Serving Rail & Industry for 40 Years

Rail Handling & Track Tools
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Hand Tools
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Maintenance of Way Parts
Rail Safety Products
Rail Carts
Wheels and Wheel Rebuilding
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Maple Ridge, B.C. V2X 0T6 Canada

Tel: 604.465.8994 Fax: 604.465.4397
railwayparts.com
A COMMITMENT TO QUALITY AND EXCEEDING STANDARDS

INNOVATIVE PARTS & SOLUTIONS:
SOLID SUCCESS IN RAIL SERVICE

From the tools our company designs to lay and maintain track to the parts that keep locomotives and freight cars operating, IPS is here to help you get the job done.

At IPS, the scope of work includes servicing equipment for track maintenance and replacement parts for freight and passenger cars and diesel locomotives. We specialize in rebuilds and repairs. Our team has the expertise needed to help you solve engineering challenges quickly and to deliver the tools and parts needed to keep you on track. Customers openly share their feedback on how impressed they are with our speed, quality and design — all at a competitive price.

OUR COMMITMENT

We employ a comprehensive inspection process to ensure that our products meet or exceed exacting specifications. For example, every IPS rail tong is tested at each stage of the production process and undergoes an initial visual inspection, a magnetic particle test, a load pull test, and a further magnetic particle test by an independent testing company. We also perform periodic ultimate destructive tests which are reviewed to maintain product consistency. As part of this process, each tong is stamped with a serial number to ensure future traceability.

At Innovative Parts and Solutions, everyday is an opportunity for us to tackle new engineering challenges, to design, to innovate, and to impress our customers with quality and responsive service.

DIFFERENT PLACES,
DIFFERENT REQUIREMENTS

At IPS we know that Safety comes first, and safety requirements differ from region to region. While we engineer our parts to the highest standards if your area has specific requirements for testing, safety-colour coding, or measurement standards, just let us know — we are happy to answer to your needs.
IPS provides local, mobile field service for on-site fabrication, installation and machinery repair, as well as local pick-up and delivery.
RAIL HANDLING TOOLS

RAIL TONG “FROG DAWG II” 6.0-TON
IPS’s latest innovation in high-performance, heavy-duty tongs for handling RBM and SSGM frogs. Designed to lift most styles of frogs with a minimum safety factor of 3.5.
Part #: FHD6.0-IPS  Weight: 60 lbs.

RAIL TONG 3.3-TON “LITTLE DAWG”
Little Dawg rail tongs are lightweight yet strong enough to lift single lengths of rail with ease. Designed to open automatically when lowered onto the head of a rail, this tool will handle most rail profiles.
Part #: RHD3.3-IPS  Weight: 15 lbs.

RAIL TONG 6.0-TON “RAIL DAWG II”
Rail Dawg II rail tongs are designed with a working load limit of 6 tons. Manufactured from high-strength alloy steel, these tongs feature two lifting handles and a rugged design for long-term field performance.
Part #: RHD6.0-IPS  Weight: 50 lbs.

RAIL TONG 8-TON “BIG DAWG”
The STRONGEST, SAFEST tongs in the industry - with an impressive 8-ton working load limit! Manufactured from high-strength alloy steel and designed to lift single lengths of rail.
Part #: RHD8-IPS  Weight: 82 lbs.

RAIL TONG 10-TON “MEGA DAWG”
IPS’s newest answer to heavy-weight rail-lifting needs, with a 10-ton working load limit! Manufactured from high-strength alloy steel, designed to lift single lengths of rail, and tested to 50,000 lbs.
Part #: RHD10-IPS  Weight: 90 lbs.

TIMBER TONG 2.2-TON
2.2 Ton rated capacity. Includes replaceable tips designed specifically for lifting wooden timbers.
Part #: TT2.2-IPS  Weight: 22.2 lbs.

Replaceable Tip, Timber Tong, 1/2”
Heat-treated, high-strength 1/2” diameter timber tong tip, complete with nut and lock washer for use with timber tongs. Discounted pricing when purchased in boxes of 12.
Part #: T-500-IPS  Weight: 0.25 lbs.

“JEFFERSON” RAIL THREADER TONG
This unique high-performance rail threader operates like a conventional rail threader, but has 2 rollers mounted on each jaw of the tong to allow the rail to thread through the tongs. Available with a squared handle for use with IPS tongs or with a rounded handle for use with a crane hook.

Square Handle
Part #: 2310045A  Weight: 138 lbs.
Hook Handle
Part #: 2310045B  Weight: 136 lbs.
Replaceable Roller Ass’y, Jefferson Threader
Replacement rollers for the Jefferson Tongs are supplied complete with axle, bearing, lock washer and nut.
Part #: 2310045A-01  Weight: 9.0 lbs.
“BULL DAWG” RAIL THREADER
The IPS Bull Dawg threader is sturdy and designed with high-quality bearings and rollers to ensure long-lasting performance. Available with either square handle for use with IPS rail tongs or the triangular, peaked handle for use with a crane hook. 6-Ton working load limit. Fits 112-141 lbs./51-68 Kg rail profiles.

(Square Handle) Part #: 2310044C Weight: 285 lbs.
(Hook Handle) Part #: 2310044D Weight: 280 lbs.

1 “Bull Dawg” Rail Threader Handle, Square
A heavy-duty handle for the Bull Dawg rail threader (2310044C), designed for lifting with IPS tongs. 1-1/2” diameter bore.

Part #: 2310044C-01 Weight: 10.2 lbs.

2 “Bull Dawg” Rail Threader Handle, Hook
A heavy-duty, galvanized, rounded hook handle for the Bull Dawg Threader (2310044D), designed for lifting with a crane hook. 1-1/2” diameter bore.

Part #: 2310044D-01 Weight: 5.6 lbs.

3 Replaceable Roller Ass’y, Bull Dawg Threader
Replacement pivot bar and roller assemblies for the Bull Dawg ball threader. Each bar measures 15” long x 4” wide and is sold complete with heavy-duty rollers, bearings and axles.

Part #: 1347 Weight: 30 lbs.

4 Pin, Bull Dawg Handle
Pin for the handles on Bull Dawg threaders. Composed of a pin, nut, & cotter pin.

Part #: 2310044C-03 Weight: 6.5 lbs.

5 Pin, Bull Dawg Pivot Bar
Pin for the pivot bars on Bull Dawg threaders (part # 1347).

Part #: 2310044C-02 Weight: 2.2 lbs.

RAIL THREADER “HOUND DAWG”, 5-TON
At just 95 pounds, the Hound Dawg rail threader provides heavy-duty performance in a comparatively light and easy to handle unit. Heavy-duty rollers are designed with protected bearings for long term performance at an astonishing 5-Ton working load limit.

Part #: HDT-500 Weight: 95 lbs.

1 Replaceable Roller Ass’y, Hound Dawg Threader
Heat-treated replacement rollers for the Hound Dawg threader are supplied complete with axles, bearings, lock washers and nuts.

Part #: HDT-500-01 Weight: 9 lbs.

2 Rail Threader “Hound Dawg” Clevis Shackle, 1”
A 1” clevis shackle for use as an addition to the HDT-500 “Hound Dawg”, complete with screw pin.

Part #: HDT-500-SHK Weight: 5.0 lbs.
RAIL THREADER “TITAN”
This robust threader with hinged door is manufactured with four heavy-duty rollers and bearings and is designed for bolted rail. Replacement rollers available. Overall dimensions: 26-1/2" high x 28" wide x 19" deep. 6-Ton WLL.
Part #: 2310004C  Weight: 370 lbs.

REPLACEABLE ROLLER ASS’Y, TITAN THREADER
Replacement roller assemblies for the “Titan” Rail Threader. Each roller measures 4-1/2" diameter x 14" long and comes complete with bearings.
Part #: 2310004C-01  Weight: 44 lbs.

“Irish” Rail Puller, 25 Ton
The Cyclops II rail puller has positive camlock action to prevent slippage when pulling long lengths of rail. The unique cam design will accommodate all rail profiles. The Cyclops II rail puller has a 25-ton working load limit based on a safety factor of 2, is manufactured from high-strength steel alloy, and is designed to pull 1/4 mile lengths of rail. Can be connected to a crane without a shackle.
Part #: 2310000C  Weight: 81 lbs.

IPS can provide customization to comply with local safety regulations, such as our Oceania-compliant safety yellow painted Rail Handling Tools:

RAIL TONG “FROG DAWG II” 6.0-TON, AU
6-Ton “Frog Dawg II” rail tong painted yellow to conform to safety regulations of areas like Australia and New Zealand.
Part #: FHD6.0-AU  Weight: 60 lbs.

RAIL TONG 3.3-TON “LITTLE DAWG”, AU
3.3-Ton “Little Dawg” rail tong painted yellow to conform to safety regulations of areas like Australia and New Zealand.
Part #: RHD3.3-AU  Weight: 15 lbs.

RAIL TONG 6.0-TON “RAIL DAWG II”, AU
6-Ton “Rail Dawg II” rail tong painted yellow to conform to safety regulations of areas like Australia and New Zealand.
Part #: RHD6.0-AU  Weight: 50 lbs.
RAIL HANDLING TOOLS

All IPS tongs are designed for long-term field performance and are made from high-strength alloy steel. Every tong is individually magnetic particle tested, pull test certified, and engraved with a serial number to maximize worker safety.

RAIL TONG 8-TON “BIG DAWG”, AU
8-Ton “Big Dawg” rail tong painted yellow to conform to safety regulations of areas like Australia and New Zealand.
Part #: RHD8-AU    Weight: 82 lbs.

RAIL TONG 10-TON “MEGA DAWG”, AU
10-Ton “Mega Dawg” rail tong painted yellow to conform to safety regulations of areas like Australia and New Zealand.
Part #: RHD10-AU    Weight: 90 lbs.

TIMBER TONG 2.2 TON C/W TIPS, AU
2.2-Ton Timber tongs painted yellow to conform to safety regulations of areas like Australia and New Zealand.
Part #: TT2.2-AU    Weight: 22.2 lbs.

“JEFFERSON” RAIL THREADER TONG W/ HOOK HANDLE, AU
3-Ton “Jefferson” rail threader painted yellow to conform to safety regulations of areas like Australia and New Zealand.
Part #: 2310045B-AU    Weight: 136 lbs.

RAIL THREADER “HOUND DAWG”, 5-TON, AU
5-Ton “Hound Dawg” rail threader painted yellow to conform to safety regulations of areas like Australia and New Zealand.
Part #: HDT-500-AU    Weight: 95 lbs.

RAIL PULLER “CYCLOPS II”, 25 TON, AU
25-Ton “Cyclops II” rail puller painted yellow to conform to safety regulations of areas like Australia and New Zealand.
Part #: 2310000C-AU    Weight: 81 lbs.

RAIL CLAMP C/W TETHER, 25’ ROPE, AU
Part #: RTC-500-AU    Weight: 5.0 lbs.

Rail Clamp c/w Tether, 50’ rope, AU
Part #: RTC-550-AU    Weight: 6 lbs.
Painted Safety Yellow.
RAIL HANDLING TOOLS

RAIL PULLER, LIGHT WEIGHT
Lightweight rail shackle for dragging lengths of rail.
Part #: 2310088A

RAIL SHOE, LIGHTWEIGHT
Lightweight rail shoe to facilitate dragging lengths of rail without catching on terrain or other obstacles.
Part #: RSL-800
Weight: 12.8 lbs.

RAIL SHOE, HEAVY DUTY, 115 LB.
Heavy duty rail shoe (‘nose cone’) to facilitate dragging lengths of rail without catching on terrain or other obstacles.
Part #: RSH-115
Weight: 45.5 lbs.

QUICK CONNECT ASS’Y W/ HANDLES
Quick connect assembly for easy rail movement consisting of one long hook with handle (2362000A-10), one short hook with handle (2362000A-11), and one 3/4” shackle (2362000A-04).
Part #: 2362000D
Weight: 14.3 lbs.

Quick Connect, Long, with Handle
13-1/2” long, 7/8” rod formed with handle to quickly provide link points for rails.
Can be linked with chains or other link devices.
Part #: 2362000A-10
Weight: 6 lbs.

Quick Connect, Short, with Handle
9-3/4” long, 7/8” rod formed with handle to quickly provide link points for rails.
Can be linked with chains or other link devices.
Part #: 2362000A-11
Weight: 5 lbs.

QUICK CONNECT ASS’Y W/ HANDLES★
Fresh from the factory!

QUICK CONNECT ASS’Y, 6’ CHAIN
6’ foot chain with quick connect bar, shackles, and quick connect hook.
Part #: 2362000C-06
Weight: 31 lbs.

Quick Connect Ass’y, 12’ Chain
Part #: 2362000C-12
Weight: 47 lbs.

Quick Connect Ass’y, 16’ Chain
Part #: 2362000C-16
Weight: 58 lbs.

HOOK, QUICK CONNECT
Steel hook used in some quick connect arrangements on the opposite end of a chain from the quick connect link.
Part #: 2362000A-03
Weight: 3.75 lbs.

SHACKLE, 3/4”, QUICK CONNECT
3/4” quick connect shackle for a variety of uses.
Part #: 2362000A-04
Weight: 3.3 lbs.
RAIL HANDLING TOOLS

RAIL CLAMP C/W TETHER
The IPS rail tether clamp is a unique tool that allows rails to be off-loaded safely. Designed to attach quickly to the end of a rail, the tether clamp allows a worker to guide and control a rail during loading and unloading, and minimizes the risk of accidental employee injury and property damage. Rope and attachment clasp included.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTC-500 25' rope</td>
<td>5 lbs.</td>
</tr>
<tr>
<td>RTC-550 50' rope</td>
<td>6 lbs.</td>
</tr>
</tbody>
</table>

GUIDE, RAIL LOADER
Rail loader guide for continuous welded rail applications.

Part #: 2362002A  Weight: 37.5 lbs.

RAILRUNNER
The IPS Railrunner is a heavy-duty rail handling device which is ideal for laying new rail. Designed to be used with wooden or concrete ties, the unique configuration allows units to be locked together into compact stacks to minimize freight costs and storage requirements.

Part #: 2310055A  Weight: 43 lbs.

SWIVEL, EYE-AND-EYE, 8.5-TON
Eye and eye swivel rated for 8.5 tons.

Part #: 2310032B

RAILRUNNER STORAGE SYSTEM
This heavy-duty frame is designed to store up to 50 railrunners and can also be used as a shipping crate. The storage system is designed to be moved with forklift or overhead crane.

Part #: 2310055A-03  Weight: 290 lbs.

RAILRUNNER - STREET VERSION
The IPS Railrunner Street Version is a heavy-duty rail handling device which is ideal for laying new rail. This railrunner is designed for use on concrete or pavement.

Part #: 2310055A-SV  Weight: 41 lbs.

SWIVEL, EYE-AND-EYE, 1", 12500 LBS.
1" galvanized steel eye-and-eye swivel link with 12,500 lbs. working load limit. (WLL applies to straight line pulls only.)

Part #: 2310032A  Weight: 8.7 lbs.

Railrunner Roller
A replaceable roller for the Railrunner track handler.

Part #: 2310055A-02  Weight: 12 lbs.

Railrunner Bearing
A replaceable, heavy-duty pillow block bearing designed to accommodate the 1-1/8" diameter axle on the Railrunner roller.

Part #: 2310055A-04  Weight: 2.6 lbs.
RAIL ALIGNMENT TOOL, PULL, 3 PIECE
Three-part device designed to pull rails back into alignment so that re-railing can proceed. Specially designed 1/2" thick steel plate rail-pull clamps allow cars to pass over the clamps without damage.
Part #: 2310030A  Weight: 20 lbs.

RAIL GAUGER, EXPANDER/PULLER
Aligning tool designed for correcting wide or tight gauge. Alignment is achieved from the base of the rail. A great tool for rail change out applications, restoring gauge quickly and easily in derailment areas, and holding gauge during tie renewal programs.
Part #: 2310030B  Weight: 41 lbs.

RAIL GAUGER, HEAVY-DUTY EXPANDER/PULLER
Heavy-duty aligning tool designed for correcting wide or tight gauge. Alignment can be achieved from either the base or top of the rail. A great tool for rail change out application, restoring gauge quickly and easily in derailment areas, and holding gauge during tie renewal programs.
Part #: 4023-74-IPS  Weight: 63.5 lbs.

RAIL HANDLING TOOLS

GAUGE ROD, INSULATED SINGLE END, 56-1/2", 33 LBS.
1-1/4" x 56-1/2" single end insulated gauge rod, 33 lbs. Used to temporarily maintain gauge where normal rail anchors are insufficient until replacements can be made.
Part #: 2310030F  Weight: 33 lbs.

GAUGE ROD, SINGLE END, 56-1/2", 28 LBS.
1-1/4" x 56-1/2" single end industrial gauge rod, 28 lbs. 72" overall with 9" thread. Used to temporarily maintain gauge where normal rail anchors are insufficient until replacements can be made.
Part #: 2310030E  Weight: 28 lbs.

ROD, DOUBLE END GAUGE, NON-INSULATED
Heavy-duty aligning tool designed for correcting wide or tight gauge. Alignment is achieved from the base of the rail. A great tool for rail change out application, restoring gauge quickly and easily in derailment areas, and holding gauge during tie renewal programs.
Part #: 4127-02  Weight: 38 lbs.

TRACK JACK, 15-TON TALL
15-Ton Track Jack with a 13" stroke. Grooved lift toe is 2-1/2" x 3-1/4". Solid cast aluminum base remains lightweight while maintaining superlative strength and stability, with heat-treated, forged components.
Part #: TJ-A17  Weight: 50 lbs.

Track Jack, 15-Ton Short
15-Ton Track Jack with a 5-1/4" stroke. Grooved lift toe is 2-1/2" x 3-1/4".
Part #: TJ-A5  Weight: 30 lbs.
AXLE SHAFT, ROLLER, UHMW
1-1/16” diameter x 9-1/4” long UHMW CWR axle roller shaft.
Part #: 0808119A  Weight: 3 lbs.

ROLLER W/ BEARINGS, CWR BOTTOM, 6” X 11-3/4”★
6” x 11-3/4” CWR bottom loading/unloading roller, including roller bearings (806929).
Part #: 806934  Weight: 65 lbs.

ROLLER, CWR TOP, 6” X 9-1/2”★
6” od x 9-1/2” long top roller for CWR cars. Cylinder roller is tapered in centre down to 4” od to guide rails.
Part #: 806940  Weight: 40 lbs.

PIN, CWR ROLLER, 2” X 5”★
2” x 5” steel roller pin for CWR rollers.
Part #: 807093  Weight: 4 lbs.

ROLLER, RAIL TRAIN
Rail train rollers with internal, protected bearings. Often used on CWR cars.
Part #: 0806144A

SPACER, CWR, 2-1/2”, STEEL
2-1/2” od, 1.98” id x 1/2” steel spacer for CWR trains.
Part #: 0806096A  Weight: 0.25 lbs.

NUT, JAM, 1-1/4”-12 NF
1-1/4”-12 thin jam nut for CWR Trains.
Part #: 0806142A  Weight: 0.5 lbs.

ROLLER, CWR BOTTOM, 6” X 11-3/4”
6” od x 11-3/4” thick bottom roller for CWR cars.
Part #: 806935  Weight: 65 lbs.

PLATE, CWR CLAMP★
14” long x 5” wide, 1-1/4” thick steel CWR clamp plate with three placement holes and two 4-3/8” high U-hooks.
Part #: 0806148A  Weight: 23 lbs.

WASHER, CWR, 5-1/4”, ALUMINUM-BRONZE
5-1/4” od, 2-5/8” id aluminum-bronze bottom roller washer for CWR cars. 0.483” thick.
Part #: 782579  Weight: 2 lbs.
RAIL HANDLING TOOLS

BOX, SLAG, THERMITE
24" long x 18" wide slag box with handles and 4 D-ring lifting lugs, designed for thermite use. Dual-latch release handle allows for load to be emptied via base trap.
Part #: 0923185A  Weight: 77.5 lbs.

CLIP, COURTING
Courting clip for thermite welding applications.
Part #: 0806147A  Weight: 4.5 lbs.

GROUNDING CABLE ASS’Y, 5’
Grounding cable assembly, 5 foot, composed of right and left grounding clamp, associated screws, and insulated orange wire. Used for Thermite operations.
Part #: 0808020A

RAIL GRINDER ATTACHMENT
An innovative attachment to assist in grinding down rail after welding.
Part #: RGA3825  Weight: 27.5 lbs.

SHEAR, LATCH STYLE RAIL, 115 LBS.
Latch Style Rail Shear (specific to rail size) made from stainless steel with a hard contact edge. It is built to remove excess material from a joint after a CWT weld.
Part #: 0808011A
Shear, Latch Style Rail, 136 lbs.
Part #: 0808012A
Shear, Plasser Style Rail, 115 lbs.
Part #: 0808013A
Shear, Plasser Style Rail, 136 lbs.
Part #: 0808014A

WEDGE, 6” X 3/4”, 1-1/2” THICK
Steel wedge, 6” long x 3/4” high, 1-1/2” thick. Used to hand-level rail for thermite welding crews.
Part #: 0806108A  Weight: 1 lb.
Wedge, 10” x 2”, 1” thick
Part #: 0806107A  Weight: 2.8 lbs.
Wedge, 13” x 3”, 1” thick
Part #: 0806109A  Weight: 5.5 lbs.
Wedge, 18” x 2”, 1-1/2” thick
Part #: 0806110A  Weight: 7.6 lbs.

WEDGE, 10” X 2”, 1” thick
Part #: 0806107A  Weight: 2.8 lbs.
Wedge, 13” x 3”, 1” thick
Part #: 0806109A  Weight: 5.5 lbs.
Wedge, 18” x 2”, 1-1/2” thick
Part #: 0806110A  Weight: 7.6 lbs.
IPS supplies cutting, grinding, web-cleaning and grit-flap wheels from Flexovit. Some examples are below, but other sizes and functions are available upon request.

