SECTION 1

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

Standard Car Truck Company

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

SIDE FRAMES & BOLSTERS

CODE NUMBER EXAMPLE

<table>
<thead>
<tr>
<th>CODE SPACE NUMBER</th>
<th>CODE NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>F</td>
</tr>
<tr>
<td>2</td>
<td>9</td>
</tr>
<tr>
<td>3</td>
<td>S</td>
</tr>
<tr>
<td>4 &amp; 5</td>
<td>07</td>
</tr>
<tr>
<td>6</td>
<td>A</td>
</tr>
<tr>
<td>7</td>
<td>N</td>
</tr>
<tr>
<td>8</td>
<td>U</td>
</tr>
<tr>
<td>9</td>
<td>A</td>
</tr>
</tbody>
</table>

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

- 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

There are no substitutes. Always use genuine BARBER parts.

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

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.
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.

Standard Car Truck Company
865 BUSSE HIGHWAY, PARK RIDGE, ILLINOIS 60068, U.S.A.
TELEPHONE: 847-692-6050  FAX: 847-692-6299
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
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
SIDE FRAME NOMENCLATURE

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

Don’t accept anything but the genuine article. Make it original BARBER parts every time.
## LIST OF FOUNDRY IDENTIFICATION MARKINGS

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Initials</th>
<th>Monogram</th>
<th>Manufacturer</th>
<th>Initials</th>
<th>Monogram</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Steel Foundries</td>
<td>ASF</td>
<td>A</td>
<td>Construcciones y Auxiliar</td>
<td>CAF-Spain</td>
<td>None</td>
</tr>
<tr>
<td>Alliance</td>
<td>ASF</td>
<td>G</td>
<td>Dofasco</td>
<td>DOFASCO</td>
<td></td>
</tr>
<tr>
<td>Granite City</td>
<td>ASF</td>
<td>E</td>
<td>Dresser Transportation (Symington Wayne/Gould)</td>
<td>GOULD</td>
<td></td>
</tr>
<tr>
<td>East St. Louis</td>
<td>ASF</td>
<td></td>
<td>Fabric Nacional de Vagoes</td>
<td>FNV</td>
<td>None</td>
</tr>
<tr>
<td>Bradford Kendall</td>
<td>None</td>
<td></td>
<td>Hencott</td>
<td>HENRICOT</td>
<td>None</td>
</tr>
<tr>
<td>Kilburn</td>
<td>None</td>
<td></td>
<td>National Castings Co.</td>
<td>NM &amp; SC CO</td>
<td></td>
</tr>
<tr>
<td>Runcorn (Bradken)</td>
<td>None</td>
<td></td>
<td>Cicerō</td>
<td></td>
<td></td>
</tr>
<tr>
<td>British Steel Corp.</td>
<td>None</td>
<td></td>
<td>Melrose Park</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Birdsboro Corp.</td>
<td>Birdsboro</td>
<td></td>
<td>Sharon</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bucyrus Erie</td>
<td>BE</td>
<td></td>
<td>Nippon Sharyo</td>
<td>NISSHA</td>
<td></td>
</tr>
<tr>
<td>Buckeye Steel Castings</td>
<td>None</td>
<td></td>
<td>Ohio Steel Foundry Co.</td>
<td>OSF</td>
<td></td>
</tr>
<tr>
<td>Canadian Steel Foundries</td>
<td>ASF or ASF &amp; Cancor or CSF</td>
<td></td>
<td>Pittron (Pittsburgh Steel)</td>
<td>PSF</td>
<td>None</td>
</tr>
<tr>
<td>Cobrasma</td>
<td>None</td>
<td></td>
<td>Scaw</td>
<td></td>
<td>None</td>
</tr>
<tr>
<td>Cometna</td>
<td>None</td>
<td></td>
<td>Scullin</td>
<td></td>
<td>None</td>
</tr>
<tr>
<td>Comsteel</td>
<td>None</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Don't Settle for Less, Always Use Original BARBER Parts.**
REFERENCE PUBLICATIONS FOR FREIGHT CAR TRUCKS

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

Don’t accept anything but the genuine article. Make it original BARBER parts every time.
HOW TO REPLACE BARBER FRICTION WEDGES AND SIDE SPRINGS

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.

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!

865 BUSSE HIGHWAY, PARK RIDGE, ILLINOIS 60068, U.S.A.
TELEPHONE: 847-692-6050  FAX: 847-692-6239

REV. 01/2000