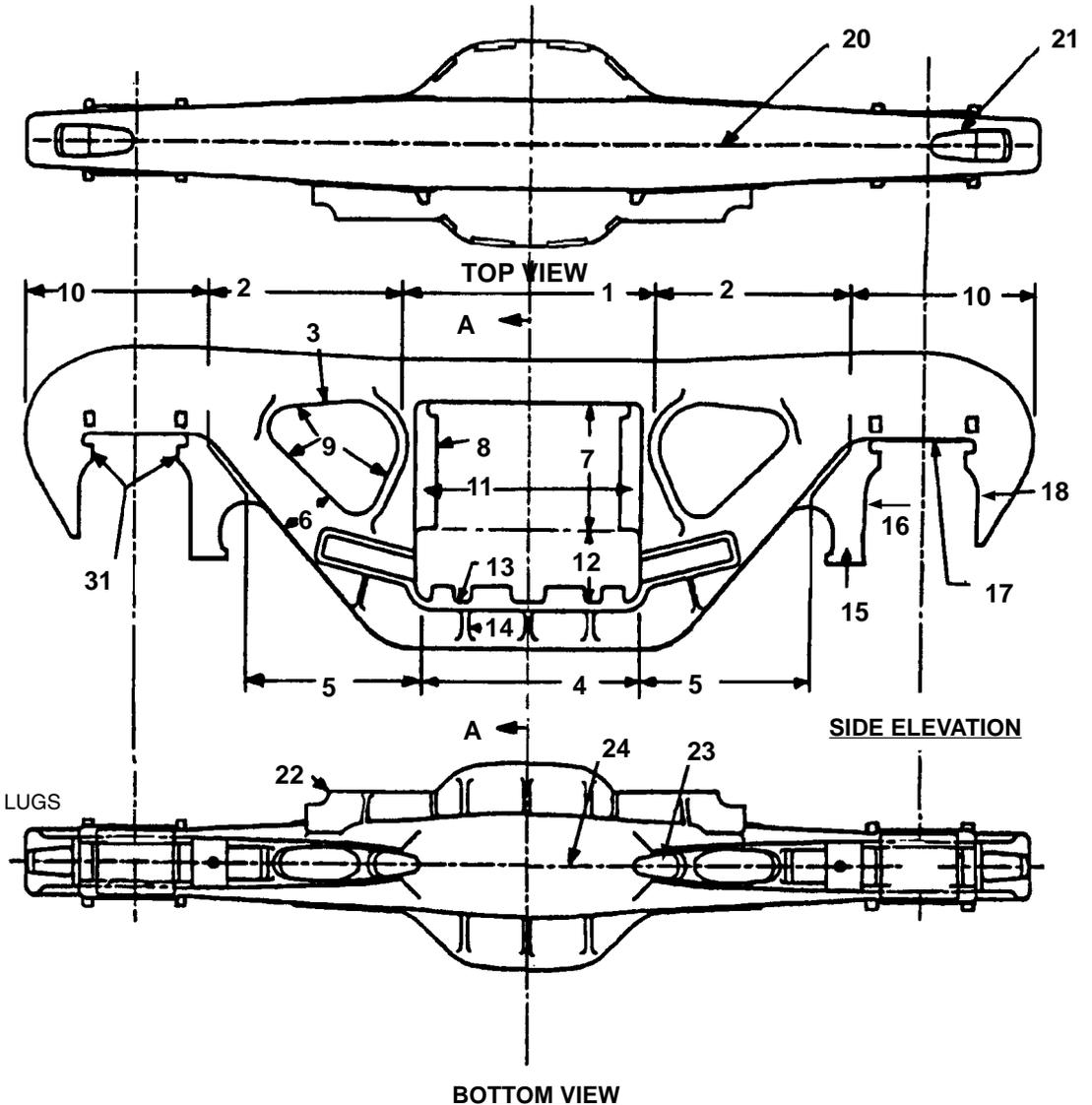
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# SIDE FRAME NOMENCLATURE