### GRINDING DEVICES

<table>
<thead>
<tr>
<th>Part#</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>F5685</td>
<td>Cut Off Wheel, Rail Saw, High-Performance, 16”</td>
<td>Flexovit zirconia grain 16” diameter high performance rail saw blade, for rail profiles 120 lbs. and up. Used primarily for cutting rail. Max 5,400 rpm.</td>
</tr>
<tr>
<td>F6685</td>
<td>Cut Off Wheel, Rail Saw, High-Performance, 14”</td>
<td>Zirconia grain 14” diameter high performance rail saw blade, for rail profiles 120 lbs. and up. Used primarily for cutting rail. Max 4,800 rpm.</td>
</tr>
<tr>
<td>F6681</td>
<td>Cut Off Wheel, Rail Saw, High-Speed, 16”</td>
<td>Zirconia grain 16” diameter high performance rail saw blade, for rail profiles 120 lbs. and up. Used primarily for cutting rail. Max 4,800 rpm.</td>
</tr>
<tr>
<td>F5681</td>
<td>Cut Off Wheel, Rail Saw, High-Speed, 14”</td>
<td>Zirconia grain 14” diameter high performance rail saw blade, for rail profiles 120 lbs. and up. Used primarily for cutting rail. Max 5,400 rpm.</td>
</tr>
<tr>
<td>A1580</td>
<td>Cut Off Wheel, Type 27, 5” x .04” x 7/8”</td>
<td>5” x .04”, 7/8” drive, type 27 Flexovit cut off wheel for rail grinding applications. Max 12,000 rpm.</td>
</tr>
<tr>
<td>N5259S</td>
<td>Grinding Stone, 5” x 2”, 5/8”</td>
<td>5” x 2”, 5/8-11 drive, steel reinforced type 11 Flexovit tapered grinding stone for rail grinding applications. Max 7,200 rpm.</td>
</tr>
<tr>
<td>N6059</td>
<td>Grinding Stone, 6” x 1”, 5/8”</td>
<td>6” x 1”, 5/8-11 drive, type 1 Flexovit reinforced grinding stone for rail grinding applications. Max 6,000 rpm.</td>
</tr>
<tr>
<td>N6289S</td>
<td>Grinding Stone, 6” x 3”, 5/8”</td>
<td>6” x 3”, 5/8-11 drive, steel reinforced type 6 Flexovit grinding stone for rail grinding applications. Max 6,000 rpm.</td>
</tr>
<tr>
<td>N8058</td>
<td>Grinding Stone, 8” x 1”, 1”</td>
<td>8” x 1”, 1” drive, Flexovit type 1 reinforced grinding stone for rail grinding applications. Max 6,000 rpm.</td>
</tr>
<tr>
<td>N8059</td>
<td>Grinding Stone, 8” x 1”, 5/8”</td>
<td>8” x 1”, 5/8” drive, Flexovit type 1 reinforced grinding stone for rail grinding applications. Max 6,000 rpm.</td>
</tr>
<tr>
<td>A8224H</td>
<td>Grinding Wheel, 9” x 1/4”, 5/8”</td>
<td>9” x 1/4”, 5/8-11 drive, type 1 reinforced grinding stone for rail grinding applications. Max 6,800 rpm.</td>
</tr>
<tr>
<td>Z5010NT</td>
<td>Grit Flap Disc, Type 29 ZA80, 5” x 7/8”</td>
<td>5” x 7/8”, 5/8-11” drive Type 29 Flexovit ZA80 grit flap disc. Max 12,000 rpm.</td>
</tr>
<tr>
<td>Z5005NT</td>
<td>Grit Flap Disc, Type 29 ZA60, 5” x 7/8”</td>
<td>5” x 7/8”, 5/8-11” drive Type 29 Flexovit ZA60 grit flap disc. Max 12,000 rpm.</td>
</tr>
<tr>
<td>Z5000NT</td>
<td>Grit Flap Disc, Type 29 ZA40, 5” x 7/8”</td>
<td>5” x 7/8”, 5/8-11” drive Type 29 Flexovit ZA40 grit flap disc. Max 12,000 rpm.</td>
</tr>
<tr>
<td>Z5020NT</td>
<td>Grit Flap Disc, Type 29 ZA120, 5” x 7/8”</td>
<td>5” x 7/8”, 5/8-11” drive Type 29 Flexovit ZA120 grit flap disc. Max 12,000 rpm.</td>
</tr>
<tr>
<td>F5359</td>
<td>Web Cleaning Wheel, 12” x 1/4” x 20mm</td>
<td>12” x 1/4”, 20mm Flexovit rail web cleaning wheel. Max 6,300 rpm.</td>
</tr>
</tbody>
</table>

### GUARD, STIHL RAIL SAW

9-7/8” diameter saw guard designed for Stihl TS420 rail saws. Painted Red.

- **Part #:** 2310171A
- **Weight:** 7 lbs.

### SHIELD, SPARK

36” wide x 44” high hinged rail cutting spark shield.

- **Part #:** 2310085A
- **Weight:** 29.5 lbs.
**BOX, HEAVY DUTY TOOL STORAGE**

This heavy-duty, lockable tool storage box measures 23-3/8” long x 10-5/8” wide x 13-7/8” high. Ideal for securing portable tool kits or other portable equipment in the field. Available with rear hinge (2310025A) or top hinge (2310025B). (Blue toolbox not included.)

Part #: 2310025A (Rear Hinge)  
Part #: 2310025B (Top Hinge)  
Weight: 79 lbs.

**BOX, STORAGE, W/ CHECKER PLATE LID**

Lockable battery box, 11” x 11” x 24”. Box # 2310023A is a sealed unit; box # 2310022A has a battery switch mount and access port for cables.

Part #: 2310023A  
Weight: 56 lbs.

**BOX, PARTS MANUAL, STEEL**

15” tall x 14” wide x 6”. Lockable, wall-mountable, and ideal for manuals, parts books, or other field documents.

Part #: 2310019B  
Weight: 6 lbs.

**BOX, 8-D BATTERY**

11” x 11” x 24” Checker plate storage box similar to part # 2310023A, but with battery switch mount and access hole in the back of box for cables.

Part #: 2310022A  
Weight: 56 lbs.

**BOX, PARTS MANUAL, STEEL**

Steel box with hinged lid and lockable catch. 4” deep x 12” wide x 14” high in front and 16” high in back.

Part #: 2310019A  
Weight: 11 lbs.

**BOX, SPLIT HINGE RADIO**

Steel box with split-hinge frame, hinged lid and lockable catch. 3” deep X 11” wide X 12” high in front and 14” high in back.

Part #: 2310020A  
Weight: 8.4 lbs.

**LOCK BOX, HEAVY DUTY KEY**

Heavy-duty, steel lock box ideal for securing equipment keys. 4” x 4” x 3”, heavy duty hasp and hinged lid, hammer-coat finish. Four mounting holes in base.

Part #: 2310061A  
Weight: 2.5 lbs.
IPS manufactures 4-sided adzer machine cutting heads in 16", 19" and 21" diameters. Precision machined from high-strength steel and hard-faced in high wear areas. Adzer bits sold separately.

**ADZER BIT, ROUND**
Rectangular adzer bits with carbide cutting inserts for reliable rail tie adzing. Designed to fit all IPS adzer heads, and accepting a standard 3/4" diameter bolt.
Part #: 731421-IPS  Weight: 1.5 lbs.

**ADZER BIT BOLT KIT**
IPS Adzer bit bolt kit comes complete with four 3/4" x 5" long grade 8 bolts, twelve stover nuts and washers. Also available in 6-bolt sets (731423-IPS).
Part #: 731422-IPS  Weight: 4.6 lbs.

**BIT, UNDER CUTTER**
The undercutter bit goes on an Adzer machine, and is used to adze ties.
Part #: 731426-IPS (1 piece)  Part #: 731427-IPS (4 piece)

**BUSHING, TIE CRANE, 3.17", PHENOLIC**
3.168" od, 3-3/16" id x 3/16" thick custom phenolic insulator washer for 16" wheels on tie cranes and adzer cribbers.
Part #: 9050493  Weight: 0.03 lbs.

**PIN, ROD END, 1" X 5-7/8"**
1" diameter x 5-7/8" long rod end pin with clipped 1-1/2" diameter shoulder.
Part #: 53.0972-A  Weight: 1.4 lbs.

**WASHER, TIE CRANE, 4-1/2", PHENOLIC**
4-1/2" od, 3.055" id x 3/32" thick custom phenolic insulator washer for tie cranes and adzer cribbers.
Part #: 9000258  Weight: 0.07 lbs.

**BUSHING, TIE CRANE, 3.37", PHENOLIC**
A tapered 3.197" long phenolic insulating sleeve for tie cranes and adzer cribbers. 3.37" od (maximum) and 2.801" id (minimum).
Part #: 9010682  Weight: 0.1 lbs.

**RAIL SWEEP, ROTATING**
Rotating rail sweep comprised of 25 double-reinforced, braided-wire bristles weld-mounted onto a heavy-duty broom hub. Designed for adzer cribber machines.
Part #: RRS-25-IPS

**MAINTENANCE OF WAY PARTS**

**ADZER CUTTING HEAD, 4-SIDED**
IPS manufactures 4-sided adzer machine cutting heads in 16", 19" and 21" diameters. Precision machined from high-strength steel and hard-faced in high wear areas. Adzer bits sold separately.

**ADZER BIT, RECTANGULAR**
Rectangular adzer bits with carbide cutting inserts for reliable rail tie adzing. Designed to fit all IPS Adzer heads, and accepting a standard ¾" diameter bolt.
Part #: 731420-IPS  Weight: 2.2 lbs.

**ADZER BIT, RECTANGULAR, ADVANCED**
Rectangular Adzer bits with mining grade carbide cutting inserts for reliable rail tie adzing. Designed to fit all IPS Adzer heads, and accepting a standard 3/4" diameter bolt. Can be rotated once.
Part #: 731425-IPS  Weight: 1.5 lbs.

**ADZER BIT, ROUND**
IPS offers round carbide adzer bits for Adzer machines. Supplied bubble-wrapped in boxes of 12 bits. 3-1/4" outside diameter.
Part #: 731420-IPS  Weight: 2.2 lbs.

**ADZER BIT, ROUND, ADVANCED**
Round Adzer bits with mining grade carbide cutting inserts for reliable rail tie adzing. Designed to fit all IPS Adzer heads, and accepting a standard 3/4" diameter bolt. Can be rotated once.
Part #: 731425-IPS  Weight: 1.5 lbs.

**ADZER CUTTING HEAD, 6-SIDED**
IPS manufactures 6-sided adzer machine cutting heads in 19" and 21" diameters with both 2" and 3" tapers. Precision machined from high-strength steel and hard-faced in high wear areas. Adzer bits sold separately.

**ADZER BIT BOLT KIT**
IPS Adzer bit bolt kit comes complete with four 3/4" x 5" long grade 8 bolts, twelve stover nuts and washers. Also available in 6-bolt sets (731423-IPS).
Part #: 731422-IPS  Weight: 4.6 lbs.

**RAIL SWEEP, ROTATING**
Rotating rail sweep comprised of 25 double-reinforced, braided-wire bristles weld-mounted onto a heavy-duty broom hub. Designed for adzer cribber machines.
Part #: RRS-25-IPS

**WASHER, TIE CRANE, 4-1/2", PHENOLIC**
4-1/2" od, 3.055" id x 3/32" thick custom phenolic insulator washer for tie cranes and adzer cribbers.
Part #: 9000258  Weight: 0.07 lbs.
**BODY STOP, ANCHOR APPLICATOR, LH**

1-3/4” case-hardened alloy steel left hand body stop for anchor applicator machines. 7” x 8-1/2” overall dimensions.  

Part #: 1878-0194  
Weight: 17 lbs.

**BODY STOP, ANCHOR APPLICATOR, RH**

1-3/4” case-hardened alloy steel right hand body stop for anchor applicator machines. 7” x 8-1/2” overall dimensions.  

Part #: 1878-0194  
Weight: 17 lbs.

**BUSHING, ANCHOR APPLICATOR, 1-11/16”, NYLON**

1-11/16” od, 1-1/2” id x 2” long nylon bushing for anchor applicator machines.  

Part #: 2211-9388  
Weight: 0.05 lbs.

**BUSHING, ANCHOR APPLICATOR, 3/4”, STEEL**

3/4” od, 1/2” id x 3/4” long steel bushing for anchor applicator machines.  

Part #: 7299-2555  
Weight: 0.05 lbs.

**BUSHING, ANCHOR APPLICATOR, 1-3/4”, STEEL**

1-3/4” od, 1-1/2” id x 1-1/2” long steel bushing for anchor applicator machines, with external lubrication groove.  

Part #: 2211-9562  
Weight: 0.3 lbs.

**BUSHING, ANCHOR APPLICATOR, 3/4”, STEEL**

1-1/2” od, 1-1/2” id x 1-7/8” long bronze bushing with a 2-1/4” shoulder for anchor applicator machines.  

Part #: 2211-9851  
Weight: 0.5 lbs.

**BUSHING, ANCHOR APPLICATOR, 1-3/4”, BRONZE**

1-3/4” od, 1-1/2” id x 1-7/8” long bronze bushing with a 2-1/4” shoulder for anchor applicator machines.  

Part #: 2211-9851  
Weight: 0.5 lbs.

**CAM ROLLER & BUSHING ASS’Y**

3/4” od, 1/4” id, x 13/16” long overall, this assembly comprises three roller bushings in a steel-bronze-steel arrangement for anchor applicator machines.  

Part #: 9668-0070  
Weight: 0.08 lbs.

**CHUTE, SADDLE**

Heavy duty saddle chute for anchor applicator machines. Overall dimensions 4” x 9” x 9-1/4”, with inner sides reinforced and tapped.  

Part #: 2096-2325  
Weight: 19 lbs.

**FIXED LINK ASS’Y**

This link assembly for anchor applicators includes four installed 1-1/2” id steel bushings (2211-9397). Painted yellow.  

Part #: 9668-0041  
Weight: 23 lbs.

**PAD, ANCHOR APPLICATOR**

Anchor applicator pad for anchor applicators; 7-1/2” x 1-7/8” x 2” case hardened alloy steel.  

Part #: 1878-0206  
Weight: 5.5 lbs.
# MAINTENANCE OF WAY PARTS

## IPS high-strength steel pins for Anchor Applicators:

<table>
<thead>
<tr>
<th>Part#</th>
<th>Name</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>5423-6950</td>
<td>Pin, Anchor Applicator, 7/16&quot; x 6-1/2&quot;</td>
<td>7/16&quot; diameter x 6-1/2&quot; long steel chute door pin for anchor applicator machines, with welded 1&quot; od x 1/2&quot; thick washer.</td>
<td>0.31 lbs.</td>
</tr>
<tr>
<td>5426-0432</td>
<td>Pin, Anchor Applicator, 3/4&quot; x 3-9/16&quot;</td>
<td>3/4&quot; diameter x 3-9/16&quot; long steel pin for Nordco anchor applicator machines, with two 1/4&quot; pin holes.</td>
<td>1.08 lbs.</td>
</tr>
<tr>
<td>5426-3922</td>
<td>Pin, Anchor Applicator, 3/4&quot; x 7-1/4&quot;</td>
<td>3/4&quot; diameter x 7-1/4&quot; long steel pin for anchor applicator machines, with two 3/16&quot; pin holes.</td>
<td>0.9 lbs.</td>
</tr>
<tr>
<td>5425-9645</td>
<td>Pin, Anchor Applicator, 1&quot; x 3&quot;</td>
<td>1&quot; diameter x 3&quot; long steel rod clevis pin for anchor applicator machines, with one 1/4&quot; pin hole.</td>
<td>0.66 lbs.</td>
</tr>
<tr>
<td>5404-6752</td>
<td>Pin, Anchor Applicator, 1&quot; x 3-1/2&quot;</td>
<td>1&quot; diameter x 3-1/2&quot; long steel cylinder yoke pin for anchor applicator machines, with 1-5/16&quot; diameter shoulder. One 3/16&quot; pin hole.</td>
<td>0.81 lbs.</td>
</tr>
<tr>
<td>5404-7190</td>
<td>Pin, Anchor Holder, 1&quot; x 4-3/4&quot;</td>
<td>1&quot; diameter x 4-3/4&quot; C1018 pin with welded 5/8&quot; SAE washer at end, for anchor applicators. 2 pins usually required per machine.</td>
<td>1 lb.</td>
</tr>
<tr>
<td>5426-0150</td>
<td>Pin, Anchor Applicator, 1&quot; x 4-15/16&quot;</td>
<td>1&quot; diameter x 4-15/16&quot; long steel center support pin for anchor applicator machines, with two 3/16&quot; pin holes.</td>
<td>1 lb.</td>
</tr>
<tr>
<td>5426-2360</td>
<td>Pin, Anchor Applicator, 1&quot; x 6-7/8&quot;</td>
<td>1&quot; diameter x 6-7/8&quot; long steel end cylinder pin for anchor applicator machines, with two 1/8&quot; pin holes.</td>
<td>1.5 lbs.</td>
</tr>
<tr>
<td>5425-9996</td>
<td>Pin, Anchor Applicator, 1-1/4&quot; x 4-1/4&quot;</td>
<td>1-1/4&quot; diameter x 4-1/4&quot; long steel pin for anchor applicator machines, with two 3/16&quot; pin holes.</td>
<td>1.45 lbs.</td>
</tr>
</tbody>
</table>

## ROD EYE, 3"

3" od, 1-1/2" id steel rod eye for anchor applicators. 1-1/2" wide eye base with 1" NF internal thread.

Part #: 6606-8230  Weight: 2.6 lbs.

## SHAFT, CENTER TOGGLE, 1-1/2" X 4-5/8"

1-1/2" diameter x 4-5/8" long center toggle shaft for anchor applicator machines, with multiple locating holes.

Part #: 5426-6910  Weight: 2.2 lbs.

## SHAFT, FIXED LINK, 1-1/2"

1-1/2" diameter fixed link shaft for anchor applicators, through-drilled and with grease nipple for maintenance.

Part #: 5404-7230  Weight: 2 lbs.

## SPRING KEEPER, ANCHOR APPLICATOR, 7/8", STEEL

7/8" diameter spring keeper with 1-3/4" diameter shoulder. 3/4" high, used for anchor applicator machines.

Part #: 6155-8800  Weight: 0.22 lbs.

## SHOE, CLAMP

1-1/2" x 1-5/16" x 2-1/2" clamp shoe for the anchor tool on anchor applicators. 1/2" machined gap.

Part #: 1878-0154  Weight: 1.1 lbs.

## TURNBUCKLE

Turnbuckle mount for anchor applicators. 3" diameter threaded mount, 8-3/4" total height, with 1-1/2" id steel bushings in the turnbuckle arms. Painted safety yellow.

Part #: 6605-8846  Weight: 14 lbs.

## TURNBUCKLE HOUSING, ANCHOR APPLICATOR

Precision milled steel alloy hexagonal housing for anchor applicator turnbuckles (part # 6606-8865).

Part #: 8290-0012  Weight: 4.8 lbs.
## MAINTENANCE OF WAY PARTS

### BUSHING, AUTOLIFTER, 2-1/2”, BRONZE
2-1/2” od, 1-1/4” x 1/2” long, with 1-5/8” od x 9/32” inner shoulder.

| Part #: 2209-4925 | Weight: 0.5 lbs. |

### BUSHING, RAIL CLAMP WHEEL, 1-3/4”, HYDALAR
1-3/4” od, 1-1/2” id x 1-1/8” long hydalar autolifter rail clamp wheel bushing with lubrication groove.

| Part #: 2203-7690 | Weight: 0.04 lbs. |

### PIN, AUTOLIFTER, 3/4” X 3-5/8”
3/4” diameter x 3-5/8” long steel pivot pin for autolifter machines, with two pin 1/4” holes.

| Part #: 5425-1850 | Weight: 0.43 lbs. |

### PIN, AUTOLIFTER, 1-1/4” X 7-3/4”
1-1/4” diameter x 7-3/4” long steel pin for autolifter machines, with two 1/4” pin holes.

| Part #: 5425-3301 | Weight: 2.67 lbs. |

### PIN, CLAMP LOCK
1” diameter x 14” long steel pin with two lock-pin holes.

| Part #: 5426-3600 | Weight: 3.25 lbs. |

### SPACER, AUTOLIFTER, 4”, STEEL
4” od, 2” id x 1/16” steel spacer for autolifter machines.

| Part #: 6390-2200 | Weight: 0.17 lbs. |

### WASHER, AUTOLIFTER, 2-1/4”, BRONZE
2-1/4” od, 1-1/4” id bronze washer for autolifter machines. 1/4” thick.

| Part #: 8602-2995 | Weight: 0.19 lbs. |

### WASHER, AUTOLIFTER, 2-1/2”, HYDALAR
2-1/2” od, 1-1/2” id hydalar insulator washer for autolifter machines. 1/8” thick.

| Part #: 8605-9605 | Weight: 0.03 lbs. |

### WASHER, AUTOLIFTER, 3-3/16”, PHENOLIC
3-3/16” od, 2-3/16” id phenolic insulator washer for autolifter machines. 3/16” thick.

| Part #: 6258-7520 | Weight: 0.13 lbs. |

---

The world’s longest straight section of railroad tracks is in Nullarbor Plain in Australia – it is 297 miles or 478 km long without a single curve.
# MAINTENANCE OF WAY PARTS

**BLADE BLOCK, PLOW**
Support block for Knox Kershaw ballast regulators. 3/4" steel alloy plate, 6-11/16" x 5" and painted black.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>9001399</td>
<td>5.25 lbs.</td>
</tr>
</tbody>
</table>

Blade Block, Plow, Hard-Faced Left
Part #: 9001399L Weight: 5.75 lbs.

Blade Block, Plow, Hard-Faced Right
Part #: 9001399R Weight: 5.75 lbs.

**BLADE, BALLAST REGULATOR WEAR**
9" x 53" x 5/8" thick alloy steel ballast regulator wear blade for Knox Kershaw 46-1 machines. 5 hole mount.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>218508</td>
<td>83 lbs.</td>
</tr>
</tbody>
</table>

**BLADE, GRADER, 2-HOLE SHORT INBOARD**
Precision cut from 3/4", heavy-duty AR400 plate for Knox Kershaw ballast regulators. 21-3/8" long x 9" wide. Painted flat black.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>9001018</td>
<td>38 lbs.</td>
</tr>
</tbody>
</table>

**BLADE, GRADER, 2-HOLE, CHROMIUM CARBIDE HARD-FACED**
Precision cut from 3/4", heavy-duty AR400 plate and then reinforced with a chromium carbide overlay for Knox Kershaw ballast regulators. 21-3/8" long x 9" wide. Painted flat black.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>9001018B</td>
<td>39 lbs.</td>
</tr>
</tbody>
</table>

**BLADE, GRADER, 3-HOLE OUTBOARD**
Precision cut from 3/4", heavy-duty AR400 plate for Knox Kershaw ballast regulators. 29-3/4" long x 9" wide. Painted flat black.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>9011359</td>
<td>54 lbs.</td>
</tr>
</tbody>
</table>

**BLADE, GRADER, 3-HOLE, CHROMIUM CARBIDE HARD-FACED**
Precision cut from 3/4", heavy-duty AR400 plate and then reinforced with a chromium carbide overlay for Knox Kershaw ballast regulators. 29-3/4" long x 9" wide. Painted flat black.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>9011359B</td>
<td>56 lbs.</td>
</tr>
</tbody>
</table>

**BROOM SKIRT DEFLECTOR**
Broom deflector skirt baffle for Knox Kershaw ballast regulators.

<table>
<thead>
<tr>
<th>Product</th>
<th>Part #</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left/Hand</td>
<td>0760204</td>
<td>156 lbs.</td>
</tr>
<tr>
<td>Right/Hand</td>
<td>0760203</td>
<td>156 lbs.</td>
</tr>
</tbody>
</table>
IPS Bushings for Knox Kershaw Ballast Regulators:

<table>
<thead>
<tr>
<th>Part#</th>
<th>Name</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>9000107-IPS</td>
<td>Bushing, Ballast Regulator, 1-3/4&quot;, Aluminum-Bronze</td>
<td>1-3/4&quot; od, 1-1/2&quot; id x 1/2&quot; long aluminum-bronze bushing for Knox Kershaw ballast regulator machines.</td>
<td>0.08 lbs.</td>
</tr>
<tr>
<td>9000646-IPS</td>
<td>Bushing, Ballast Regulator, 1-3/4&quot;, Aluminum-Bronze</td>
<td>1-3/4&quot; od, 1-1/2&quot; id x 1&quot; long aluminum-bronze bushing for Knox Kershaw ballast regulator machines.</td>
<td>0.17 lbs.</td>
</tr>
<tr>
<td>9000110-IPS</td>
<td>Bushing, Ballast Regulator, 1-3/4&quot;, Aluminum-Bronze</td>
<td>1-3/4&quot; od, 1-1/2&quot; id x 2&quot; long aluminum-bronze bushing for Knox Kershaw ballast regulator machines, with chamfered end and internal grease grooves.</td>
<td>0.33 lbs.</td>
</tr>
<tr>
<td>9017265</td>
<td>Bushing, Ballast Regulator, 1-3/4&quot;, Bronze</td>
<td>1-3/4&quot; od, 1-1/2&quot; id x 2&quot; long sintered bronze cross-over bushing for Knox Kershaw ballast regulator machines.</td>
<td>0.3 lbs.</td>
</tr>
<tr>
<td>9017268</td>
<td>Bushing, Ballast Regulator, 2-1/2&quot;, Bronze</td>
<td>2-1/2&quot; od, 2&quot; id x 1-1/2&quot; long sintered bronze cross-over bushing for Knox Kershaw ballast regulator machines.</td>
<td>0.63 lbs.</td>
</tr>
<tr>
<td>9017267</td>
<td>Bushing, Ballast Regulator, 2-1/2&quot;, Bronze</td>
<td>2-1/2&quot; od, 2&quot; id x 2&quot; long sintered bronze cross-over bushing for Knox Kershaw ballast regulator machines.</td>
<td>0.83 lbs.</td>
</tr>
<tr>
<td>9011361-IPS</td>
<td>Bushing, Ballast Regulator, 2-1/2&quot;, Aluminum-Bronze</td>
<td>2-1/2&quot; od, 2&quot; id, 2&quot; long upgraded bushings for Knox Kershaw ballast regulator machines, machined from aluminum-bronze alloy for increased durability.</td>
<td>0.95 lbs.</td>
</tr>
<tr>
<td>9019548</td>
<td>Bushing, Ballast Regulator, 2-1/2&quot;, Steel</td>
<td>2-1/2&quot; od, 2&quot; id x 2&quot; long steel bushing for ballast regulator machines.</td>
<td>0.9 lbs.</td>
</tr>
<tr>
<td>9000038</td>
<td>Bushing, Plow Shaft, 5-1/2&quot;, Composite</td>
<td>5-1/2&quot; od, 5&quot; id x 2-1/2&quot; long composite bushing for ballast regulator machines.</td>
<td>0.7 lbs.</td>
</tr>
</tbody>
</table>
# Maintenance of Way Parts

## Knox Kershaw Ballast Regulator

### Ear W/ Bushings

Ear for KBR 850 Ballast Regulators, with bushings.

- **Part #:** 9012664
- **Weight:** 26 lbs

Ear w/o Bushings

- **Part #:** 9012661
- **Weight:** 25.6 lbs

### Lock, Pivot Pin

Pivot pin lock for KBR925 ballast regulators.

- **Part #:** 9031073-IPS
- **Weight:** 2.9 lbs

### Male Slider Assy

Male slider assembly for guide wheel bracket on Knox Kershaw ballast regulators.

- **Part #:** 9301398
- **Weight:** 3.5 lbs

### Pin, Ballast Regulator, 1-1/2” x 6-1/4”

1-1/2” diameter x 6-1/4” long pin for Knox Kershaw ballast regulators.

- **Part #:** 9011705
- **Weight:** 3.2 lbs

### Pin, Ballast Regulator, 2” x 19-1/4”

2” diameter x 19-1/4” long steel mounting pin for Knox Kershaw ballast regulators.

- **Part #:** 9011109
- **Weight:** 17 lbs

### Pin, Main Pivot Plow

3” diameter x 6-1/16” long C1018 steel main pivot plow pin with 3-1/2” square securing plate for ballast regulators machines.

- **Part #:** 9003324
- **Weight:** 13.7 lbs

### Pin, PLOW LIFT CYLINDER, 1-1/2” X 4-1/16”

1-1/2” diameter x 4-1/16” long plow lift cylinder pin for Knox Kershaw ballast regulators.

- **Part #:** 9001240
- **Weight:** 1.9 lbs

### Pin, Ballast Regulator, 1-1/2” x 6-1/2”

1-1/2” diameter x 6-1/2” pin for Knox Kershaw ballast regulators.

- **Part #:** 9012665
- **Weight:** 3.2 lbs

### Pin, Ballast Regulator, 2” x 5-5/8”

2” diameter x 5-5/8” long steel mounting pin for Knox Kershaw ballast regulators.

- **Part #:** 9011119
- **Weight:** 5.4 lbs

### Pin, Ballast Regulator, 1-1/2” x 16-7/8”

1-1/2” diameter x 16-7/8” long steel pin for ballast regulator machines.

- **Part #:** 9031754
- **Weight:** 8 lbs

### Pin, Ballast Regulator, 2” x 19-1/4”

2” diameter x 19-1/4” long steel mounting pin for Knox Kershaw ballast regulators.

- **Part #:** 9011109
- **Weight:** 17 lbs
MAINTENANCE OF WAY PARTS

PIN, LOWER PLOW
This is the lower pin that attaches the plow to the plow lock assembly.
Part #: 9006923  Weight: 17.6 lbs.

PIN, WING CYLINDER,
1-1/2” X 3-1/16”
1-1/2” diameter x 3-1/16” long steel wing cylinder pin for Knox Kershaw ballast regulators.
Part #: 9001263  Weight: 1.6 lbs.

PIN, WING MOUNT,
1-1/2” X 4-1/8”
1-1/2” diameter x 4-1/8” long wing mount pin for Knox Kershaw ballast regulators.
Part #: 9002996  Weight: 2 lbs.

PIN, WING, 1-3/4” X 20-3/4”
This 1-3/4” diameter x 20-3/4” long pin attaches the ballast door to the main wing assembly.
Part #: 9001268  Weight: 15 lbs.

PIN, LOWER PLOW☆
This is the upper pin that attaches the plow to the plow lock assembly.
Part #: 9006926  Weight: 3.4 lbs.

PIN, WING CYLINDER,
1-1/2” X 3-1/16”
1-1/2” diameter x 3-1/16” long steel wing cylinder pin for Knox Kershaw ballast regulators.
Part #: 9001263  Weight: 1.6 lbs.

PIN, WING, 1-3/4” X 20-3/4”
This 1-3/4” diameter x 20-3/4” long pin attaches the ballast door to the main wing assembly.
Part #: 9001268  Weight: 15 lbs.

PIN, MAIN WING LOCK
1-3/4” dia. x 6-3/4” steel pin with locking tab for the plow lock assembly on KBR 925 machines.
Part #: 9001218  Weight: 4.7 lbs.

PIN, WING MOUNT,
1-1/2” X 4-1/8”
1-1/2” diameter x 4-1/8” long wing mount pin for Knox Kershaw ballast regulators.
Part #: 9002996  Weight: 2 lbs.

PIN, WING, 1-3/4” X 20-3/4”
This 1-3/4” diameter x 20-3/4” long pin attaches the ballast door to the main wing assembly.
Part #: 9001268  Weight: 15 lbs.

PIN, WING, 2” X 4-3/4”, W/ FLANGE
Wing pin with flange for ballast regulator machines. 2” x 4-3/4” long pin with lubrication groove.
Part #: 9034061  Weight: 5.2 lbs.

PIN, WING, 1-3/4” X 20-3/4”
This 1-3/4” diameter x 20-3/4” long pin attaches the ballast door to the main wing assembly.
Part #: 9001268  Weight: 15 lbs.

PIN, WING, 2” X 4-3/4”, W/ FLANGE
Wing pin with flange for ballast regulator machines. 2” x 4-3/4” long pin with lubrication groove.
Part #: 9034061  Weight: 5.2 lbs.

PIN, WING MOUNT,
1-1/2” X 4-1/8”
1-1/2” diameter x 4-1/8” long wing mount pin for Knox Kershaw ballast regulators.
Part #: 9002996  Weight: 2 lbs.

PIN, WING, 1-3/4” X 20-3/4”
This 1-3/4” diameter x 20-3/4” long pin attaches the ballast door to the main wing assembly.
Part #: 9001268  Weight: 15 lbs.

RAIL SWEEP ASSEMBLY
Rail sweep assembly for Knox Kershaw 850 & 925 ballast regulators.
Part #: 9002960  Weight: 10 lbs.

RAIL SWEEP MOUNTING BAR
2” wide x 16” long 1/2” thick steel rail sweep mounting bar for 46-1 ballast regulators. Five 1/2” UNC mounting holes.
Part #: 201142  Weight: 4.5 lbs.

RAIL SWEEP RETAINER PLATE,
3” X 6”, STEEL
3” wide x 6” long 3/16” thick steel rail sweep retainer plate for 46-1 ballast regulators. Two 9/16” mounting holes.
Part #: 136569  Weight: 1 lb.

RAIL SWEEP, RUBBER,
8” X 8”
Rubber rail sweep designed for ballast regulators. Rubber sweep measures 8” x 8” x 3/4” thick and has two 9/16” diameter holes punched at 4” centres. Durometer reading of 60.
Part #: 9003162-IPS  Weight: 2.5 lbs.

RAIL SWEEP, RUBBER,
8” X 8”
Rubber rail sweep designed for ballast regulators. Rubber sweep measures 8” x 8” x 3/4” thick and has two 9/16” diameter holes punched at 4” centres. Durometer reading of 60.
Part #: 9003162-IPS  Weight: 2.5 lbs.
**ROLLER, BALLAST REGULATOR, 4”**
Roller assembly for KBR875/925 ballast regulators, comprised of one 4” od outer steel roller and one 1-3/4” id aluminum-brass bushing.
Part #: 9011316  Weight: 4.25 lbs.

**WASHER, BALLAST REGULATOR, 6-3/4”, ALUMINUM-BRONZE**
6-3/4” od, 5” id plow shaft thrust washer for Knox Kershaw ballast regulators. Machined from aluminum-bronze alloy for greater durability. 1/8” thick.
Part #: 9001277  Weight: 0.8 lbs.

**RAIL PLATE, BALLAST REGULATOR**
19-3/4” x 8-1/2” x 3/8” steel rail plate. This item attaches to ballast regulator plows with two mounting slots to set the rail plate at various heights when moving ballast around rails. Comes complete with eight bolts and painted flat black.
Part #: 9011358-IPS  Weight: 22.5 lbs.

**WASHER, BALLAST REGULATOR, 6-3/4”, ALUMINUM-BRONZE**
6-3/4” od, 4-13/16” id plow shaft thrust washer for Knox Kershaw ballast regulators. Machined from aluminum-bronze alloy for greater durability. 1/8” thick.
Part #: 9001277  Weight: 0.8 lbs.

**WEAR PLATE, WING, 26-1/2” LONG, 3/4”**
Precision cut steel 3/4” T1 plate, measures 26-1/2” long, 4” wide, and designed for Knox Kershaw ballast regulators. Painted flat black. 2 mount holes.
Part #: 9011364  Weight: 22.5 lbs.

**BROOM ELEMENT, “BALLAST BROOM”, FLARED**
This heavy duty rubber broom element is manufactured from a high quality, proprietary rubber compound and flared at the bottom to provide maximum durability. Measures 2” diameter x 18” long.
Part #: 175955-B  Weight: 2.4 lbs.

** Wear Plate, Wing, 26-1/2” Long, 3/4”**
Precision cut steel 3/4” T1 plate, measures 26-1/2” long, 4” wide, and designed for Knox Kershaw ballast regulators. Painted flat black. 2 mount holes.
Part #: 9011364  Weight: 22.5 lbs.

**BROOM ELEMENT**
Also known as a ‘Whisker’, this fibre-reinforced rubber element is designed for the repeated punishment involved in clearing ballast from ties during track maintenance. Measures 2” diameter x 18” long.
Part #: 175955-A  Weight: 2.6 lbs.
WEAR PLATE, WING, 49" LONG, 1/2"
Precision cut 1/2" T1 steel plate measuring 49" long x 4" wide, and designed for Knox Kershaw ballast regulators. Painted flat black.
Part #: 9012084  Weight: 28 lbs.

WEAR PLATE, WING, 57" LONG, 1/2"
Precision cut 1/2" T1 steel wing wear plate measuring 57" long x 4" wide for KBR850 ballast regulator machines. Painted flat black.
Part #: 9012083  Weight: 34 lbs.

WEAR PLATE, WING, 52-1/2" LONG, 1/2"
This 1/2" thick T1 steel plate measures 52-1/2" long x 4" wide, and is designed for KBR925 ballast regulators. 5 mount holes.
Part #: 9009444  Weight: 30 lbs.

WEAR PLATE, WING, 57" LONG, 1/2"
Precision cut 1/2" T1 steel wing wear plate measuring 52-1/2" long x 4" wide for KBR850 ballast regulator machines. Painted flat black.
Part #: 9031302  Weight: 350 lbs.

WEAR PLATE, WING, 57" LONG, 1/2"
Precision cut 1/2" T1 steel wing wear plate measuring 57" long x 4" wide for KBR850 ballast regulator machines. Painted flat black.
Part #: 9012083  Weight: 34 lbs.

WEAR PLATE, WING, 49" LONG, 1/2"
Precision cut 1/2" T1 steel plate measuring 49" long x 4" wide, and designed for Knox Kershaw ballast regulators. Painted flat black.
Part #: 9012084  Weight: 28 lbs.

WEAR PLATE, WING, 52-1/2" LONG, 1/2"
This 1/2" thick T1 steel plate measures 52-1/2" long x 4" wide, and is designed for KBR925 ballast regulators. 5 mount holes.
Part #: 9009444  Weight: 30 lbs.

WEAR PLATE, WING, 52-1/2" LONG, 1/2"
This 1/2" thick T1 steel plate measures 52-1/2" long x 4" wide, and is designed for KBR925 ballast regulators. 5 mount holes.
Part #: 9009444  Weight: 30 lbs.

WEAR PLATE, WING, 57" LONG, 1/2"
Precision cut 1/2" T1 steel wing wear plate measuring 57" long x 4" wide for KBR850 ballast regulator machines. Painted flat black.
Part #: 9031302  Weight: 350 lbs.

WEAR PLATE, WING, 57" LONG, 1/2"
Precision cut 1/2" T1 steel wing wear plate measuring 57" long x 4" wide for KBR850 ballast regulator machines. Painted flat black.
Part #: 9031303  Weight: 350 lbs.

WEAR PLATE, WING, 52-1/2" LONG, 1/2"
This 1/2" thick T1 steel plate measures 52-1/2" long x 4" wide, and is designed for KBR925 ballast regulators. 5 mount holes.
Part #: 9009444  Weight: 30 lbs.

WEAR PLATE, WING, 57" LONG, 1/2"
Precision cut 1/2" T1 steel wing wear plate measuring 57" long x 4" wide for KBR850 ballast regulator machines. Painted flat black.
Part #: 9031302  Weight: 350 lbs.

WEAR PLATE, WING, 57" LONG, 1/2"
Precision cut 1/2" T1 steel wing wear plate measuring 57" long x 4" wide for KBR850 ballast regulator machines. Painted flat black.
Part #: 9031303  Weight: 350 lbs.

WEAR PLATE, WING, 52-1/2" LONG, 1/2"
This 1/2" thick T1 steel plate measures 52-1/2" long x 4" wide, and is designed for KBR925 ballast regulators. 5 mount holes.
Part #: 9009444  Weight: 30 lbs.

WEAR PLATE, WING, 57" LONG, 1/2"
Precision cut 1/2" T1 steel wing wear plate measuring 57" long x 4" wide for KBR850 ballast regulator machines. Painted flat black.
Part #: 9031302  Weight: 350 lbs.

WEAR PLATE, WING, 57" LONG, 1/2"
Precision cut 1/2" T1 steel wing wear plate measuring 57" long x 4" wide for KBR850 ballast regulator machines. Painted flat black.
Part #: 9031303  Weight: 350 lbs.

WEAR PLATE, WING, 52-1/2" LONG, 1/2"
This 1/2" thick T1 steel plate measures 52-1/2" long x 4" wide, and is designed for KBR925 ballast regulators. 5 mount holes.
Part #: 9009444  Weight: 30 lbs.
MAINTENANCE OF WAY PARTS

**BLADE, PLOW, 2-HOLE**
9” x 26-1/2” x 3/4” AR plate plow blade for ballast regulators with 2 countersunk mounting holes.
Part #: 19.4486  Weight: 47 lbs.

**BLADE, PLOW, 3-HOLE**
9” x 29-1/2” x 3/4” AR plate plow blade for ballast regulators with 3 countersunk mounting holes.
Part #: 19.4485  Weight: 53 lbs.

**BLADE, WING, 9” X 10-3/4”, AR400**
9” x 10-3/4” AR400 wing blade for ballast regulators.
Part #: 224187

**BLADE, WING, 9” X 41”, AR400**
9” x 41” AR400 wing blade with pull handle for ballast regulators.
Part #: 224212

**BLADE, WINTER WEAR, 6” X 47-11/16”**
6” x 47-11/16” x 1/2” thick alloy steel ballast regulator Winter wear blade for Snow Fighter machines.
Part #: 9034036  Weight: 38 lbs.

**BLADE, WINTER WEAR, 6” X 51-7/8”**
6” x 51-7/8” x 1/2” thick alloy steel ballast regulator Winter wear blade.
Part #: 9034037  Weight: 43 lbs.

**BUSHING, BALLAST REGULATOR, 3/4”, STEEL**
3/4” od, 1/2” id x 1/2” long steel bushing for Kershaw ballast regulator machines.
Part #: 03.9766  Weight: 0.04 lbs.

**BUSHING, BALLAST REGULATOR, 1-1/4”, PHENOLIC**
1-1/4” od, 1” id x 1-3/4” long phenolic insulator bushing for 46-1 Ballast regulator machines.
Part #: 101018  Weight: 0.03 lbs.

**HUB & CUP ASSEMBLY**
Hub and cup assembly used in ballast regulators and other MOW equipment.
Part #: 35.0370  Weight: 45 lbs.

**CAM, BALLAST REGULATOR**
4-1/2” od elliptical cam for ballast regulator plow frames. 1-1/4” diameter hole in 2-1/2”circle.
Part #: 16.5637  Weight: 2.8 lbs.

**INSULATOR, RING, 10-3/4” OD**
Insulation ring gasket for compactor and snow fighter machines. 10-3/4” od x 6-1/2” id c/w twelve 1” od placement holes on a 8-5/8” bolt circle, material .05” thick.
Part #: A-1535-Y01  Weight: 0.1 lbs.
## MAINTENANCE OF WAY PARTS

### PIN, BALLAST REGULATOR, 1” X 2-3/4”
1” diameter x 2-3/4” long steel wing cylinder lift pin for ballast regulators, with two 1/16” clip slots.

- Part #: 08.1975
- Weight: 0.6 lbs.

### PIN, BALLAST REGULATOR, 1” X 6”
1” diameter x 6” long steel block pivot pin for Kershaw ballast regulator machines. 2” shoulder, with one 1/2” pin hole.

- Part #: 03.5075
- Weight: 1.4 lbs.

### PIN, BALLAST REGULATOR, 2” X 6-1/8”
2” diameter x 6-1/8” long steel pin for Kershaw ballast regulator machines. Chamfered end and with one 9/16” pin hole.

- Part #: 04.2218
- Weight: 5.2 lbs.

### PIN, BALLAST REGULATOR, 1” X 4-1/2”
1” diameter x 4-1/2” long steel pin for Kershaw ballast regulator machines, with 1-1/4” shoulder with one 7/32” pin hole.

- Part #: 13.6101
- Weight: 1 lb.

### PIN, BALLAST REGULATOR, 2” X 6-1/8”
2” diameter x 6-1/8” long steel pin for Kershaw ballast regulator machines. Chamfered end and with one 9/16” pin hole.

- Part #: 04.2218
- Weight: 5.2 lbs.

### WASHER, BALLAST REGULATOR, 3”, BRONZE
3” od, 1-1/2” id bronze washer for Kershaw ballast regulator machines. 1/4” thick.

- Part #: 15.1462
- Weight: 0.7 lbs.

### WASHER, BALLAST REGULATOR, 1-3/4”, PHENOLIC
1-3/4” od, 1” id phenolic insulator bushing for 46-1 ballast regulator machines. 1/16” thick.

- Part #: 101012
- Weight: 0.01 lbs.

### WASHER, BALLAST REGULATOR, 1-3/4”, BRONZE
1-3/4” od, 1” id bronze washer for ballast regulator machines. 1/16” thick.

- Part #: 101012
- Weight: 0.01 lbs.

### WASHER, BALLAST REGULATOR, 3”, BRONZE
3” od, 1-1/2” id bronze washer for Kershaw ballast regulator machines. 1/4” thick.

- Part #: 15.1462
- Weight: 0.7 lbs.