**SECTION A-A**  
(FLAT TYPE SPRING SEAT)

- |                               |                                     |
|-------------------------------|-------------------------------------|
| 1. TOP MEMBER CENTER          | 19. BOLSTER ANTI-ROTATION LUGS      |
| 2. COMPRESSION MEMBERS        | 20. PARTING LINE-TOP MEMBER         |
| 3. COMPRESSION MEMBER FLANGES | 21. TOP END OPENINGS                |
| 4. BOTTOM CENTER              | 22. UNIT BRACKETS                   |
| 5. DIAGONAL TENSION           | 23. BOTTOM CENTER DRAIN HOLES       |
| 6. TENSION MEMBER FLANGES     | 24. PARTING LINE-BOTTOM MEMBER      |
| 7. COLUMNS                    | 25. TOP MEMBER BRIDGE               |
| 8. COLUMN FLANGES             | 26. WEAR PLATE RETAINER HOLES       |
| 9. WINDOWS                    | 27. COLUMN FACE                     |
| 10. TOP ENDS                  | 28. COLUMN WEAR PLATE RETAINER LUGS |
| 11. COLUMN GUIDES             | 29. SPRING SEAT                     |
| 12. LOWER BOLSTER OPENING     | 30. SPRING SEAT BOSSES OR LUGS      |
| 13. SPRING SEAT FLANGES       | 31. PEDESTAL THRUST LUGS            |
| 14. SPRING SEAT RIBS          |                                     |
| 15. RETAINER KEY SLOT         |                                     |
| 16. INNER PEDESTAL LEGS       |                                     |
| 17. PEDESTAL ROOF             |                                     |
| 18. OUTER PEDESTAL LEGS       |                                     |



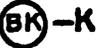
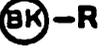
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Make it original BARBER parts every time.



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# LIST OF FOUNDRY IDENTIFICATION MARKINGS

MANUFACTURER	INITIALS	MONOGRAM	MANUFACTURER	INITIALS	MONOGRAM	MANUFACTURER	INITIALS	MONOGRAM
AMERICAN STEEL FOUNDRIES			CONSTRUCCIONES Y AUXILIAR	CAF-SPAIN	NONE	SIDENA	SIDENA	
ALLIANCE	ASF		DOFASCO	DOFASCO		SOUTH AFRICAN RAILWAYS	SAR	
GRANITE CITY	ASF		DRESSER TRANSPORTATION (SYMINGTON WAYNE/GOULD)	GOULD		STANBRAS	SB	NONE
EAST ST. LOUIS	ASF		FABRIC NACIONAL DE VAGOES	FNV	NONE	SUMITOMO	SMI	
BRADFORD KENDALL			HENRICOTT	HENRICOT	NONE	VULCAN	NONE	
KILBURN	NONE		NATIONAL CASTINGS CO.	NM & SC CO		QIQIHAR	QC	NONE
RUNCORN (BRADKEN)	NONE		CICERO			QISHUYAN	QS	NONE
BRITISH STEEL CORP.	NONE		MELROSE PARK			HINDUSTAN DEVELOPMENT CORP.	HDC	NONE
BIRDSBORO CORP.	BIRDSBORO		SHARON					
BUCKEYE STEEL CASTINGS	NONE		NIPPON SHARYO	NISSHA				
BUCYRUS ERIE	BE		OHIO STEEL FOUNDRY CO.	OSF				
CANADIAN STEEL FOUNDRIES	ASF OR ASF & CANCAR OR CSF	NONE	PITTRON (PITTSBURGH STEEL)	PSF	NONE			
COBRASMA	NONE		SCAW	NONE				
COMETNA	NONE		SCULLIN	NONE				
COMSTEEL	NONE							

***Don't Settle for Less, Always Use Original BARBER Parts.***



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## REFERENCE PUBLICATIONS FOR FREIGHT CAR TRUCKS

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### AAR PUBLICATIONS

#### RULES OF INTERCHANGE FOR RAILROAD CARS

- Office Manual
- Field Manual

#### MANUAL OF STANDARDS & RECOMMENDED PRACTICES

- Section A — Specifications, Standards and Practices
- Section B — Couplers and Freight Car Draft Components
  - Part II — Drawgear Inspection and Maintenance Manual
- Section C — Car Construction, Fundamentals and Details
  - Part II, Volume 1 — Specifications for Design, Fabrication and Construction of Freight Cars
  - Part III—Specifications for Tank Cars
- Section D — Trucks and Truck Details
  - M-214 — Classification and Repair Procedures for Used and Reconditioned AAR Approved Side Frames and Bolsters applicable to Interchange Service
  - Part II—Code for Designating Design Features for Side Frames and Truck Bolsters
- Section E — Brakes & Brake Equipment
  - Part II—Maintenance Requirements for Freight Car Air Brake Control Valves and Equipment
- Section G — Wheels & Axles
  - Part II—Wheel and Axle (Shop) Manual
- Section H — Journal Bearings & Lubrication
  - Part II—Roller Bearing (Shop) Manual
  - Part III— Lubrication (Shop) Manual
- Section L — Lettering & Marking of Cars