### WASHER, BALLAST REGULATOR, 3”, BRONZE
3” od, 1-1/2” id bronze washer for Kershaw ballast regulator machines. 1/4” thick.

- Part #: 15.1462
- Weight: 0.7 lbs.

### RAIL SWEEP, RUBBER, 4” X 7”
3/8” thick x 4” x 7” rubber belting with two 5/16” x 2-13/16” slots.

- Part #: 04.5685
- Weight: 0.5 lbs.

### SHAFT, BALLAST REGULATOR, 1-1/2” X 3-1/4
1-1/2” diameter x 3-1/4” steel idler shaft for ballast regulator machines.

- Part #: 04.7138
- Weight: 0.75 lbs.

### SHAFT, PLOW
5” diameter x 47-5/16” long steel plow centre pin for ballast regulators.

- Part #: 10.2037
- Weight: 264 lbs.

### WASHER, BALLAST REGULATOR, 1-1/2”, BRONZE
3” od, 1-1/2” id bronze washer for Kershaw ballast regulator machines. 1/4” thick.

- Part #: 15.1464
- Weight: 0.43 lbs.
# MAINTENANCE OF WAY PARTS

## BUSHING, BALLAST REGULATOR, 7/8", PHENOLIC

7/8" od, 3/4" id x 2" long phenolic insulator bushing for M2 & M35 ballast regulators.

Part #: 6070  
Weight: 0.02 lbs.

## BUSHING, BALLAST REGULATOR, 1", PHENOLIC

1" od, 3/4" id x 1" long phenolic insulator bushing for Pyke/Nordco ballast regulators.

Part #: A-6082  
Weight: 0.01 lbs.

## BUSHING, BALLAST REGULATOR, 2-1/2", BRONZE

2-1/2" od, 2" id x 2-3/4" long bronze bushing for Pyke/Nordco ballast regulators.

Part #: A-25473  
Weight: 1.5 lbs.

## BUSHING, BALLAST REGULATOR, 3-1/2", BRONZE

3-1/2" od, 3" id x 4" long bronze broom plow guide bushing for Pyke/Nordco ballast regulators.

Part #: A-25083  
Weight: 3.2 lbs.

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IPS high-strength steel pins for Pyke/Nordco Ballast Regulators:

<table>
<thead>
<tr>
<th>Part#</th>
<th>Name</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>2911</td>
<td>Pin, Ballast Regulator, 3/4&quot; x 2-1/2&quot;</td>
<td>3/4&quot; diameter x 2-1/2&quot; steel dowel pin for Pyke/Nordco ballast regulators.</td>
<td>0.31 lbs.</td>
</tr>
<tr>
<td>A-5003-21</td>
<td>Pin, Ballast Regulator, 1&quot; x 3-1/4&quot;</td>
<td>1&quot; diameter x 3-1/4&quot; long steel pin for Pyke/Nordco ballast regulators, with two 3/16&quot; pin holes.</td>
<td>0.7 lbs.</td>
</tr>
<tr>
<td>A-25812</td>
<td>Pin, Ballast Regulator, 1&quot; x 3-5/8&quot;</td>
<td>1&quot; diameter x 3-5/8&quot; long steel wing cylinder pin for M Model ballast regulators. 5/16&quot; wide x 5/16&quot; deep keyway.</td>
<td>0.8 lbs.</td>
</tr>
<tr>
<td>A-25733</td>
<td>Pin, Ballast Regulator, 1&quot; x 6-3/4&quot;</td>
<td>1&quot; diameter x 6-3/4&quot; long steel pin used on Pyke/Nordco ballast regulators. 5/16&quot; wide x 3/8&quot; deep key slot.</td>
<td>1.5 lbs.</td>
</tr>
<tr>
<td>B-4704-4</td>
<td>Pin, Ballast Regulator, 1-1/4&quot; x 5-1/2&quot;</td>
<td>1-1/4&quot; diameter x 5-1/2&quot; long pin for Pyke/Nordco ballast regulators, with threaded hole for grease nipple.</td>
<td>1.75 lbs.</td>
</tr>
<tr>
<td>B-25804</td>
<td>Pin, Ballast Regulator, 1-1/4&quot; x 15-3/4&quot;</td>
<td>1-1/4&quot; diameter x 15-3/4&quot; long steel pin for Pyke/Nordco ballast regulators.</td>
<td>5.4 lbs.</td>
</tr>
<tr>
<td>A-25470</td>
<td>Pin, Broom, 2&quot; x 8&quot;</td>
<td>2&quot; diameter x 8&quot; long specially engineered broom pin for Pyke/Nordco ballast regulators; modified to house grease nipples at each end.</td>
<td>6.8 lbs.</td>
</tr>
<tr>
<td>B-25387</td>
<td>Pin, Top Swivel, 1-3/4&quot; x 3-1/4&quot;</td>
<td>1-3/4&quot; diameter x 3-1/4&quot; brake pot swivel pin for Pyke/Nordco ballast regulators, with 1&quot; x 1-1/4&quot; flat machined centre with 11/16&quot; hole.</td>
<td>1.9 lbs.</td>
</tr>
<tr>
<td>A-25785</td>
<td>Pin, Wing Ass’y, 1&quot; x 20-7/16&quot;</td>
<td>1&quot; diameter x 20-7/16&quot; long wing assembly pin with welded plate for Pyke/Nordco ballast regulators.</td>
<td>4.8 lbs.</td>
</tr>
<tr>
<td>A-5006-20</td>
<td>Pin, Wing Ass’y, 1-1/4&quot; x 15-1/2&quot;</td>
<td>1-1/4&quot; diameter x 15-1/2&quot; long wing assembly pin for Pyke/Nordco ballast regulators. Two 1/4&quot; hairpin holes.</td>
<td>5.35 lbs.</td>
</tr>
<tr>
<td>B-4703-6</td>
<td>Pin, Wing Cylinder, 1&quot; x 3.8&quot;</td>
<td>1&quot; diameter x 3.8&quot; wing cylinder pin for M Model ballast regulators, with internally threaded end for grease nipple.</td>
<td>0.72 lbs.</td>
</tr>
<tr>
<td>54260430</td>
<td>Pin, Wing Tilt Cylinder, 1&quot; x 4-7/8&quot;</td>
<td>1&quot; diameter x 4-7/8&quot; long wing tilt cylinder pin, manufactured with machined key-slot and recessed grease nipple for M7 ballast regulators. (Supersedes A-25735 &amp; B-4703-2.)</td>
<td>1 lb.</td>
</tr>
</tbody>
</table>
MAINTENANCE OF WAY PARTS

PLOW ROD ASS’Y, BALLAST REGULATOR, 2” X 27-1/4”
2” diameter x 27-1/4” long chromed plow rod assembly for M Model ballast regulators, supplied complete with grease nipple.
Part #: A-27758 Weight: 24.5 lbs.

ROLLATER ASS’Y, BALLAST REGULATOR, 2” X 27-1/4”
3” wide x 4” high x 9/16” wide steel door roller assembly for Pyke/Nordco tie cranes and ballast regulators. 1/8” steel plate with two 1/4” holes @ 1-1/2” centers for mounting.
Part #: 6049-33 Weight: 0.55 lbs.

ROLLER ASS’Y, DOOR
3” diameter x 27-1/4” long guide rod for plow and broom assemblies. Guide rod is induction chrome plated and hardened to the proper rockwell strength. Model M, M2, & S.
Part #: B-25079 Weight: 90 lbs.

SPROCKET, BROOM
10” od D80380 sprocket with a 2-1/2” id finished bore with 5/8” keyway. Two 3/8” t-screws secure the hub at 90°, one over the key.
Part #: B-25166 Weight: 33.5 lbs.

WASHER, BALLAST REGULATOR, 1-3/4”, PHENOLIC
1-3/4” od, 3/4” id phenolic insulator washer for Pyke/Nordco ballast regulators. 1/16” thick.
Part #: A-25392 Weight: 0.01 lbs.

PIN, BLADE, HARDENED
Hardened blade pin for brushcutters; used with part # 7325 hex nut.
Part #: B-24345 Weight: 4.6 lbs.

GRINDING STONE CASING (SPARK SHIELD)
Grinding stone casing/spark shield for the Geismar MP-12 rail profile grinder.
Part #: 37026E-IPS Weight: 7.5 lbs.

PLATE, INDEXING
For the following types of rail: 100 lbs. RE Rail, 115 lbs. RE Rail, 136 lbs. RE Rail, 130 lbs. RE Rail, & 132 lbs. RE Rail.
Part #: 11319 Weight: 3 lbs.
## MAINTENANCE OF WAY PARTS

### BUSHING, SPEEDSWING, 1”, PHENOLIC
1” od, 3/4” id x 11/16” long phenolic insulator bushing for speedswing machines.

- Part #: L1-7802  Weight: 0.01 lbs.

### BUSHING, SPEEDSWING, 1-1/2”, BRONZE
1-1/2” od, 1-1/4” id x 3” long bronze bushing with internal grease grooves, for speedswing machines.

- Part #: L2-3525-23  Weight: 0.5 lbs.

### PIN, SPEEDSWING, 1-1/4” X 5-1/2”
1-1/4” diameter x 5-1/2” long steel pivot pin for speedswing machines with 1-3/4” diameter modified shoulder. Threaded for grease nipples and with 1/4” pin hole.

- Part #: L3279-3  Weight: 2 lbs.

### PIN, SPEEDSWING, 1-1/2” X 4-1/2”
1-1/2” diameter x 4-1/2” long steel pin for speedwing machines. One 3/8” pin hole.

- Part #: L1-36-3  Weight: 2.2 lbs.

### PIN, SPEEDSWING, 1-1/2” X 4-7/8”
1-1/2” diameter x 4-7/8” long steel pin for speedswing machines, with one 3/8” pin hole.

- Part #: L1-36-6  Weight: 2.3 lbs.

### PIN, SPEEDSWING, 1-1/2” X 5-1/2”
1-1/2” diameter x 5-1/2” long steel pin for speedswing machines, with heavily chamfered end and 7/16” guide hole. 1/4” lubrication hole.

- Part #: LA-802-6  Weight: 2.4 lbs.

### PIN, SPEEDSWING, 2” X 10”
2” diameter x 10” long steel pin for speedswing machines. Heavy chamfer at one end, 9/16” pin hole at the other.

- Part #: L2-5829-5  Weight: 8 lbs.

### PIN, SPEEDSWING, 2” X 11-3/8”
2” diameter x 11-3/8” long speedwing pin with chamfered end and 1/2” hairpin hole. Bored and threaded for grease nipple and lubrication.

- Part #: L5829-5  Weight: 9.6 lbs.

### PINEAPPLE PROTECTOR, FRONT
Front pineapple protector for speedswing machines. 14-15/16” high x 12-1/2” curved guard mounted on 24-3/4” long placement handle. Painted safety yellow.

- Part #: B-9775-1  Weight: 22 lbs.

### Pineapple Protector, Rear
Rear pineapple protector for speedswing machines. 14-15/16” high x 11” curved guard mounted on 24-3/4” long placement handle. Painted safety yellow.

- Part #: B-9775-12  Weight: 20.5 lbs.
### Maintenance of Way Parts

#### Spike Puller

**Bushing, Claw Housing, 2-5/8”, Bronze**
- 2-5/8” od, 2-11/32” id x 4” bushing for dual spike pullers. Chamfered at one end.
- Part #: 2212-9950
- Weight: 1.3 lbs.

**Bushing, Claw Housing, 2-5/8”, Aluminum-Bronze**
- 2-5/8” od, 2-11/32” id x 4” bushing for dual spikepullers. Chamfered at one end. Manufactured from aluminum-bronze for increased wear durability.
- Part #: 2212-9950-IPS
- Weight: 1.3 lbs.

**Bushing, Claw Lever, 3”, Steel**
- 3” od, 2-1/2” id x 1-3/4” long steel claw lever bushing with external grease groove for spike pullers.
- Part #: 2205-2252
- Weight: 0.24 lbs.

**Bushing, Roller, 3”, Bronze**
- 3” od, 2.168” od x 2-3/16” long bronze bushing is used in frame roller part # 6621-8320
- Part #: 2212-9100
- Weight: 2.3 lbs.

**Claw, Single Spike**
- Designed for use with spike puller machines, IPS single spike claws are manufactured from high-strength alloy steel and heat treated. Our single claws offer efficiency, performance, and maximum longevity.
- Part #: 4665-0037
- Weight: 3 lbs.

**Claw, Double Spike**
- IPS Double spike claws are manufactured for spike puller machines, and are designed for pulling two rail spikes simultaneously. Manufactured from high-strength alloy steel and heat treated, these claws offer performance and maximum longevity.
- Part #: 4665-0068
- Weight: 5 lbs.

**Pin, Spike Claw, 1” X 3-1/8”**
- 1” diameter x 3-1/8” long high-strength spike claw pins to suit the claw lever. Supplied with hairpin.
- Part #: 3301-863
- Weight: 0.7 lbs.

**Pin, Lewis Bolt Claw, 1” X 4”**
- 1” diameter x 4” pin attaches the Lewis bolt claw, (part # 46650070-IPS) to the claw lever.
- Part #: 54259810-IPS
- Weight: 6 lbs.

**Frame Roller, Spike Puller**
- Spike puller frame roller for dual spike pullers. 5-1/4” od x 2” long, and fitted with a durable, aluminum-bronze bushing with a 2-1/8” id.
- Part #: 6621-8320
- Weight: 9.8 lbs.

**Guide Block, Lower**
- Lower guide block for Grabber & Grabber-LS spike puller, machined from dense nylon and countersunk.
- Part #: 1822-7717
- Weight: 1.4 lbs.

**Guide Block, Upper, Nylon**
- Upper guide block for Grabber & Grabber-LS spike puller, machined from dense nylon and countersunk.
- Part #: 1822-7711
- Weight: 1.6 lbs.
**LINK, ADJUSTING**
Adjusting link for dual spike pullers. Double male, 1" NF threads, 4-3/4" overall length.
Part #: 6727-1851  Weight: 0.95 lbs.

**PAD, FRAME**
2" x 1-3/16" x 18" long black nylon frame pad for dual spike pullers.
Part #: 7634-0077  Weight: 2 lbs.

**PAD, HOUSING WEAR, NYLON**
Housing wear pad for dual spike pullers, made from dense black nylon plate. 16-1/2" x 2-1/2" x 1/2".
Part #: 7634-0078  Weight: 1 lb.

**PIN, CLEVIS, 1" X 2-7/8"**
1" diameter x 2-7/8" long clevis pin for dual spike puller machines, with 1-3/16" od shoulder. 3/16" hairpin hole.
Part #: 3301-859  Weight: 0.66 lbs.

**PIN, MOTOR PIVOT, 1" X 8-7/8"**
1" diameter x 8-7/8" long motor pivot pin with two 3/16" hairpin holes.
Part #: 5426-2965  Weight: 1.9 lbs.

**PIN, SPIKE PULLER JAW, 1/2" X 2-1/2"**
1/2" diameter x 2-1/2" long steel jaw pin for Matweld spike pullers.
Part #: 01110  Weight: 0.14 lbs.

**PIN, SPIKE PULLER, 3/4" X 2-3/4"**
3/4" diameter x 2-3/4" long steel clevis pin with 1" od shoulder and one 5/32" pin hole for dual spike pullers.
Part #: 3301-671  Weight: 0.38 lbs.

**PIN, SPIKE PULLER, 1-1/2" X 11-3/8"**
1-1/2" diameter x 11-3/8" steel pin for spike puller machines, with two 1/4" pinholes.
Part #: 131546  Weight: 5.9 lbs.

**PIN, SPIKE PULLER, 1-1/2" X 11"**
1-1/2" diameter x 11" long steel pin for dual spike pullers. Two 3/16" pin holes.
Part #: 5426-7203  Weight: 5.46 lbs.

**PIN, CLAMP LOCKING, 1" X 6-7/8"**
1" diameter x 6-7/8" long steel clamp locking pin with 1-1/2" od shoulder, for dual spike puller machines. This pin comes with pivoting lock pin and 3-3/4" wide x 1-3/4" high pull ring
Part #: 5364-7786  Weight: 1.86 lbs.

**PIN, SPIKE PULLER, 1-1/2" X 11-3/8"**
1-1/2" diameter x 11-3/8" steel pin for spike puller machines, with two 1/4" pinholes.
Part #: 131546  Weight: 5.9 lbs.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Part #</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PLATE, TOGGLE SLIDE</strong></td>
<td>Toggle slide plate for dual spike pullers, with upgraded aluminum-bronze wear plates for greatly increased durability.</td>
<td>1822-5730-IPS</td>
<td>22 lbs</td>
</tr>
<tr>
<td><strong>RETAINER</strong></td>
<td>1/2” plate, 2-1/2” x 2-1/2” steel retainer plate for dual spike pullers. Four 7/16” holes and one 3/4” centre hole.</td>
<td>5710-1145</td>
<td>0.74 lbs</td>
</tr>
<tr>
<td><strong>ROD EYE, 1”</strong></td>
<td>1” female mount rod eye for dual spike pullers. 5-1/2” high, 2-3/4” wide with fitted grease nipple. Ringball has a 1” id.</td>
<td>6606-7030</td>
<td>2.8 lbs</td>
</tr>
<tr>
<td><strong>SCREW, ADJUSTING</strong></td>
<td>Adjusting screw for ClawsGrabber and Grabber-LS dual spike pullers.</td>
<td>6726-6493</td>
<td>2.6 lbs</td>
</tr>
<tr>
<td><strong>SCREW, RATCHET</strong></td>
<td>3/8” x 3/8” x 7/8” square head with 1/8” diameter hole drilled through it. 2-1/4” long 1/2” thread; 3-1/4” overall length. Used on dual spike pullers.</td>
<td>6727-5050</td>
<td>0.16 lbs</td>
</tr>
<tr>
<td><strong>SHAFT, CLAW LEVER, 2-1/2” X 14-1/4”</strong></td>
<td>2-1/2” diameter x 14-1/4” long C1045 claw lever shaft for dual spike pullers. Two 3/8” diameter holes centered 7/16” from each end of the shaft.</td>
<td>5426-8518</td>
<td>20 lbs</td>
</tr>
<tr>
<td><strong>SPIKE JAW</strong></td>
<td>This IPS spike jaw is designed for use with the Matweld Model 1100 spike puller. Manufactured from high-strength alloy steel, this heat treated component offers maximum longevity and performance.</td>
<td>01111-IPS</td>
<td>1.2 lbs</td>
</tr>
<tr>
<td><strong>WASHER, 1”, STEEL</strong></td>
<td>1” od, 5/8” id x 1/4” thick steel washer.</td>
<td>6387-3961</td>
<td>0.04 lbs</td>
</tr>
<tr>
<td><strong>WASHER, SPIKE PULLER, 2-9/32”</strong></td>
<td>2-9/32” od, 1-9/16” id x 1/8” thick steel washer for spike puller machines.</td>
<td>8606-1606</td>
<td>0.1 lbs</td>
</tr>
</tbody>
</table>

When the first practical steam locomotive began operation in 1804, it averaged less than 10 mph. Today, several high-speed rail lines around the world are regularly travelling 30 times as fast. The top speed of these trains has been steadily climbing with a current world speed record of 362 mph or 582 km/hr.
MAINTENANCE OF WAY PARTS

**ANVIL EXTENSION**
This extension for spiker machines is used along with an anvil tip (part #1056-0029). Model C.
Part #: 1056-0032  Weight: 18.6 lbs.

**ANVIL TIP, SUPER C**
Heat treated anvil tip for spiker machines. Model C.
Part #: 1056-0029  Weight: 1 lb.

**ANVIL, SPIKER**
24” overall length, 4340A steel, then heat-treated and hardened to 48-53 HRC used on CX spikers.
Part #: 1056-0043  Weight: 12 lbs.

**ANVIL, SPIKER**
Heat-treated anvil head for spikers. Precision machined striking head for reduced slipping and greater transfer of energy during striking, with 1-1/4” threaded mounting shaft for easy replacement in the field. Model B & RG.
Part #: 1056-0007  Weight: 0.6 lbs.

**ANVIL, ALLIDE HAMMER**
1-3/4” x 26-3/4” allide hammer anvil. This heat-treated anvil is a single-piece unit for the original allide hammer arrangement for Super C spikers.
Part #: 1056-0024  Weight: 17.4 lbs.

**BUSHING, ANVIL, W/ STUDS**
Anvil bushing, with studs, for Nordco Spiker anvils.
Part #: 2288-0062  Weight: 3 lbs.

**BUSHING, DRIVE SPROCKET, CX SPIKER**
Bushing for the drive sprocket on CX Spiker machines.
Part #: 73045623
MAINTENANCE OF WAY PARTS

IPS manufactures replacement bushings for Spiker machines in steel, bronze, aluminum-bronze and hydalar:

<table>
<thead>
<tr>
<th>Part#</th>
<th>Name</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>2203-4755</td>
<td>Bushing, Feeder Frame, 1-1/2&quot;, Aluminum-Bronze</td>
<td>1-1/2&quot; od, 1-1/4&quot; id x 3&quot; long feeder frame bushing for Super CX spikers.</td>
<td>0.43 lbs.</td>
</tr>
<tr>
<td>2215-0281</td>
<td>Bushing, Gauger Clamp, 1-7/8&quot;, Aluminum-Bronze</td>
<td>1-7/8&quot; od, 1-1/2&quot; id x 7/8&quot; long bushing for gauger clamps on Super CX spikers, machined from aluminum-bronze for increased durability.</td>
<td>0.4 lbs.</td>
</tr>
<tr>
<td>2208-0572</td>
<td>Bushing, Spiker, 5/8&quot;, Bronze</td>
<td>5/8&quot; od, 1/2&quot; id x 3/4&quot; long bronze bushing for spikers.</td>
<td>0.02 lbs.</td>
</tr>
<tr>
<td>2209-6900</td>
<td>Bushing, Spiker, 1-1/8&quot;, Bronze</td>
<td>1-1/8&quot; od, 7/8&quot; id x 5/8&quot; long bronze guide rod bushing for spiker machines.</td>
<td>0.25 lbs.</td>
</tr>
<tr>
<td>2210-3215</td>
<td>Bushing, Spiker, 1-5/32&quot;, Bronze</td>
<td>1-5/32&quot; od, 1&quot; id x 2&quot; long bronze bushing for spiker machines.</td>
<td>0.14 lbs.</td>
</tr>
<tr>
<td>2210-9180</td>
<td>Bushing, Spiker, 1-13/32&quot;, Hydalar</td>
<td>1-13/32&quot; od, 1&quot; id x 9/16&quot; long hydalar spiker bushing with 1-7/8&quot; od shoulder.</td>
<td>0.03 lbs.</td>
</tr>
<tr>
<td>2211-2110</td>
<td>Bushing, Spiker, 1-7/16&quot;, Nylon</td>
<td>1-7/16&quot; od, 1-1/4&quot; id x 2&quot; long nylon bushing for spiker machines.</td>
<td>0.04 lbs.</td>
</tr>
<tr>
<td>2215-0286</td>
<td>Bushing, Spiker, 1-7/8&quot;, Aluminum-Bronze</td>
<td>1-7/8&quot; od, 1-1/2&quot; id x 1-7/16&quot; long bushing for the rail clamp assembly on Super C spikers, machined from aluminum-bronze for increased durability.</td>
<td>0.6 lbs.</td>
</tr>
<tr>
<td>2215-0285</td>
<td>Bushing, Spiker, 1-7/8&quot;, Hydalar</td>
<td>1-7/8&quot; od, 1-1/2&quot; id x 1-1/2&quot; long plastic bushing for spikers, with 2-3/8&quot; od shoulder.</td>
<td>0.1 lbs.</td>
</tr>
<tr>
<td>2212-3300</td>
<td>Bushing, Spiker, 1-15/16&quot;, Steel</td>
<td>1-15/16&quot; od, 1-3/4&quot; id x 1-1/2&quot; long steel bushing for spikers with 2-1/4&quot; od chamfered shoulder at one end.</td>
<td>0.24 lbs.</td>
</tr>
<tr>
<td>2205-0800</td>
<td>Bushing, Spiker, 2-3/4&quot; Aluminum-Bronze</td>
<td>2-3/4&quot; od, 2-1/4&quot; id x 1&quot; long aluminum-bronze bushing with internal grease groove, for rail clamp assemblies on spikers.</td>
<td>0.46 lbs.</td>
</tr>
<tr>
<td>2213-8400</td>
<td>Bushing, Spiker, 4-1/2&quot;, Aluminum-Bronze</td>
<td>4-1/2&quot; od, 4&quot; id x 1-3/4&quot; long bushing for spiker machines, made from aluminum-bronze alloy for increased longevity. Model B &amp; Hydra.</td>
<td>1.6 lbs.</td>
</tr>
</tbody>
</table>

CYLINDER ASS’Y, SPIKE FEED
Spike feed cylinder assembly for CX spiker machines.
Part #: 2855-0006 Weight: 1.7 lbs.

ENGINE DOOR, FRONT, CX SPIKER
Front engine door for the CX Spiker, including latches, handles and heat shields.
Part #: 0806100A

ENGINE DOOR, REAR, CX SPIKER
Rear engine door for the CX Spiker, including latches, handles and heat shields.
Part #: 0806101A

HOOK, NIPPER
T1 steel nipper hook for spikers. 1-1/4" thick x 28-1/4" long with hard-faced tips.
Part #: 4404-4340-IPS Weight: 19 lbs.
PIN, NIPPER HOOK, 1-1/2” X 3-5/8”
1-1/2” diameter x 3-5/8” long nipper hook pin for spiker machines. 9/32” hairpin hole.
Part #: 5426-6870 Weight: 1.75 lbs.

INSULATOR, NYLON SLEEVE, 3”
A tapered 3” long nylon insulator sleeve for spikers. 3-1/2” od (maximum) and 2-3/4” id (minimum).
Part #: 7304-8555 Weight: 0.4 lbs.

JACK STAND★
Bumper mounted jack stand for Nordco Spikers.
Part #: 7544-0005 Weight: 41 lbs.

MOUNT, JAW, C’BORED
Centre-bored jaw mount guide for the CX Spiker.
Part #: 2135-7956 Weight: 13.5 lbs.

PIN, PIVOT, 1-1/2” X 7-1/2”
1-1/2” diameter x 7-1/2” long pivot pin, weld-mounted on 2” x 2-5/8” x 3/8” alloy steel plate for Super C spikers.
Part #: 5410-5098 Weight: 4.2 lbs.

PIN, SPIKER, 1/2” X 2-1/2”
1/2” diameter x 2-1/2” long steel jaw pin for spikers, with one 7/32” pin hole and key slot in head.
Part #: 5423-9957 Weight: 0.6 lbs.

PUNCH HEAD, ANVIL SCREW
A replacement Anvil Screw Punch Head for spikers. Heat-treated to 42-47 HRc.
Part #: 1056-3061-IPS Weight: 2.2 lbs.

PIN, NIPPER HOOK, 1-1/2” X 3-7/8”
1-1/2” diameter x 3-7/8” long nipper hook pin for spikers, with 2” od shoulder. 9/32” hairpin hole.
Part #: 5426-6875 Weight: 2 lbs.

LEVER, SPIKER
3/4” x 1-3/4” x 9-1/4” steel lever for spikers. Two 1” diameter holes, painted safety yellow.
Part #: 4773-2565 Weight: 3 lbs.

JAW MOUNTING KIT
Jaw mounting kit for CX Spikers.
Part #: 98410518-IPS

PIN, 1-1/2” X 5-1/4”, STEEL
1-1/2” diameter x 5-1/4” long steel pin with two 3/8” dia. holes.
Part #: 5426-7173 Weight: 2.5 lbs.

PIN, PROPULSION MOTOR PIVOT
The propulsion motor pivot pin comes with two 1” SAE washers and two 3/16” x 2” cotter pins.
Part #: 5426-2958 Weight: 1.9 lbs.

PIN, SPIKER, 3/4” X 3”
3/4” diameter x 3” long steel pin for spikers, with 1” od shoulder and one 5/32” pin hole.
Part #: 3301-675 Weight: 0.42 lbs.
MAINTENANCE OF WAY PARTS

PUSHER GUIDE SUPPORT
This pusher guide support is the replaceable front for the Spike Tray Head for spikers.

Left Hand
Part #: 3392-0068-IPS  Weight: 3.4 lbs.

Right Hand
Part #: 3392-0067-IPS  Weight: 3.4 lbs.

PUSHER BLOCK ASS’Y KIT, LH & RH
Complete left or right pusher block assembly kit for spikers, composed of pusher block, pusher guide block, pusher block link, washer stack, hex head shoulder block, locknut, clipped-head clevis pin, and hairpin cotter.

Part #: 9641-1239-IPS (Left Hand)  Weight: 0.73 lbs.
Part #: 9641-1240-IPS (Right Hand)  Weight: 0.73 lbs.

1 PUSHER BLOCK, LH & RH
Pusher block for Super B and Super C Spikers.

Part #: 1822-1590-IPS (Left Hand)  Weight: 0.64 lbs.
Part #: 1822-1585-IPS (Right Hand)  Weight: 0.64 lbs.

2 PUSHER GUIDE
Pusher guide for breakaway style puller block assembly for Hydra, Super B and Super C Spikers.

Part #: 1822-1888  Weight: 0.24 lbs.

3 LINK, PUSHER BLOCK
Cast and machined pusher block link for spiker machines, upgraded with a “V” groove to accommodate the Pusher Guide (# 1822-1888).

Part #: 4770-6088-IPS  Weight: 0.55 lbs.

4 WASHER STACK ASS’Y
Disc Spring Stack made up of 6 pairs of 7488-0710 Disc Springs.

Part #: 9641-0474  Weight: 0.04 lbs.

5 5/16” NC LOCK NUT
5/16” lock nut for pusher block assemblies.

6 BOLT, HEX HEAD SHOULDER, 3/8” X 1-3/4”
3/8” x 1-3/4” Hex Head Shoulder Bolt; threaded end is 5/16” NC.
Part #: 4770-6088-03

7 WASHER, SAE, 1/2”
1/2” SAE washer for pusher block assemblies.

8 PIN, CLIPPED HEAD CLEVIS, 1/4” X 1-3/16”
1/4” x 1-3/16” Clipped head clevis pin specially designed for pusher block assemblies.
Part #: 4770-6088-02

9 PIN, BRIDGE, 0.062” X 1-5/16”
1/4” x 1-3/8” Clevis Pin for pusher block assemblies 9641-1241-IPS & 9641-1240-IPS.
Part #: 4770-6088-01

RETAINER, SPIKE FINGER
1-1/4” high x 1-3/4” long x 3/16” thick steel spike finger retainer for spiker machines. Machined recess with two 5/16” holes.
Part #: 6155-0195  Weight: 0.14 lbs.

RETAINER, TRAY FEED SPIKE
6-5/8” overall length 0.225 gauge spring steel spike retainer for CX Spikers.
Part #: 2100-0050  Weight: 0.11 lbs.
## Maintenance of Way Parts

### Spiker

<table>
<thead>
<tr>
<th>Part #: 6606-2630</th>
<th>Weight: 0.2 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rod Eye</strong></td>
<td></td>
</tr>
<tr>
<td>3/8” x 3-1/16” rod with a 0.9” od eye for Super C spikers.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part #: 1438-2490</th>
<th>Weight: 6 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rod, Jaw Mount Guide, 1-1/4” X 18”</strong></td>
<td></td>
</tr>
<tr>
<td>Jaw mounting guide rod for spikers. 1-1/4” diameter x 18” long. Model C &amp; CX.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part #: 6390-7308</th>
<th>Weight: 0.05 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Spacer, 5”, 3-7/16” Axle, Steel</strong></td>
<td></td>
</tr>
<tr>
<td>5” od, 3.44” id x 0.06” thick steel spacer for spiker axles.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part #: 4665-0032</th>
<th>Weight: 1.4 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Spike Jaw, 5/8”, LH</strong></td>
<td></td>
</tr>
<tr>
<td>Left hand spike jaw for C &amp; CX spikers.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part #: 6258-7680</th>
<th>Weight: 1 lb.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Spacer, Spiker, Nylon, 5”</strong></td>
<td></td>
</tr>
<tr>
<td>5” od, 3” id x 3/8” thick nylon spacer for spikers.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part #: 8209-0006</th>
<th>Weight: 25 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Spike Tray Head, 5/8”, Cut Spikes, LH</strong></td>
<td></td>
</tr>
<tr>
<td>Spike tray head for spikers. Left hand frame for 5/8” cut spikes.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part #: 7304-9020</th>
<th>Weight: 0.7 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Spring Sleeve</strong></td>
<td></td>
</tr>
<tr>
<td>2.88” id x 3.06” od spring sleeve for CX spikers.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part #: 1436-8888</th>
<th>Weight: 2.6 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rod, Guide, 3/4” X 19”</strong></td>
<td></td>
</tr>
<tr>
<td>3/4” diameter x 19” long chrome steel guide rod manufactured and designed for spikers.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part #: 5433-6702</th>
<th>Weight: 0.28 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Shaft, Spiker, 5/8” X 3-1/4”</strong></td>
<td></td>
</tr>
<tr>
<td>5/8” diameter x 3-1/4” long steel shaft for spikers, with one 3/16” pin hole.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part #: 6258-7680</th>
<th>Weight: 1 lb.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Spacer, Spiker, Nylon, 5”</strong></td>
<td></td>
</tr>
<tr>
<td>5” od, 3” id x 3/8” thick nylon spacer for spikers.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part #: 8209-0006</th>
<th>Weight: 25 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Spike Tray, LH</strong></td>
<td></td>
</tr>
<tr>
<td>34” long spike tray for Super B spikers. Attaches to left hand spike tray heads for spike delivery.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part #: 8209-0005</th>
<th>Weight: 25 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Spike Tray, RH</strong></td>
<td></td>
</tr>
<tr>
<td>Part #: 8209-0063</td>
<td>Weight: 33 lbs.</td>
</tr>
<tr>
<td><strong>Spike Tray Head, LH</strong></td>
<td></td>
</tr>
<tr>
<td>Spike tray head for Super C spikers. This frame uses the universal spike tray (8209-0064) with a left hand frame.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part #: 8209-0062</th>
<th>Weight: 33 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Spike Tray Head, RH</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part #: 3608-431</th>
<th>Weight: 0.16 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Spring, Compression, 1-1/4” OD X 4”</strong></td>
<td></td>
</tr>
<tr>
<td>1-1/4” od x 4” compression spring for model CX spikers.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part #: 2554-1232</th>
<th>Weight: 0.73 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Valve Clamp</strong></td>
<td></td>
</tr>
<tr>
<td>2” high x 1-1/8” wide x 3/16” thick steel “C” valve clamp for Super C spikers.</td>
<td></td>
</tr>
</tbody>
</table>
# MAINTENANCE OF WAY PARTS

## AXLE, WHEEL
Precision machined 2-1/2" long wheel axle for Mk III and IV tampers. 3/4" NC threaded end.

- **Part #: Z-685273**
- **Weight:** 0.4 lbs.

## WHEEL ASS’Y, BIAS
Bias wheel assembly for tampers. Complete with 5-1/4" diameter bias wheel, axle, bearing and nut. This wheel has a 75° bias.

- **Part #: 0-2302071-0-09**
- **Weight:** 9.6 lbs.

## Bias Wheel Parts

<table>
<thead>
<tr>
<th>Part#</th>
<th>Name</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z-685272</td>
<td>Wheel, Bias, 5-1/8&quot;, 45 Deg.</td>
<td>5-1/8&quot; diameter od, 45° bias wheel for tampers and other custom rail carts.</td>
<td>2.4 lbs.</td>
</tr>
<tr>
<td>C-1695-X01</td>
<td>Wheel, Bias, 4-7/8&quot;, 60 Deg.</td>
<td>4-7/8&quot; diameter od, 60° bias wheel for tampers and other custom rail carts.</td>
<td>2.0 lbs.</td>
</tr>
<tr>
<td>0-2302071-0-09-75D</td>
<td>Wheel, Bias, 75 Deg.</td>
<td>Bias wheel for tamper machines. This wheel has a 75° bias.</td>
<td>2.4 lbs.</td>
</tr>
<tr>
<td>L-40153</td>
<td>Bearing, Bias Wheel</td>
<td>3/4&quot; od, 25/32&quot; id x 9/16&quot; thick single-row, deep groove ball bearing for bias wheel assemblies for tamper machines.</td>
<td>0.25 lbs.</td>
</tr>
<tr>
<td>L-410291</td>
<td>Ring, Bias Wheel Retainer</td>
<td>Retaining ring for bias wheel assemblies.</td>
<td>0.05 lbs.</td>
</tr>
</tbody>
</table>

## BOLT, LINK
1" diameter x 5" long alloy steel link bolt for tampers. Shaft has a 1" long 3/4" NC threaded end.

- **Part #: Z-683433**
- **Weight:** 1 lb.

## BRACKET, CRADLE, TR1
Cradle bracket for TR1/TR10 tie exchanger.

- **Part #: A-5034-XAA-TR1**
- **Weight:** 21 lbs.

## BRACKET, WHEEL
3/8" alloy steel wheel bracket for tampers. 4" x 6" base and 8" overall height.

- **Part #: X-752462-A**
- **Weight:** 12.3 lbs.

---

**Qinghai-Tibet Railway of China** is the world’s highest railway in the world reaching a maximum elevation of 16,641 feet or 5,072 meters.
IPS manufactures replacement bushings for Spiker machines in steel, bronze, aluminum-bronze and phenolic:

<table>
<thead>
<tr>
<th>Part#</th>
<th>Name</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z-754652-001</td>
<td>Bushing, Tamper, 7/8&quot;, Phenolic</td>
<td>7/8&quot; od, 5/8&quot; id x 15/16&quot; long phenolic insulator bushing for tampers.</td>
<td>0.01 lbs.</td>
</tr>
<tr>
<td>Z-683417</td>
<td>Bushing, Tamper, 15/16&quot;, Phenolic</td>
<td>15/16&quot; od, 13/16&quot; id x 15/16&quot; long phenolic insulator bushing for tampers.</td>
<td>0.02 lbs.</td>
</tr>
<tr>
<td>Z-683491</td>
<td>Bushing, Tamper, 15/16&quot;, Phenolic</td>
<td>15/16&quot; od, 13/16&quot; id x 3-7/16&quot; long phenolic insulator bushing for tampers.</td>
<td>0.03 lbs.</td>
</tr>
<tr>
<td>Z-683488</td>
<td>Bushing, Tamper, 1&quot;, Phenolic</td>
<td>1&quot; od, 3/4&quot; id x 5/8&quot; long phenolic insulator cylinder bushing for tampers.</td>
<td>0.02 lbs.</td>
</tr>
<tr>
<td>Z-752202-01-001</td>
<td>Bushing, Insulator, 1-3/16&quot;, Phenolic</td>
<td>1-3/16&quot; od, 7/8&quot; id x 3-1/2&quot; long phenolic insulator bushing for tampers.</td>
<td>0.08 lbs.</td>
</tr>
<tr>
<td>Z-685917</td>
<td>Bushing, Tamper, 1-3/16&quot;, Phenolic</td>
<td>1-3/16&quot; od, 1&quot; id x 1-1/4&quot; long phenolic insulator bushing for tampers.</td>
<td>0.03 lbs.</td>
</tr>
<tr>
<td>A-1856-T03</td>
<td>Bushing, Tamper, 1-1/4&quot;, Phenolic</td>
<td>1-1/4&quot; od, 1&quot; id x 3/4&quot; long phenolic insulator bushing for tamper machines. Harco Mk IV.</td>
<td>0.05 lbs.</td>
</tr>
<tr>
<td>Z-683434</td>
<td>Bushing, Tamper, 1-1/2&quot;, Bronze</td>
<td>1-1/2&quot; od, 1&quot; id x 1-15/16&quot; long bronze link bushing for tampers.</td>
<td>0.62 lbs.</td>
</tr>
<tr>
<td>Z-683436</td>
<td>Bushing, Tamper, 1-3/4&quot;, Bronze</td>
<td>1-3/4&quot; od, 1-1/2&quot; id x 1-15/16&quot; long bronze clamp bushing for tampers, with external grease groove.</td>
<td>0.38 lbs.</td>
</tr>
<tr>
<td>A-5043-Y01</td>
<td>Bushing, Tie Exchanger, 3&quot;, Steel</td>
<td>3&quot; od, 2-1/2&quot; id x 3-3/8&quot; long steel bushing for tie exchangers.</td>
<td>1.75 lbs.</td>
</tr>
<tr>
<td>Z-762754-001</td>
<td>Bushing, Tamper, 3-1/4&quot;, Steel</td>
<td>3-1/4&quot; od, 2-3/4&quot; id x 1-15/16&quot; long steel bushing for tampers, with one chamfered end and one 3-3/8&quot; od shoulder at the other.</td>
<td>1.3 lbs.</td>
</tr>
<tr>
<td>0-1305728-0-01</td>
<td>Bushing, Tamper, 3-3/8&quot;, Bronze</td>
<td>3-3/8&quot; od, 3-1/64&quot; id x 2-1/2&quot; long guide bushing, machined from bronze and used in tampers.</td>
<td>1.4 lbs.</td>
</tr>
<tr>
<td>0-3652060-0-01</td>
<td>Bushing, Tamper, 5&quot;, Aluminum-Bronze</td>
<td>5&quot; od, 4-1/2&quot; id x 2-1/2&quot; long aluminum-bronze bushing for tampers, complete with double grease groove for increased lubrication and wear resistance.</td>
<td>3.0 lbs.</td>
</tr>
<tr>
<td>Z-754560-001</td>
<td>Bushing, Tie Changer, 1-3/8&quot;, Phenolic</td>
<td>1-3/8&quot; od, 1&quot; id x 1&quot; long phenolic insulator bushing for tie exchangers.</td>
<td>0.04 lbs.</td>
</tr>
<tr>
<td>A-5043-Y01</td>
<td>Bushing, Tie Exchanger, 3&quot;, Steel</td>
<td>3&quot; od, 2-1/2&quot; id x 3&quot; long precision machined steel bushing for tie exchangers, with double-grooves for increased grease lubrication. Hardened to 48-50 HRC.</td>
<td>1.8 lbs.</td>
</tr>
<tr>
<td>Z-68273</td>
<td>Bushing, Vibrator, 2-1/4&quot;, Bronze</td>
<td>A 2-1/4&quot; od, 1-3/4&quot; id x 2&quot; long vibrator bushing machined from bronze, and used in tamper vibrator carriers.</td>
<td>2.4 lbs.</td>
</tr>
<tr>
<td>Z-68287</td>
<td>Bushing, Vibrator, 3-1/8&quot;, Bronze</td>
<td>A 3-1/8&quot; od, 2-1/2&quot; id x 2-1/2&quot; long vibrator bushing, machined from bronze, and used in tamper vibrator carriers.</td>
<td>2.4 lbs.</td>
</tr>
<tr>
<td>Z-68287-IPS</td>
<td>Bushing, Vibrator, 3-1/8&quot;, Aluminum-Bronze</td>
<td>A 3-1/8&quot; od, 2-1/2&quot; id x 2-1/2&quot; long vibrator bushing, machined from aluminum-bronze for increased durability, and used in tamper vibrator carriers.</td>
<td>1.8 lbs.</td>
</tr>
</tbody>
</table>
MAINTENANCE OF WAY PARTS

CROSSOVER, TAMPER
2” x 2” x 11” crossover bar for Harsco tampers. Two outer 1-1/4” holes and one threaded center hole.
Part #: Y-68124 Weight: 10.5 lbs.

CYLINDER, BIAS
Bias cylinder for tamper machines.
Part #: B-5705-XAB Weight: 44.5 lbs.

CYLINDER, SQUEEZE
3-1/2” diameter squeeze cylinder for tampers. One 1” id ringball mount at each end, painted safety yellow.
Part #: X-68297 Weight: 20 lbs.

EXTENSION ARM
Extension beam weldment for a Harsco tamper machine. Painted safety red.
Part #: G3369-WAA Weight: 44 lbs.

COVER, HOOK
Protective cover that mounts on the combo clamp frame to shield the hook limit switch. Includes hinge and rubber hood latch assembly. 9-1/2” x 12-3/4” x 5” and painted safety red.
Part #: A-8288-X01 Weight: 10 lbs.

EYE WELDMENT, RH
Right hand 1-1/4” plate steel eye weldment. 9” x 3-1/2”, with four 13/16” holes and 5” x 2” x 2” angle bar attachment. Painted yellow. TR1.
Part #: A-5697-YAA Weight: 10.4 lbs.

Eye Weldment, LH
Part #: A-5697-YAB Weight: 10.4 lbs.

HANDLE, LOCK LEVER
3/4” diameter x 15-1/2” long steel lock lever handle with 7” long 90 deg. handle. Safety yellow paint, with safety red painted handle end. For Tampers Mk II-V & Electric.
Part #: O-1302117-0-01 Weight: 2.7 lbs.