#### SUPPLEMENT TO THE MANUAL OF STANDARDS & RECOMMENDED PRACTICES

#### CIRCULARS

#### MULTI LEVEL MANUAL

#### INTERCHANGE RULES—ARBITRATION CASES

### MISCELLANEOUS PUBLICATIONS

The Car & Locomotive Cyclopedia  
FRA Safety Standards

### WHERE TO OBTAIN PUBLICATIONS

#### AAR PUBLICATIONS

Central Operations Group  
50 "F" Street N.W.  
Washington, D.C. 20001-1564  
Phone: 202/639-2211  
Fax: 202/639-2156

#### CAR & LOCOMOTIVE CYCLOPEDIA

Railway Educational Bureau  
1809 Capitol Avenue  
Omaha, Nebraska 68102  
Phone: 402/346-4300

#### RAILROAD FREIGHT CAR SAFETY STANDARDS

Railway Educational Bureau  
1809 Capitol Avenue  
Omaha, Nebraska 68102  
Phone: 402/346-4300

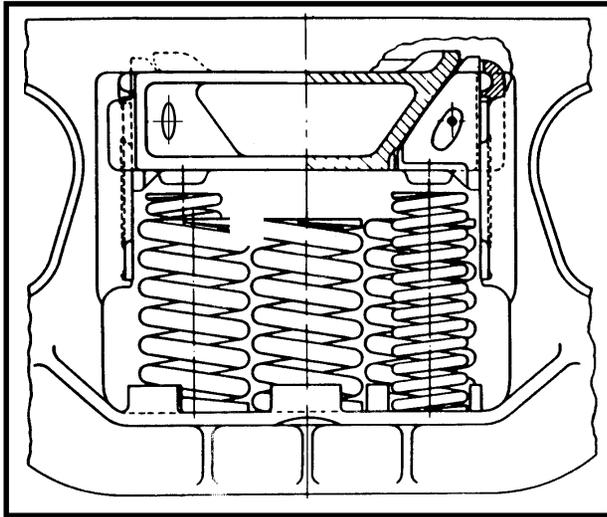
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# HOW TO REPLACE BARBER FRICTION WEDGES AND SIDE SPRINGS



**FIGURE 1**

## **TO REMOVE:**

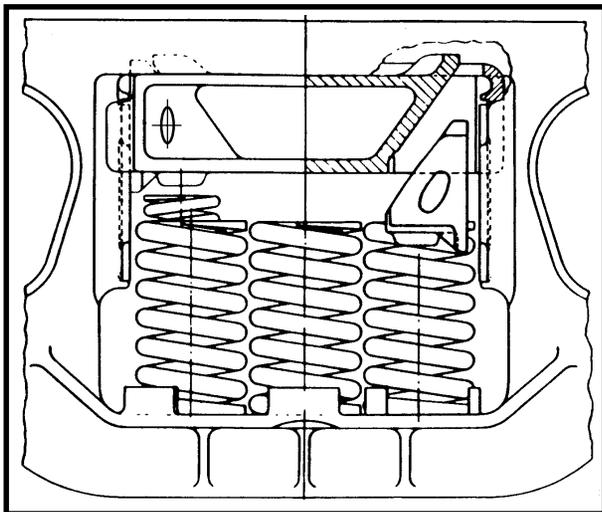
**First**, lift truck bolster off of springs as shown above. Remove outboard corner load springs to gain access to side spring and friction wedge (See Figure 1).

**Remove** side spring. Friction wedge will drop out of bolster pocket as shown (See Figure 2).

## **TO RE-INSTALL:**

(Using new **BARBER** Friction Wedges & Side Springs)

1. Insert friction wedge into bolster pocket.
2. Insert temporary pin where bolster allows.
3. Replace side spring under friction wedge and remove temporary pin.
4. Replace outboard corner load springs.
5. Lower the truck bolster.



**FIGURE 2**

**NOTE:** It is impossible to participate in responsibility for truck performance if parts are replaced with other than original **BARBER** components. **BARBER** components are matched to interact with one another to achieve optimum performance and service life. Any substitution of components may compromise the performance and the life of the stabilization system.

**NEVER LUBRICATE BARBER FRICTION WEDGES OR COLUMN WEAR PLATES!**

**THE REPLACEMENT OF BARBER FRICTION WEDGES AND SIDE SPRINGS IS AS SIMPLE AS CHANGING OUT A LOAD SPRING — NO SPECIAL EQUIPMENT IS REQUIRED!**

*Don't Settle for Less. ALWAYS Use Original "BARBER" Parts!*



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