HOOK, TAMPER
1” wide x 3-3/4” long hook for tampers. 3/4” mount.
Part #: 0-1405505-0-01 Weight: 1.2 lbs.

HOOK INSERT, DOUBLE BUMP, THREADED
Double bump hook inserts are manufactured from high-strength alloy steel and are available threaded (A-3033-X02) and unthreaded (A-3033-X01). Mk III & IV.
Part #: A-3033-X02 Weight: 10 lbs.

Hook Insert, Double Bump, Unthreaded
Part #: A-3033-X01 Weight: 10 lbs.

HOOK INSERT, SINGLE BUMP, THREADED, STRAIGHT BACK
Manufactured from high-strength alloy steel, IPS hook inserts are designed for tamper machines. Precision machined hardened steel, and hard-faced in the high wear areas to provide for maximum performance. Mk IV & V.
Part #: A-3033-X03-IPS Weight: 10 lbs.

HOOK, TAMPER WELDMENT
Weldment hook for tampers. 11” overall length with 1” pivot hole mount, painted safety yellow.
Part #: 0-2202333-0-01 Weight: 10.4 lbs.
**JAW MOUNT, REINFORCED, LH**
Reinforced left hand jaw mount for TR10 tamper/tie exchangers. 1” key stock is added to the front side to help keep the device from expanding where tie clamps are held.
Part #: C-9720-W04-IPS  Weight: 118 lbs.

**Jaw Mount, Reinforced, RH**
Part #: C-9720-W03-IPS  Weight: 118 lbs.

**LOCK PLATE, TAMPER, 1-1/4” X 5/8” X 1/4”**
1/4” plate, 5/8” wide x 1-1/4” long lock plate for tampers.
Part #: Z-754903-001  Weight: 0.05 lbs.

**LOCK PLATE, TAMPER, 1-7/16” X 3/4” X 1/8”**
1-7/16” long x 3/4” wide x 1/8” thick steel lock plate for tamper machines. Two 1/4” pin holes, painted black. Mk II & Electro.
Part #: Z-688521  Weight: 0.04 lbs.

**LOCKNUT, TAMPER**
2-11/16” wide custom locknut for tampers. 1-3/4” internal thread, 1” thick, with six socket head cap screws and two 9/32” locating holes.
Part #: A-3467-Y01  Weight: 0.7 lbs.

**PAD, HARD-FACED REACTION**
Reaction pad for tampers machined from T1 Plate and hard-faced for increased durability. 6-1/4” x 11-1/4” x 1”.
Part #: Y-68375-01  Weight: 17.6 lbs.

**PAD, HARD-FACED BIAS**
Paddle-shaped hard faced bias pad for tampers with 2 mounting ears and tube on pivot end. Overall size 7” x 12”, complete with 2 bronze bushings.
Part #: A-7660-Y01-IPS  Weight: 50 lbs.

**PAD, LOWER CUSHION, RUBBER**
4-1/2” od, 2-5/8” id x 1/2” thick 45D durometer rubber lower cushion pad for Mk II-IV & Electro tamper machines. Comes with bolt, washers & nut.
Part #: Y-68375-01  Weight: 0.3 lbs.

**PAD, NYLON SLIDE**
7” x 1-1/2” x 3/4” dense nylon slide pad for tampers.
Part #: A-1991-Y01  Weight: 0.4 lbs.

**PAD, WORKHEAD SLIDE SUPPORT**
4” wide x 34-3/4” long x 1/2” high support block assembly for Harsco Tamper Mk II, IV & IV HD workheads. Four (4) units required per workhead (2/side).
Part #: C0692X01  Weight: 3 lbs.

**PAD, SUPPORT BLOCK ASSEMBLY**
2” wide x 34-3/4” long x 1-1/4” high support block assembly for Harsco Tamper Mk II, IV & IV HD workheads. Four (4) units required per workhead (2/side).
Part #: C0694XAA  Weight: 3 lbs.

**PAD, SLIDE ASS’Y, FRONT**
Front slide assembly for tampers, supplied complete with six 5/16”-18 NC diameter x 1-1/4” bolts and six 5/16” diameter lock washers.
Part #: G0852-YAA  Weight: 1.5 lb.
Part #: G0851-YAA  Weight: 1.3 lb.
PAD, NYLON STOP
2-1/4" x 3-1/2" nylon stop pad for tamper/compactor machines. Two countersink placement holes, slopes from 3/4" to 3/8".
Part #: 0-1304826-0-02 Weight: 0.17 lbs.

PAWL, TRAVERSE GEAR
1" x 1" x 4-3/16" steel traverse gear pawl used on the workhead traverse assembly of tampers.
Part #: 0-1305837-0-01 Weight: 0.93 lbs.

IPS high-strength steel pins for tamper and tie exchanger machines:

<table>
<thead>
<tr>
<th>Part#</th>
<th>Name</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>D6987X01</td>
<td>Pin, Axle Roller, 1&quot; dia.</td>
<td>1&quot; diameter x 6-3/4&quot; steel pin used on the combination clamp system on tampers. 1/8&quot; grease fitting.</td>
<td>1.4 lbs.</td>
</tr>
<tr>
<td>D6987X02</td>
<td>Pin, Axle Roller, 1-1/2&quot; dia.</td>
<td>1-1/2&quot; diameter x 7-5/16&quot; steel pin used on the combination clamp system on tampers. 1/8&quot; grease fitting.</td>
<td>3.45 lbs.</td>
</tr>
<tr>
<td>O-3095002-0-09</td>
<td>Pin, Bias Pad, 2&quot; x 11-13/16&quot;</td>
<td>2&quot; diameter x 11-3/16&quot; robust alloy steel guide pin for bias pads on tampers.</td>
<td>10.4 lbs.</td>
</tr>
<tr>
<td>Z-68439-01</td>
<td>Pin, Carrier Connecting, 1&quot; x 4-1/2&quot;</td>
<td>1&quot; diameter x 4-1/2&quot; long carrier connecting pin for tampers. MKII-IV &amp; Elect.</td>
<td>1 lb.</td>
</tr>
<tr>
<td>A-4823-Y01</td>
<td>Pin, Clamp Hook, 1&quot; x 3-3/4&quot;</td>
<td>1&quot; diameter x 3-3/4&quot; long combination clamp hook assembly pin for tampers, with one retaining clip keyway at each end. Mk IV &amp; V.</td>
<td>0.81 lbs.</td>
</tr>
<tr>
<td>Z-683437</td>
<td>Pin, Clamp, 1-1/2&quot; x 9-1/4&quot;</td>
<td>1-1/2&quot; diameter x 9-1/4&quot; long clamp pin for tampers. Two 1/4&quot; pin holes.</td>
<td>4.6 lbs.</td>
</tr>
<tr>
<td>A-4899-Y01</td>
<td>Pin, Extractor, 2-1/2&quot; x 6-1/4&quot;</td>
<td>2-1/2&quot; diameter x 6-1/4&quot; long extractor pin with machined slot on one end for tie exchangers.</td>
<td>9.0 lbs.</td>
</tr>
<tr>
<td>B-9438-YAB-IPS</td>
<td>Pin, Heavy-Duty Extractor, TR10</td>
<td>2-1/2&quot; diameter x 6-3/8&quot; long heavy-duty extractor pin, weld-mounted on 5-1/2&quot; x 3&quot; x 1/2&quot; alloy steel plate for tie exchangers.</td>
<td>10 lbs.</td>
</tr>
<tr>
<td>Z-763104-A</td>
<td>Pin, Main Pivot, 2-3/4&quot; x 15&quot;</td>
<td>2-3/4&quot; diameter x 15&quot; long heavy-duty main pivot pin, with a 2-7/8&quot; alloy steel ring welded to a 1/2&quot; x 5-1/4&quot; diameter shoulder plate. 18&quot; overall length.</td>
<td>27.6 lbs.</td>
</tr>
<tr>
<td>0-2305775-0-01</td>
<td>Pin, Pivot, Bias Cylinder</td>
<td>1-1/2&quot; diameter x 8&quot; long bias cylinder pivot pin for tampers. 3&quot; diameter washer head with six holes, unit comes complete with grease nipple and lubrication groove.</td>
<td>4.2 lbs.</td>
</tr>
<tr>
<td>Z-683430</td>
<td>Pin, Push &amp; Pull, 3/4&quot; x 3-3/4&quot;</td>
<td>3/4&quot; diameter x 3-3/4&quot; long pin for tampers with two 3/16&quot; hairpin hole.</td>
<td>0.46 lbs.</td>
</tr>
<tr>
<td>Z-683430-IPS</td>
<td>Pin, Push &amp; Pull, 3/4&quot; x 3-3/4&quot;</td>
<td>3/4&quot; diameter x 3-3/4&quot; long pin for tampers with 1-1/4&quot; od shoulder. 3/16&quot; hairpin hole.</td>
<td>0.53 lbs.</td>
</tr>
<tr>
<td>O-1406298-0-01</td>
<td>Pin, Shadow Board Lock, 3/4&quot; x 3-1/2&quot;</td>
<td>3/4&quot; diameter x 3-1/2&quot; long shadow board lock pin for tampers, with one 1/4&quot; hairpin hole. One end of this pin chamfered, the other has a 5/16&quot; NF internally threaded hole.</td>
<td>0.4 lbs.</td>
</tr>
<tr>
<td>Z-68440-02</td>
<td>Pin, Squeeze Cylinder, 1&quot; x 3-1/2&quot;</td>
<td>1&quot; diameter x 3-1/2&quot; long pin for squeeze cylinders on tampers.</td>
<td>0.78 lbs.</td>
</tr>
<tr>
<td>O-3015001-0-14</td>
<td>Pin, Tamper, 5/16&quot; x 5/8&quot;</td>
<td>5/16&quot; diameter x 5/8&quot; long steel dowel pin for tampers.</td>
<td>0.03 lbs.</td>
</tr>
<tr>
<td>Z-753872-001</td>
<td>Pin, Tamper, 1&quot; x 2-3/16&quot;</td>
<td>1&quot; diameter x 2-3/16&quot; long steel pivot pin for tampers, with 1/16&quot; x 3/16&quot; slot.</td>
<td>0.5 lbs.</td>
</tr>
<tr>
<td>O-3095002-0-14</td>
<td>Pin, Tamper, 1&quot; x 3-3/4&quot;</td>
<td>1&quot; diameter x 3-3/4&quot; long steel clamp cylinder rod end for tampers.</td>
<td>1 lb.</td>
</tr>
<tr>
<td>O-3095002-0-11IPS</td>
<td>Pin, Tamper, 1&quot; x 5&quot;</td>
<td>1&quot; diameter x 3-5/8&quot; long [to shoulder] steel clamp cylinder barrel shoulder pin for tampers. 5&quot; overall length with 3/4&quot; diameter modified shoulder.</td>
<td>1.06 lbs.</td>
</tr>
<tr>
<td>O-1305774-0-01</td>
<td>Pin, Tamper, 1-1/2&quot; x 5-1/8&quot;</td>
<td>1-1/2&quot; diameter x 5-1/8&quot; long steel bias cylinder pin for tampers. Two 1/4&quot; pin holes. Used with A-7660/YAA-IPS - Pad, Hard-Faced Bias.</td>
<td>2.4 lbs.</td>
</tr>
<tr>
<td>Y-691328-056</td>
<td>Pin, Tamper, 1-1/2&quot; x 5-1/4&quot;</td>
<td>1-1/2&quot; diameter x 5-1/4&quot; long steel pin for tampers, with two 1/4&quot; pin holes.</td>
<td>2.6 lbs.</td>
</tr>
<tr>
<td>Y-691328-055</td>
<td>Pin, Tamper, 1-1/2&quot; x 6-3/4&quot;</td>
<td>1-1/2&quot; diameter x 6-3/4&quot; long steel pin for tampers, with two 1/4&quot; pin holes.</td>
<td>3.29 lbs.</td>
</tr>
<tr>
<td>A7163T66</td>
<td>Pin, Tamper, 1-1/2&quot; x 7-7/8&quot;</td>
<td>1-1/2&quot; diameter x 7-7/8&quot; long high-strength steel pin with two 1/4&quot; pin holes, used on the barrel end of the jack cylinder on tampers.</td>
<td>3.9 lbs.</td>
</tr>
<tr>
<td>Z-683411-01</td>
<td>Pin, Tamper, 1-1/2&quot; x 9-5/8&quot;</td>
<td>1-1/2&quot; diameter x 9-5/8&quot; steel pin for tampers, with two 1/4&quot; pin holes.</td>
<td>4.7 lbs.</td>
</tr>
<tr>
<td>A-5087Y01</td>
<td>Pin, Tie Exchanger, 1/2&quot; x 3-11/16&quot;</td>
<td>1/2&quot; x 3-11/16&quot; long steel tamper pin for tie exchangers, with four 5/32&quot; pin holes.</td>
<td>0.2 lbs.</td>
</tr>
<tr>
<td>A-4900-Y01</td>
<td>Pin, Tie Exchanger, 1-1/4&quot; x 4-3/16&quot;</td>
<td>1-1/4&quot; diameter x 4-3/16&quot; long steel pin for tie exchangers, with machined slot at head. TR1 &amp; 10.</td>
<td>1.4 lbs.</td>
</tr>
<tr>
<td>A-0973-T11</td>
<td>Pin, Tie Exchanger, 1-1/4&quot; x 4-1/4&quot;</td>
<td>1-1/4&quot; diameter x 4&quot; long steel jaw cylinder pin for tie exchangers, with two 1/8&quot; pin holes.</td>
<td>1.4 lbs.</td>
</tr>
<tr>
<td>250010-270M</td>
<td>Pin, Transmission Mount, Modified</td>
<td>Modified transmission mount pin assembly; this replaces the previous assembly of (1) MK-250010-270, (2) MK-MT223-B, &amp; (2) MK-153140-820</td>
<td>2.5 lbs.</td>
</tr>
<tr>
<td>Y-68313-01</td>
<td>Pin, Vibrator</td>
<td>1-13/16&quot; [widest diameter] x 5-7/8&quot; vibrato pin for tampers. Two machines keyways and 1-3/4&quot; NF threaded end.</td>
<td>3.2 lbs.</td>
</tr>
</tbody>
</table>
PISTON, TAMPER, 2” X 1-1/2”, BRONZE
2” od, 1” id x 1-1/2” long bronze piston with 1/2” wide x 3/16” deep keyway and internal grease grooves for tampers.
Part #: Z-681211  Weight: 1 lb.

PISTON, TAMPER, 2” X 5-1/2”, BRONZE
2” od, 1-3/16” id x 5-1/2” long bronze piston with 7/16” wide x 3/16” deep keyway and internal grease grooves for tampers.
Part #: Z-68332-01  Weight: 3.4 lbs.

PIVOT HEAD WELDMENT, LEFT HAND
A heavy-duty steel weldment designed for tie exchangers - lock arm shipped unattached.
Part #: D-6043-WAB  Weight: 135 lbs.

PIVOT HEAD WELDMENT, RIGHT HAND
Part #: D-6043-WAA  Weight: 135 lbs.

PLATE ASS’Y, TIE JAW
1-1/4” alloy steel tie jaw plate assembly for tie exchange machines. Overall dimensions 8” x 17”, with extra T1 steel reinforcement for the four fingers. Four 3/4” NF threaded holes.
Part #: A-3028-YAA  Weight: 19 lbs.

PLATE, HOLD DOWN
2” x 11” x 1/2” hold down plate for tampers. Two 1” holes and one 9/16” threaded mount at centre.
Part #: Z-683441  Weight: 2.8 lbs.

PLATE, STOP, 2-3/4”, STEEL
2-3/4” od steel stop plate with four 1/4” holes @ 1-1/4” centers. 1/2” thick plate, for tampers.
Part #: Z-68053  Weight: 0.52 lbs.

PLATE, GUIDE, NYLON
3/4” thick, 3-3/4” x 5-1/4” nylon guide plate for tampers. Four 9/16” holes.
Part #: Z-683374  Weight: 0.47 lbs.

STORAGE BAR
Storage bar for locking the projector buggy to the lifting frame.
Part #: A-7367-X01  Weight: 5 lbs.

DOOR HOLDER
Rubber bumper to keep the storage bar in the unlocked position when the projector buggy is deployed.
Part #: C-8837-Y02  Weight: 0.15 lbs.

PIVOT SHAFT, TAMPER WORK HEAD, LONG
1-3/4” x 16-1/2” (long) or x 12” (short) high-strength shaft complete with grease nipple, nylock nut, and washer, for Mk IV tampers.
Part #: 4-2300189-0-01  Weight: 10 lbs.

Pivot Shaft, Tamper Work Head, Short
Part #: 4-2400264-0-01  Weight: 8 lbs.

PROJECTOR BUGGY LIFT RACK
The projector buggy lifter rack is designed to lift, carry and position the projector buggy assembly of a tamper machine while in operation.
Part #: BLR-IPS

MAINTENANCE OF WAY PARTS
TAMPERS / TIE EXCHANGERS

2019
P: 604.465.8994 WEB: railwayparts.com
## MAINTENANCE OF WAY PARTS

### PUMP COUNTERSHAFT, MODIFIED
This modified shaft is designed with a longer center section in order to use a narrower ball bearing without seals as opposed to the OEM roller bearings. 6-3/4” long, 1-15/16” widest diameter. Mk II, III & Electro.

- Part #: Y750970-01-001-IPS
- Weight: 4 lbs.

### PUSHER ARM ASSEMBLY
10-1/2” overall length; two 3/4” thick x 3-1/4” long D-plates with 1-1/4” holes connected by a 1” thick 1” x 5-1/4” connecting bar.

- Part #: Y752225-01-A
- Weight: 4 lbs.

### RAIL CLAMP ASS’Y, LEFT
This is a COMPLETE clamp assembly including all pins, clamps, wear plates, links, etc. for the LEFT side of tamper models MKII-V, TR1 and TR10.

- Part #: W683484-L
- Weight: 175 lbs.

- Part #: W683484-R
- Weight: 175 lbs.

### RETAINER, GUIDE ROD
Guide rod retainer for tampers, used to secure combination clamp guide rods.

- Part #: A6229X01
- Weight: 3.2 lbs.

### ROD EYE, 1-1/4”, TR1/10, FEMALE
1-1/4” female rod end, with ringball, for tie exchangers. 5-1/2” high, 2-3/4” wide, with grease nipple. Ringball has a 1” id.

- Part #: 03652049-0-03
- Weight: 2.3 lbs.

### RING, WIPER
Wiper ring for vibrator bushings (part # Z68287).

- Part #: L40525
- Weight: 0.01 lbs.

### RING, RETAINER, 3-1/2”
3-1/2” retainer ring used to secure the vibrator bushing (Z-68287 or Z-68287-IPS) into the workhead carrier.

- Part #: L40072
- Weight: 0.1 lbs.

### ROD, GUIDE, 2-1/2” X 41-3/8”
2-1/2” diameter x 41-3/8” long guide rod for tampers.

- Part #: 01404016-0-01
- Weight: 55 lbs.

### ROD, GUIDE, 4-1/2” X 26”, STEEL
4-1/2” diameter x 26” long guide rod for tamper machines with standard centres drilled at each end. Mk III & IV.

- Part #: A6233-X01
- Weight: 115 lbs.

### ROD, GUIDE, 3” X 26-1/8”, STEEL
3” diameter x 26-1/8” long guide rod for tamper machines with 5” od 6-hole mounting disc at one end. Mk IV.

- Part #: 02203041-0-01
- Weight: 55 lbs.

### ROLLER ASS’Y
Roller assembly for tampers, comprised of one roller (A1676-Y01) and one brass bushing (03652009-0-26).

- Part #: A1681-YAA
- Weight: 2.4 lbs.

### ROLLER ASS’Y, CLAMP FRAME
Roller assembly for combination clamp frames on tampers. 4” wide, 4” od steel roller with a durable aluminum-bronze bushing. 1-1/2” id.

- Part #: 02305761-0-01
- Weight: 12 lbs.
MAINTENANCE OF WAY PARTS

SANDWICH ASS’Y
Sandwich assemblies are used in various ballast maintenance machines to cushion the vibrator and workhead assemblies.
Part #: 2309005A  Weight: 7 lbs.

SANDWICH ASS’Y RETAINING PLATE
Sandwich assembly retaining plate for sandwich assemblies (part #2309005A).
Part #: 0-1404046-1-01  Weight: 2.6 lbs.

SANDWICH ASS’Y UPPER CUSHION MOUNT
Upper cushion mount for sandwich assemblies (part #2309005A). Cushion mount size 5-1/2” long x 3-1/4” wide x 5/8” thick.
Part #: 0-1404045-1-01  Weight: 1.3 lbs.

PLATE, LOWER ADJUSTING
Lower adjusting plate for tampers. 5-3/4” x 5” x 1/2” alloy steel. Identical to # Z-68371.
Part #: 0-1404015-0-01  Weight: 3.3 lbs.

SCREW, BUMPER, 1”
1” x 2-1/2” threaded bumper screw for tampers. 3-1/2” length usable thread, supplied with cotter pin.
Part #: Z-68402-02-IPS  Weight: 1 lb.

CAP, BUMPER SCREW, BRASS
1-1/2” diameter x 1” long brass bumper screw cap used in part # D-8008-YAA bumper screw for tampers.
Part #: D-8008-YAA-01  Weight: 0.43 lbs.

SANDWICH ASS’Y LOWER CUSHION MOUNT
Lower cushion mount for sandwich assemblies (part #2309005A). Cushion Mount size 2-5/8” wide x 5” long x 9/16” thick (c/w 1/2” X 45° chamfered corners.)
Part #: 0-1404574-1-01  Weight: 0.9 lbs.

SANDWICH ASS’Y LOWER RETAINING PLATE
Lower retaining plate for a sandwich assembly (part #2309005A).
Part #: 0-1404575-1-01  Weight: 1.6 lbs.

SANDWICH ASS’Y SPACER
Spacer for sandwich assemblies (part #2309005A).
Part #: 0-1404047-1-01  Weight: 0.5 lbs.

PLATE, UPPER ADJUSTING
Upper adjusting plate for tampers. 5” x 3-1/4” x 3/4” alloy steel.
Part #: Z-68370  Weight: 2 lbs.

SCREW, BUMPER
1” x 4-3/4” overall length bumper screw for tampers; includes brass end with cotter pin and 1” jam nut.
Part #: D-8008-YAA  Weight: 1.3 lbs.

CAP, BUMPER SCREW, BRASS
1-1/2” diameter x 1” long brass bumper screw cap used in part # D-8008-YAA bumper screw for tampers.
Part #: D-8008-YAA-01  Weight: 0.43 lbs.

SEAL, CANNED WIPER, 5-1/8”
5-1/8” od x 4-1/2” id x .312” metal cased wiper/seal for combo clamp frame assemblies (part # A-3031-V01)
Part #: 0-3393001-0-06  Weight: 0.2 lbs.

SHAFT, TAMPER, 1-5/8” X 9-3/4”
1-5/8” diameter x 9-3/4” long steel shaft for tamper machines. One 5/16” pin hole.
Part #: Z-66551  Weight: 5.7 lbs.
MAINTENANCE OF WAY PARTS

**SHAFT, WHEEL**
A 9-1/2” long graduated wheel shaft for tampers, machined from high strength T6 aluminum. The graduated wheel shaft steps down from 1-7/8” maximum diameter to 1-1/2”, to 1”, ending in a 1-1/4” long 5/8” NC threaded end.

Part #: Z-690253-001  Weight: 1.8 lbs.

**SHAFT, WHEEL, MODIFIED**
1-3/16” diameter x 7-3/8” long alloy steel modified wheel shaft for tampers/tie exchangers. Shaft has a 1” long 3/4” NC threaded end with lubrication channel.

Part #: Z-683432  Weight: 1.85 lbs.

**SHIM, GUIDE ROD, SET**
Guide rod shim set for tampers consisting of:
- 5 pcs. 0.010” Thk. x 1-3/8” id x 2-7/16” od
- 1 pc. 0.060” Thk. x 1-3/8” id x 2-7/16” od. Mk II.

Part #: Z-68373-S  Weight: 0.1 lbs.
Shim, Guide Rod, .010  Part #: Z-68373-B
Shim, Guide Rod, .060  Part #: Z-68373-A

**SIGHT GLASS, OIL GAUGE, TAMPER**
Oil gauge sight glass used on work heads for tampers. 1-1/2” hex head, 1” NPT thread

Part #: L-40567  Weight: 0.23 lbs.

**SPACER, TAMPER, 1”, STEEL**
1” od, 13/16” id x 3/16” thick DOM steel spacer for tampers.

Part #: Z-685275  Weight: 0.04 lbs.

**SPACER, TAMPER, 1-1/4”, STEEL, MODIFIED**
Modified 1-1/4” od, 1” id x 1/8” thick DOM steel spacer with heavily chamfered outside edge. This spacer is used on either side of a squeeze cylinder to center it between ears on the carrier and workheads of tampers.

Part #: Z-682674-IPS  Weight: 0.05 lbs.
MAINTENANCE OF WAY PARTS

SPRING, WORKHEAD EXTENSION

Workhead extension spring for Mk IV Tamper machines. 4-11/16" overall length, 1" diameter.

Part #: L-410848-IPS  Weight: 0.2 lbs.

SPROCKET ASS’Y, TRAVERSE

Traverse sprocket assembly including sprocket, bushing, key and three cap screws.

Part #: D-8042-Y01  Weight: 2.8 lbs.

Mk IV HD Swivel Bracket Assembly & Related Pivot Pin Assemblies

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Part #:</th>
<th>Weight:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1a</td>
<td>Swivel Bracket, Tamper Vibrator Carrier (complete), includes:</td>
<td>Y-684448-01</td>
<td></td>
</tr>
<tr>
<td>1b</td>
<td>Bushing, Tamper, 21/4&quot;, Steel</td>
<td>B-7487-Y01-IPS</td>
<td></td>
</tr>
<tr>
<td>1c</td>
<td>Grease Nipple Fitting</td>
<td>L-411694</td>
<td></td>
</tr>
<tr>
<td>2a</td>
<td>Pin Assy, Pivot, Long (complete), includes:</td>
<td>5007907</td>
<td></td>
</tr>
<tr>
<td>2b</td>
<td>Pin, Pivot, Long, 1-3/4&quot; x 14-7/8&quot;, HD Mk IV Tamper</td>
<td>5007783</td>
<td></td>
</tr>
<tr>
<td>2c</td>
<td>Keeper, Anti-Rotation, HD Mk IV Tamper</td>
<td>H3948Y04</td>
<td></td>
</tr>
<tr>
<td>2d</td>
<td>Lock Washer, Disc, 3/4&quot;</td>
<td>H3948Y05</td>
<td></td>
</tr>
<tr>
<td>2e</td>
<td>Bolt, Hex Head, 3/4&quot; x 1-1/2&quot;, w/grease nipple hole</td>
<td>5007906</td>
<td></td>
</tr>
<tr>
<td>2f</td>
<td>Grease Nipple Fitting</td>
<td>L-411694</td>
<td></td>
</tr>
<tr>
<td>2g</td>
<td>Bolt, Hex Head, 1/2&quot; x 1-1/2&quot;</td>
<td>5007905</td>
<td></td>
</tr>
<tr>
<td>2h</td>
<td>Washer, Pivot Pin</td>
<td>5007873</td>
<td></td>
</tr>
<tr>
<td>3a</td>
<td>Pin, Pivot, Short, 1-3/4&quot; x 10-1/2&quot;, HD Mk IV Tamper</td>
<td>5007782</td>
<td></td>
</tr>
<tr>
<td>3b</td>
<td>Keeper, Anti-Rotation, HD Mk IV Tamper</td>
<td>5007872</td>
<td></td>
</tr>
<tr>
<td>3c</td>
<td>Bolt, Hex Head, 1/2&quot; x 1-1/2&quot;</td>
<td>5007905</td>
<td></td>
</tr>
<tr>
<td>3d</td>
<td>Lock Washer, Disc, 3/4&quot;</td>
<td>H3948Y04</td>
<td></td>
</tr>
</tbody>
</table>

TAMPER STABILIZER ASS’Y, UPPER

This upper tamper stabilizer assembly for tampers comes fully supplied with bushings, stabilizer rod and roll pin, and sturdy compression spring.

Part #: 0-2202632-0-01-U  Weight: 15 lbs.

Spring, Tamper Stabilizer Compression

Part #: 0-3641000-0-19  Weight: 1.8 lbs.

Rod Ass’y

Part #: 0-2202634-0-01  Weight: 6.0 lbs.

U-BOLT, 3/4”

3/4" thread U-bolt; 5-1/4" long with 3-3/4" thread per arm. Mk II-IV.

Part #: Z-68133-02  Weight: 1.23 lbs.
**MAINTENANCE OF WAY PARTS**

**WASHER, INSULATOR, 1-15/16”, PHENOLIC**
1-15/16” od, 1” id phenolic insulator thrust washer for tampers. 1/8” thick.
Part #: Z-62175  | Weight: 0.01 lbs.

**WASHER, TAMPER, 1-1/2”, PHENOLIC**
1-1/2” od, 3/4” id phenolic insulator washer for tampers. 1/16” thick.
Part #: Z-683490  | Weight: 0.01 lbs.

**WASHER, TAMPER, 2-1/4”, PHENOLIC**
2-1/4” od, 1” id phenolic insulator washer for tamper machines. 3/16” thick.
Part #: Z-765375-001  | Weight: 0.03 lbs.

**WEAR PLATE, NYLON**
Dense nylon wear plate for tampers, 10-7/8” x 2-3/8” x 1/2”.
Part #: Z-683442  | Weight: 0.7 lbs.

**WORK HEAD SUPPORT, UPPER FRAME LEFT**
Work head support for Mk IV Tamper Machines, for upper left frame.
Part #: A-1176-VAB  | Weight: 155 lbs.

**WORK HEAD SUPPORT, UPPER FRAME RIGHT**

**SUPPORT, WORKHEAD FRAME, LH**
Workhead frame support, left hand, for tampers.
Part #: C0698VAA  | Weight: 48 lbs.

Support, Workhead Frame, RH
Part #: C0698VAB  | Weight: 48 lbs.

**ACTUATOR**
Rebuilt actuator for Harsco Mk IV tampers.
Part #: C0046XAC

Actuator, Horizontal, New
Horizontal actuator for Mk IV tamper machines.
Part #: C0046XAB

Actuator, R&R (Parts Extra)
Repair and return for damaged tamper actuators.
Part #: C0046XAC R&R
Rebuilt and Repair-and-Return services for Data Control boards on Jupiter application modules and systems.

<table>
<thead>
<tr>
<th>Part#</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>G-1622-YAB</td>
<td>Board, 16 Channel Output, w/ Jumpers, Rebuilt (Exchange Only)</td>
<td>Rebuilt VME Smart I/O board, 16 channel driver with jumpers for Harsco Mk IV tampers.</td>
</tr>
<tr>
<td>B-0841-XAA</td>
<td>Board, 2170, Rebuilt (Exchange Only)</td>
<td>Rebuilt 2170 board for receiving operator keypad/switch signals on Harsco Mk IV tampers.</td>
</tr>
<tr>
<td>G-1622-YAA</td>
<td>Board, 16 Channel Output, w/o Jumpers, Rebuilt (Exchange Only)</td>
<td>Rebuilt VME Smart I/O board, 16 channel driver without jumpers for Harsco Mk IV tampers.</td>
</tr>
<tr>
<td>D-6963-Y01</td>
<td>Board, 486, Rebuilt (Exchange Only)</td>
<td>Rebuilt 486 board for Mk IV tampers.</td>
</tr>
<tr>
<td>B-0839-XAA</td>
<td>Board, 2528, Rebuilt (Exchange Only)</td>
<td>Rebuilt 2528 board for activating I/O module board relays for Harsco Mk IV tampers.</td>
</tr>
<tr>
<td>A-6471-WAD</td>
<td>Board, 9100, Rebuilt (Exchange Only)</td>
<td>Rebuilt 9100 board for Harsco Mk IV tampers with VME board.</td>
</tr>
<tr>
<td>B-0843-XAA</td>
<td>Board, 901, Rebuilt (Exchange Only)</td>
<td>Rebuilt 901 board for Mk IV tampers.</td>
</tr>
<tr>
<td>H-5614-Y01</td>
<td>Board, Bridge Driver, Rebuilt (Exchange Only)</td>
<td>Rebuilt bridge driver CPU board for Harsco Mk IV tampers.</td>
</tr>
<tr>
<td>B-2662-WAH</td>
<td>Board, Analog Interface, Rebuilt (Exchange Only)</td>
<td>Rebuilt analog interface between potentiometers/transducers and VME computer. This is an R&amp;R part.</td>
</tr>
<tr>
<td>0-230550-0-01</td>
<td>Board, CPU Output, Rebuilt (Exchange Only)</td>
<td>Rebuilt output board for receiving signals from switches on Mk III Harsco Tampers. C/H PM10A Input. This is an R&amp;R part.</td>
</tr>
<tr>
<td>0-230547-0-01</td>
<td>Board, CPU Input, Rebuilt (Exchange Only)</td>
<td>Rebuilt input board for receiving signals from switches on Mk III Harsco Tampers. C/H PM10A Input. This is an R&amp;R part.</td>
</tr>
<tr>
<td>4016607</td>
<td>Board, J42 Power Supply (Exchange Only)</td>
<td>Rebuilt J42 Box. J42 boxes have replaced previous P42 boards in new style G4 JAM (Jupiter Application Module) boxes for Mk IV Harsco Tampers.</td>
</tr>
<tr>
<td>4022695</td>
<td>Board, J42 Power Supply (Exchange Only)</td>
<td>Rebuilt J42 Box. J42 boxes have replaced previous P42 boards in new style G4 JAM (Jupiter Application Module) boxes for Mk IV Harsco Tampers.</td>
</tr>
<tr>
<td>4022694</td>
<td>Board, J42 Power Supply, R&amp;R (Exchange Only)</td>
<td>Rebuilt J42 Box. J42 boxes have replaced previous P42 boards in new style G4 JAM (Jupiter Application Module) boxes for Mk IV Harsco Tampers.</td>
</tr>
<tr>
<td>H-6430-XAA</td>
<td>Board, P42 PCB Assy, Rebuilt (Exchange Only)</td>
<td>Rebuilt P42 PCB assembly for Jupiter JAM power supplies on Harsco Mk IV tampers.</td>
</tr>
<tr>
<td>H-6430-XAD</td>
<td>Board, P42 Power Supply, R&amp;R (Exchange Only)</td>
<td>Rebuilt P42 board for Jupiter JAM power supplies on Harsco Mk IV tampers.</td>
</tr>
<tr>
<td>0-230531-0-01</td>
<td>Board, Power Supply Controller, Rebuilt</td>
<td>Rebuilt Allen Bradley power supply controller for Harsco Mk III Tampers. This is an R&amp;R part.</td>
</tr>
<tr>
<td>D-5644-XAB</td>
<td>Board, P2 Backplane, R&amp;R (Exchange Only)</td>
<td>Rebuilt P2 backplane board for Mk IV tampers.</td>
</tr>
<tr>
<td>H-6752-XAD</td>
<td>Board, PCB, Rebuilt (Exchange Only)</td>
<td>Rebuilt double-barrel receiver circuit board for Harsco Mk IV tampers.</td>
</tr>
<tr>
<td>C-9286-Y01</td>
<td>Board, Power Supply Controller, Rebuilt</td>
<td>Rebuilt power supply for MKIV VME computer.</td>
</tr>
<tr>
<td>H-6170-XAA</td>
<td>Board, Scanner, 128V Input (Exchange Only)</td>
<td>Rebuilt 128V input scanner board for MKIV tampers.</td>
</tr>
<tr>
<td>C-2438-WAA</td>
<td>Board, Tamper Receiver/Amplifier, Rebuilt (Exchange Only)</td>
<td>Rebuilt computer board for receiving signals from surface and line photocells on Harsco Mk II &amp; Mk III tampers.</td>
</tr>
<tr>
<td>B-0840-XAA</td>
<td>Board, VME 1150 CPU, Rebuilt (Exchange Only)</td>
<td>Rebuilt VME 1150 I/O board, optically coupled 64-bit, for Harsco Mk IV tampers. 24 V.</td>
</tr>
<tr>
<td>A-2662-WAE</td>
<td>Board, VME Backplane, Rebuilt (Exchange Only)</td>
<td>Rebuilt interface between VME computer boards. This is an R&amp;R part.</td>
</tr>
<tr>
<td>A-2662-WAF</td>
<td>Board, VME Backplane, Rebuilt (Exchange Only)</td>
<td>Rebuilt interface between VME computer boards. This is an R&amp;R part.</td>
</tr>
<tr>
<td>C-0979-WAC</td>
<td>Board, VME CPU 110, Rebuilt (Exchange Only)</td>
<td>Rebuilt CPU computer for Harsco Mk IV tampers. This part is superceded by part # C-0979-WAF Rebuilt.</td>
</tr>
<tr>
<td>C-0979-WAF</td>
<td>Board, VME CPU 110, Rebuilt (Exchange Only)</td>
<td>Rebuilt CPU computer for Harsco Mk IV tampers. Customers sending in a C-0979-WAC will receive an updated C-0979-WAF Rebut.</td>
</tr>
<tr>
<td>G-8093-YAA</td>
<td>Board, VMI/VME 3113A, Rebuilt (Exchange Only)</td>
<td>Rebuilt VMI/VME computer CPU board for Harsco Mk IV tampers.</td>
</tr>
<tr>
<td>0-2306408-0-01</td>
<td>Board, Lamp (Exchange Only)</td>
<td>Lamp board for Mk IV tampers.</td>
</tr>
<tr>
<td>0-2302202-0-01</td>
<td>Board, Motor Speed Control, R&amp;R</td>
<td>Motor speed control board for Mk IV tampers.</td>
</tr>
</tbody>
</table>
G5 JAMBOX PROCESSOR MODULE
G5 Jambox processor module for signal coordination on Mk IV tampers.
Part #: 5015210 Rebuilt

JUPITER JAMBOX
Jupiter “jambox” for managing the distributed I/O systems for Mk IV tampers.
Part #: H-5991-Y01 Rebuilt Weight: 10 lbs.
Part #: H-5991-Y03 Rebuilt Weight: 10 lbs.

POWER SUPPLY, REBUILT (EXCHANGE ONLY)
Rebuilt power supply unit for Mk IV tampers.
Part #: 0-2305351-0-01 Rebuilt Weight: 1 lb.

RECEIVER AMPLIFIER
Rebuilt receiver-amplifier for Mk IV tampers.
Part #: L-410287-EX

VOLTAGE REGULATOR, 127V AC (EXCHANGE ONLY)
127V AC voltage regulator for Mk IV tampers.
Part #: L-222797 R&R Weight: 1 lb.
## MAINTENANCE OF WAY PARTS

**Jupiter cables for Tamper data control systems.**

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<thead>
<tr>
<th>Part#</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4022333-IPS</td>
<td>Jupiter Cable, M12 Female/Bare, 3m</td>
<td>M12 Female/Bare Jupiter cable, 3m</td>
</tr>
<tr>
<td>4022334-IPS</td>
<td>Jupiter Cable, M12 Female/Bare, 5m</td>
<td>M12 Female/Bare Jupiter cable, 5m</td>
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<tr>
<td>3405078-IPS</td>
<td>Jupiter Cable, M12 Female/Bare, 7m</td>
<td>M12 Female/Bare Jupiter cable, 7m</td>
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<tr>
<td>4015775-IPS</td>
<td>Jupiter Cable, M12 Female/Bare, 10m</td>
<td>M12 Female/Bare Jupiter cable, 10m</td>
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<tr>
<td>4022336-IPS</td>
<td>Jupiter Cable, M12 Male/18 mm Hydraulic DIN/Diode, 1m</td>
<td>M12 Male/18 mm Hydraulic DIN/Diode Jupiter cable, 1m.</td>
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<td>4022346-IPS</td>
<td>Jupiter Cable, M12 Male/18 mm Hydraulic DIN/Diode, 2m</td>
<td>M12 Male/18 mm Hydraulic DIN/Diode Jupiter cable, 2m.</td>
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<td>4022338-IPS</td>
<td>Jupiter Cable, M12 Male/18 mm Hydraulic DIN/Diode, 3m</td>
<td>M12 Male/18 mm Hydraulic DIN/Diode Jupiter cable, 3m.</td>
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<td>4022341-IPS</td>
<td>Jupiter Cable, M12 Male/18 mm Hydraulic DIN/Diode, 7m</td>
<td>M12 Male/18 mm Hydraulic DIN/Diode Jupiter cable, 7m.</td>
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<tr>
<td>4022342-IPS</td>
<td>Jupiter Cable, M12 Male/18 mm Hydraulic DIN/Diode, 10m</td>
<td>M12 Male/18 mm Hydraulic DIN/Diode Jupiter cable, 10m.</td>
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<tr>
<td>4022369-IPS</td>
<td>Jupiter Cable, M12 Male/Air Valve DIN, 2m</td>
<td>M12 Male/Air Valve DIN Jupiter cable, 2m.</td>
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<td>4022370-IPS</td>
<td>Jupiter Cable, M12 Male/Air Valve DIN, 3m</td>
<td>M12 Male/Air Valve DIN Jupiter cable, 3m.</td>
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<td>4022371-IPS</td>
<td>Jupiter Cable, M12 Male/Air Valve DIN, 5m</td>
<td>M12 Male/Air Valve DIN Jupiter cable, 5m.</td>
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<tr>
<td>4022375-IPS</td>
<td>Jupiter Cable, M12 Male/Air Valve DIN, 10m</td>
<td>M12 Male/Air Valve DIN Jupiter cable, 10m.</td>
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<tr>
<td>3401339-IPS</td>
<td>Jupiter Cable, M12 Male/Bare, 4m</td>
<td>M12 Male/Bare Jupiter cable, 4m.</td>
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<tr>
<td>3401332-IPS</td>
<td>Jupiter Cable, M12 Male/Bare, 10m</td>
<td>M12 Male/Bare Jupiter cable, 10m.</td>
</tr>
<tr>
<td>4022352-IPS</td>
<td>Jupiter Cable, M12 Male/Din, 1m</td>
<td>M12 Male/DIN Jupiter cable, 1m.</td>
</tr>
<tr>
<td>4022354-IPS</td>
<td>Jupiter Cable, M12 Male/Din, 2m</td>
<td>M12 Male/DIN Jupiter cable, 2m.</td>
</tr>
<tr>
<td>4022358-IPS</td>
<td>Jupiter Cable, M12 Male/Din, 5m</td>
<td>M12 Male/DIN Jupiter cable, 5m.</td>
</tr>
<tr>
<td>4022356-IPS</td>
<td>Jupiter Cable, M12 Male/Din, 10m</td>
<td>M12 Male/DIN Jupiter cable, 10m.</td>
</tr>
<tr>
<td>3401324-IPS</td>
<td>Jupiter Cable, M12 Male/Female, 1m</td>
<td>M12 Male/Female Jupiter cable, 1m.</td>
</tr>
<tr>
<td>3401325-IPS</td>
<td>Jupiter Cable, M12 Male/Female, 2m</td>
<td>M12 Male/Female Jupiter cable, 2m.</td>
</tr>
<tr>
<td>3401326-IPS</td>
<td>Jupiter Cable, M12 Male/Female, 3m</td>
<td>M12 Male/Female Jupiter cable, 3m.</td>
</tr>
<tr>
<td>3401327-IPS</td>
<td>Jupiter Cable, M12 Male/Female, 5m</td>
<td>M12 Male/Female Jupiter cable, 5m.</td>
</tr>
<tr>
<td>3401336-IPS</td>
<td>Jupiter Cable, M12 Male/Female, 6m</td>
<td>M12 Male/Female Jupiter cable, 6m.</td>
</tr>
<tr>
<td>3401328-IPS</td>
<td>Jupiter Cable, M12 Male/Female, 7m</td>
<td>M12 Male/Female Jupiter cable, 7m.</td>
</tr>
<tr>
<td>3401329-IPS</td>
<td>Jupiter Cable, M12 Male/Female, 10m</td>
<td>M12 Male/Female Jupiter cable, 10m.</td>
</tr>
<tr>
<td>4022325-IPS</td>
<td>Jupiter Cable, M12 Male/Female Network, 1m</td>
<td>M12 Male/Female Network Jupiter cable, 1m.</td>
</tr>
<tr>
<td>4022326-IPS</td>
<td>Jupiter Cable, M12 Male/Female Network, 2m</td>
<td>M12 Male/Female Network Jupiter cable, 2m.</td>
</tr>
<tr>
<td>4022327-IPS</td>
<td>Jupiter Cable, M12 Male/Female Network, 3m</td>
<td>M12 Male/Female Network Jupiter cable, 3m.</td>
</tr>
<tr>
<td>4022329-IPS</td>
<td>Jupiter Cable, M12 Male/Female Network, 5m</td>
<td>M12 Male/Female Network Jupiter cable, 5m.</td>
</tr>
<tr>
<td>4022330-IPS</td>
<td>Jupiter Cable, M12 Male/Female Network, 7m</td>
<td>M12 Male/Female Network Jupiter cable, 7m.</td>
</tr>
<tr>
<td>4022331-IPS</td>
<td>Jupiter Cable, M12 Male/Female Network, 10m</td>
<td>M12 Male/Female Network Jupiter cable, 10m.</td>
</tr>
<tr>
<td>3401341-IPS</td>
<td>Jupiter Cable, M12 Male/Hydraulic DIN Connector, 1m</td>
<td>M12 Male/Hydraulic DIN Connector Jupiter cable, 1m. Also used as 4022353 cable.</td>
</tr>
<tr>
<td>3401342-IPS</td>
<td>Jupiter Cable, M12 Male/Hydraulic DIN Connector, 2m</td>
<td>M12 Male/Hydraulic DIN Connector Jupiter cable, 2m. Also used as 4022354 cable.</td>
</tr>
<tr>
<td>3401343-IPS</td>
<td>Jupiter Cable, M12 Male/Hydraulic DIN Connector, 3m</td>
<td>M12 Male/Hydraulic DIN Connector Jupiter cable, 3m. Also used as 4022353 cable.</td>
</tr>
<tr>
<td>3401344-IPS</td>
<td>Jupiter Cable, M12 Male/Hydraulic DIN Connector, 5m</td>
<td>M12 Male/Hydraulic DIN Connector Jupiter cable, 5m. Also used as 4022356 cable.</td>
</tr>
<tr>
<td>3401346-IPS</td>
<td>Jupiter Cable, M12 Male/Hydraulic DIN Connector, 10m</td>
<td>M12 Male/Hydraulic DIN Connector Jupiter cable, 10m. Also used as 4022358 cable.</td>
</tr>
</tbody>
</table>
DERAIL ALARM, “SENTINEL” PROJECTOR BUGGY

The “Sentinel” projector buggy derail alarm is an innovative safety device designed to alert Projector Buggy operators when extended projector assemblies have derailed. Sensor attached at bias wheel bracket is linked to mediating Toggle Limit switch and eventually to cabin console where a piercing alarm and LED alert lights indicate when immediate machine halt and rerailing is required. For Mk IV and Mk IV HD tampers.

Part #: 2310090A
Weight: 12 lbs.

CABLE SPLITTER/CONNECTOR, 2 FEMALE/1 MALE

2 Female to 1 Male cable splitter/connector for Jupiter cable systems.

Part #: 414260

CHOPPER DISC, 24-SLOT

24-slot chopper disc for Harsco Mk IV tamper projector buggies.

Part #: Z-754020-A

CABLE KIT, JUPITER SPARES

This robust carry-case contains a selection of critical replacement Jupiter Cables for Tamper Machines. Each cable is 10 m long to allow it to substitute for any damaged or testing cable in the field until the correct replacement cable can be obtained and installed. The following cables are included: 3401329-IPS, 3401332-IPS, 3401364-IPS, 4015775-IPS, 4022331-IPS, 4022342-IPS.

Part #: 2017P-IPS

CONNECTOR, PROJECTOR BUGGY CABLE, MALE

Projector buggy cable male connector. Locking plug, 3 pole, 3 wire, 20 amp, 125/250V, black and white.

Part #: 9965-C

ENCODER BOX, OPTICAL

Rebuilt optical encoder box for distance counting on Harsco Mk IV tampers. This is an R&R part.

Part #: 5004402-IPS R&R

Encoder Box, Optical, Rebuilt (Exchange only)
Part #: 0-3160001-0-04 R&R

FAN BLADE MOD

Jointed fan blade modification for Mk IV tampers.

Part #: 2339-Y01

FILTER ASS’Y, OPTICAL

Optical filter assembly for tamper machines.

Part #: 4007019-IPS

FILTER ASS’Y, INFRA-RED

Infra-red filter assembly for tamper machines.

Part #: Y-684614
Weight: 0.66 lbs.
MAINTENANCE OF WAY PARTS

LENS, OPTICAL
Infra-red optical Lens for surface and line projectors, for Harsco Mk IV tampers.
Part #: 4007018-IPS

MOTOR, 36 VDC HORIZONTAL
36 VDC horizontal motor, used to operate actuators of Mk IV tampers.
Part #: B8904Y01

PHOTOCELL, SILICON
Silicon photocell for Mk IV tampers.
Part #: L-402656

LENS, GLASS PROJECTOR, INFRA-RED, 52MM
HOYA 52mm Infra-Red Glass Filter Lens for surface and line projectors. For Harsco Mk IV tamper.
Part #: 4028400

LIMIT SWITCH ASS’Y, VME
Heavy-duty plug-in clamp frame limit switch with for Harsco IV tampers. Side rotary standard, 1/2-14 NPT, and rated for -40° C.
Part #: L-422907

PHOTOCELL, LEAD SULPHIDE
Lead sulphide photocell for Mk IV tampers.
Part #: L-410284

RECEPTACLE PANEL MOUNT
Projector buggy cable connector for receptacle boxes on Harsco Mk IV tampers. 3-pole, 3-wire flanged female outlet, 20 Amp 125V.
Part #: L-421260

REPLACEMENT STRING, STRING POT
Replacement string for Mk IV tamper workhead string pots.
Part #: G5099Y02

SWITCH, PRESSURE
Transmission clutch pressure switch for Harsco Mk IV tampers. 1/4”-18 NPT male.
Part #: A-7081-Y13

SWITCH, PROXIMITY
Proximity switch with 2 metre cable for Mk IV tampers.
Part #: L-40624

HOUSING, REPAIR
Double barrel housing repair for tamper machines.
Part #: 4007013 Rebuilt

SWITCH, SQUEEZE PISTON
Sealed piston squeeze pressure switch. This item ends the Tamping cycle on the Harsco Mk II, Mk III, and VME Mk IV tampers. Identical to 500060000.
Part #: L-40624

Weight: 0.5 lbs.
MAINTENANCE OF WAY PARTS

**BUSHING, GRIPPER PIVOT BRACKET, STEEL, 2-1/2”**
2-1/2” od, 2” id x 2” long steel gripper pivot bracket bushing.

- **Part #: 22127892**
- **Weight: 1 lb.**

**BUSHING, GRIPPER, 1-1/4” X 2”, STEEL**
1-1/4” od x 2” long steel bushing for gripper pivot brackets.

- **Part #: 2210-7232**
- **Weight: 0.25 lbs.**

**BUSHING, TIE CLAMP, 2-1/2”, BRONZE**
2-1/2” od, 2” id x 2-1/2” long bronze bushing for tie exchange machines.

- **Part #: 2212-7904**
- **Weight: 1.4 lbs.**

**BUSHING, TIE EXCHANGER, 3”, BRONZE**
3” od, 2-1/2” id x 2-7/16” long bronze carriage bushing for tie exchange machines.

- **Part #: 2213-1240**
- **Weight: 1.4 lbs.**

**PIN, TIE GRIPPER CYLINDER**
1” diameter x 4-1/2” long steel tie gripper cylinder pin for TRIPP machines.

- **Part #: 5426-0520**
- **Weight: 1.3 lbs.**

**PIN, GRIPPER ARM JAW**
Gripper Jaw Arm Pin used on a TRIPP tie exchanger gripper assembly. Four per machine.

- **Part #: 5410-5111**
- **Weight: 4.5 lbs.**

**SLEEVE, BUSHING, STEEL, 1-7/8”**
Steel tie gripper bushing for gripper jaw arm pin and TRIPP wheel axles (5410-5111 & 54261725).

- **Part #: 2203-9205**

**WHEEL AXLE, TRIPP**
A non-insulated wheel axle for a Nordco-Tripp machine.

- **Part #: 54261725**
## MAINTENANCE OF WAY PARTS

### KERSHAW TIE CRANE

#### BUSHING, TIE CRANE, 1-1/4”, STEEL
1-1/4" od, 1” id x 1” long steel tension bushing for tie crane machines.

- **Part #**: 16.1469
- **Weight**: 0.12 lbs.

#### PIN, TIE CRANE, 3/4” X 3-7/16”
3/4" diameter x 3-7/16" long pin for Kershaw tie cranes with 1-3/16" od shoulder. 1/4" hairpin hole.

- **Part #**: 53.1052-A
- **Weight**: 0.5 lbs.

#### PIN, TIE CRANE, 3/4” X 8”
3/4" diameter x 8" long steel spacer link pin for tie crane machines, with two 1/4" pin holes.

- **Part #**: 53.1072
- **Weight**: 1 lb.

#### PIN, TIE CRANE, 1” X 6-1/2”
1” diameter x 6-1/2” long steel pivot pin for tie crane machines, with 1-1/2” diameter modified shoulder and one 1/4” pin hole.

- **Part #**: 53.0978
- **Weight**: 1.9 lbs.

#### PIN, TIE CRANE, 1” X 7-1/8”
1” diameter x 7-1/8” long steel pivot pin for tie crane machines, with 1-1/2” diameter shoulder. One 1/2” pin hole.

- **Part #**: 53.0973-A
- **Weight**: 1.7 lbs.

#### PIN, TIE CRANE, 1-1/2” X 2-5/8”
1-1/2” diameter x 2-5/8” long steel pivot pin for tie crane machines, with 2” diameter shoulder. One 1/4” pin hole.

- **Part #**: 53.1055-A
- **Weight**: 1.6 lbs.

#### PIN, TIE CRANE, 1-1/2” X 6”
1-1/2” diameter x 6” long steel boom pivot pin for tie crane machines, with one 1/4” pin hole and threaded hole for grease nipple and lubrication holes.

- **Part #**: 53.0978
- **Weight**: 3.1 lbs.

#### PIN, TIE CRANE, 3/4” X 2-3/8”
3/4” diameter x 2-3/8” long steel butt grapple pin with 1-3/4” diameter modified shoulder and one 1/4” pin hole.

- **Part #**: 53.1015-A
- **Weight**: 0.4 lbs.

#### PIN, TIE CRANE, 3/4” X 6-5/8”
3/4” diameter x 6-5/8” long steel pivot pin for tie crane machines, with 2” diameter modified shoulder and one 1/4” pin hole.

- **Part #**: 53.1057-A
- **Weight**: 0.9 lbs.

#### PIN, TIE CRANE, 1” X 2-1/2”
1” diameter x 2-1/2” long steel pin for Kershaw tie cranes, with 1-1/2” diameter modified shoulder and one 1/4” pin hole.

- **Part #**: 53.1053-A
- **Weight**: 0.7 lbs.

#### PIN, TIE CRANE, 1” X 6-1/2”
1” diameter x 6-1/2” long steel pivot pin for tie crane machines, with 1-1/2” diameter shoulder. One 1/4” pin hole.

- **Part #**: 53.0971-A
- **Weight**: 3.1 lbs.

#### SHAFT, TIE CRANE, 1” X 3-1/4”
1” diameter x 3-1/4” long steel idler sprocket shaft for tie crane machines, with 1/8” wide x 1/4” deep keyslot.

- **Part #**: 53.0816-A
- **Weight**: 0.7 lbs.

---

P: 604.465.8994  WEB: railwayparts.com
### Maintenance of Way Parts

#### Adapter, 2”, Steel
2” od, 1” id x 2-7/16” long steel adapter, with 1/4” deep x 1/8” deep internal keyway.

- **Part #: 7302-3000**
- **Weight:** 1.3 lbs.

#### Anchor Remover, HD
Heavy-duty box style anchor remover with through-hardened rollers and heavy-duty alloy plate.

- **Part #: 2310170A**

#### Bolt, Hook Anchor
3/4” x 22-5/16” hook anchor bolt, galvanized C1045 steel. Used to hold ties and timbers in bridge applications. Comes with one 3/4” NC HDG Anco Nut and one 3/4” ‘evertight’ spring (a triple spring lock washer).

- **Part #: 2310016A**
- **Weight:** 3.3 lbs.

#### Bushing, Anchor Applicator, 2-1/2”, Bronze
2-1/2” od, 2-1/4” id x 2” long bronze bushing with grease grooves, for anchor applicator machines.

- **Part #: 451924**
- **Weight:** 0.54 lbs.

#### Bushing, Anchor Remover, HD
Heavy-duty box style anchor remover with through-hardened rollers and heavy-duty alloy plate.

- **Part #: 2310170A**

#### Bushing, Crane Grapple, 1-3/4”, Aluminum-Bronze
1-3/4” od, 1-9/16” id x 1-9/16” long bushing for a 10-ton truck boom crane grapple, complete with grease groove, machined from aluminum-bronze for increased durability.

- **Part #: 135014407**
- **Weight:** 0.2 lbs.

#### Bushing, Stopper, 5/8”, Steel
5/8” od, 1/2” id x 1/4” long steel pull cylinder stopper bushing for Fairmont spike pullers.

- **Part #: 099038**
- **Weight:** 0.01 lbs.

#### Bushing, Tamper, 7/8”, Polymer
7/8” od, 3/4” id x 7/8” long polymer bushing for tamper machines.

- **Part #: 2209-3220**
- **Weight:** 0.01 lbs.

#### Bushing, Tamper, 3”, Bronze
3” od, 2-1/2” id x 2-1/2” long bronze bushing for tamper machines. Centre 3/4” wide x 1/8” deep channel with four 3/8” holes.

- **Part #: 2213-1360**
- **Weight:** 1.2 lbs.

#### Bushing, Tamper, 3”, Bronze
3” od, 2-1/2” id x 2-1/2” long bronze bushing for tamper machines. Centre 3/4” wide x 1/8” deep channel with four 3/8” holes.

- **Part #: 2213-1360**
- **Weight:** 1.2 lbs.

#### Bushing, Tamper, 3”, Bronze
3” od, 2-1/2” id x 2-1/2” long bronze bushing for tamper machines. Centre 3/4” wide x 1/8” deep channel with four 3/8” holes.

- **Part #: 2213-1360**
- **Weight:** 1.2 lbs.

#### Bushing, Stopper, 5/8”, Steel
5/8” od, 1/2” id x 1/4” long steel pull cylinder stopper bushing for Fairmont spike pullers.

- **Part #: 099038**
- **Weight:** 0.01 lbs.

#### Bushing, Tamper, 7/8”, Polymer
7/8” od, 3/4” id x 7/8” long polymer bushing for tamper machines.

- **Part #: 2209-3220**
- **Weight:** 0.01 lbs.

#### Cap, Protective
Protective cap for rail fasteners (such as Pandrol clips) during concrete tie paving.

- **Part #: 12.222**
- **Weight:** 0.45 lbs.

#### Clamp, Rail
Rail clamp for manual tamper machines.

- **Part #: 300945**
- **Weight:** 7.2 lbs.

#### Drill Chuck
Precision machined alloy steel drill chuck designed for quad drills with two set screws to lock drill bit in position.

- **Part #: 10210104-IPS**
- **Weight:** 1 lb.
## MAINTENANCE OF WAY PARTS

### DRILL TEMPLATES

<table>
<thead>
<tr>
<th>Part#</th>
<th>Name</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>2223212A</td>
<td>Drill Template, Crane Rail, Stanley MRS87A</td>
<td>For Stanley hydraulic drills, Crane Rail, for MRS87A rails.</td>
<td>0.05 lbs.</td>
</tr>
<tr>
<td>2223204A</td>
<td>Drill Template, Crane Rail Hydraulic, 104-105 lbs.</td>
<td>For Stanley hydraulic drills. Templates are sold individually, 2 templates are required per drill.</td>
<td>1 lb.</td>
</tr>
<tr>
<td>2223205A</td>
<td>Drill Template, Crane Rail Hydraulic, 135-171 lbs.</td>
<td>For Stanley hydraulic drills.</td>
<td>1 lb.</td>
</tr>
<tr>
<td>2223206A</td>
<td>Drill Template, Crane Rail Hydraulic, 171-175 lbs.</td>
<td>For Stanley hydraulic drills.</td>
<td>1 lb.</td>
</tr>
<tr>
<td>2223209A</td>
<td>Drill Template, 100/115/132/136 lbs. Index Bar</td>
<td>For Stanley hydraulic drills, Crane Rail, 100/115/132/136 lbs. rail profiles.</td>
<td>0.9 lbs.</td>
</tr>
<tr>
<td>2223217A</td>
<td>Drill Template, Gas Rail, 85 lbs.</td>
<td>Drill template for RailBoss gas rail drills for 85 lbs. rails.</td>
<td>0.3 lbs.</td>
</tr>
<tr>
<td>2223218A</td>
<td>Drill Template, Gas Rail, 100 lbs. RA</td>
<td>Drill template for RailBoss gas rail drills for 100 lbs. RA rails.</td>
<td>0.3 lbs.</td>
</tr>
<tr>
<td>2223219A</td>
<td>Drill Template, Gas Rail, 100 lbs. RE</td>
<td>Drill template for RailBoss gas rail drills for 100 lbs. RE rails.</td>
<td>0.3 lbs.</td>
</tr>
<tr>
<td>2223220A</td>
<td>Drill Template, Gas Rail, 115/119 lbs.</td>
<td>Drill template for RailBoss gas rail drills for 115 &amp; 119 lbs. rails.</td>
<td>0.4 lbs.</td>
</tr>
<tr>
<td>2223213B</td>
<td>Drill Template, Gas Rail, UIC54 Kg</td>
<td>Drill template for gas rail drills, for UIC54 Kg rails. Used in sets of 2.</td>
<td>0.8 lbs.</td>
</tr>
<tr>
<td>2223222A</td>
<td>Drill Template, Hydraulic Rail, 80 lbs</td>
<td>Drill template for Stanley hydraulic rail drills for 80 lbs. rails. Templates are sold individually, 2 templates are required per drill.</td>
<td>0.5 lbs.</td>
</tr>
<tr>
<td>2223216A</td>
<td>Drill Template w/ Heel, Rail Hydraulic, 100 lbs. RE</td>
<td>Drill template with heel for Stanley hydraulic rail drills for 100 lbs. rails.</td>
<td>1 lb.</td>
</tr>
<tr>
<td>2223214A</td>
<td>Drill Template, Hydraulic Rail, 115 lbs.</td>
<td>Drill template for Stanley hydraulic rail drills for 115 lbs. rails.</td>
<td>0.7 lbs.</td>
</tr>
<tr>
<td>2223207A</td>
<td>Drill Template, Rail Hydraulic, 85 lbs. CP</td>
<td>For Stanley hydraulic drills.</td>
<td>1 lb.</td>
</tr>
<tr>
<td>2223208A</td>
<td>Drill Template, Rail Hydraulic, 100 lbs. RE &amp; RA</td>
<td>For Stanley hydraulic drills.</td>
<td>1 lb.</td>
</tr>
<tr>
<td>2223215A</td>
<td>Drill Template, Rail Hydraulic, 136 lbs.</td>
<td>Drill template for Stanley hydraulic rail drills for 136 lbs. rails.</td>
<td>0.8 lbs.</td>
</tr>
<tr>
<td>2223213A</td>
<td>Drill Template, Rail Hydraulic, UIC54 Kg</td>
<td>Drill template for hydraulic rail drills, UIC54 Kg rails. Used in sets of 2.</td>
<td>0.8 lbs.</td>
</tr>
<tr>
<td>2223223A</td>
<td>Drill Template, Hydraulic, 2&quot; x 1.9&quot;</td>
<td>2&quot; x 1.9&quot; x 3/8&quot; hydraulic drill template. One 1/2&quot; hole and one 0.48&quot; hole.</td>
<td>0.1 lbs.</td>
</tr>
</tbody>
</table>

Templates are sold individually, 2 templates are required per drill.
MAINTENANCE OF WAY PARTS

DOCUMENT HOLDER, MOW TRAIN
Five slot document holder for MOW trains. 10" deep x 12" high x 20 wide, painted flat black.
Part #: 2310203A  Weight: 16.5 lbs.

FISH PLATE
Fish plate used in joining continuous welded rail sections.
Part #: 2362001B  Weight: 9 lbs.

JOINT PLATE, FROG, 115 LBS.
4" x 6" frog joint plate with three 1-3/8" holes.
Part #: 2223306A  Weight: 6.4 lbs.

JAW, HYDRAULIC RAIL PULLER
Hydraulic rail puller jaw used on Matweld devices to draw rail ends together for joining. 60+ HRC.
Part #: 2310062B (119-1/2 cm diameter)  Weight: 4.2 lbs.
Part #: 2310062A (122-1/2 cm diameter)  Weight: 4.4 lbs.

LINK, SPACER, 1-1/4", STEEL
1-1/4" od, 5/8" id x 3/4" long steel spacer link for tie crane machines.
Part #: 63.0956-A  Weight: 0.2 lbs.

EYE BOLT, 1/2" X 5-1/2"
1/2" diameter x 5-1/2" long steel eye bolt used in gang cars. 1-1/4" od, 1/2" id x 1/2" thick eye.
Part #: M-28331  Weight: 0.4 lbs.

BOLT KIT, FISH PLATE
1" x 3-1/2" bare metal Gr. 5 hex cap bolt with accompanying nut, for Fish Plate connections.
Part #: 2362001B-01

HOPPER DOOR, HEAVY DUTY
Hopper door for Racine scrap and heavy material loaders. 49" wide x 30" long, with three 1-1/2" id mount bushings.
Part #: 778308

JAW TIP
1-3/8" wide x 1-7/8" high jaw tip for Fairmont spike pullers.
Part #: 104190K (Left)  Weight: 0.4 lbs.
Part #: 104191K (Right)  Weight: 0.4 lbs.

JAW, RAIL PULLER
Hardened steel gripping plates for Portaco hydraulic rail pullers; designed to draw rail ends together.
Part #: 3998-00D  Weight: 0.83 lbs.

NUT, CLAMP
2-1/16" id clamp nut for burro cranes.
Part #: T-205  Weight: 0.28 lbs.

PIN ASS’Y, SCRAP CRANE
Scrap crane pin assembly, c/w 3 washers w/ magnet to hammerlock.
Part #: 55128287
### Pin, Grapple, Short, 40mm x 13-3/4”
40mm diameter x 13-3/4” long grapple pin used for 10 ton truck boom grapples.
- Part #: 501051032
- Weight: 7.6 lbs.

### Pin, Grapple, Long, 40mm x 18-1/8”
- Part #: 501051031
- Weight: 10.2 lbs.

### Pin, Load Truck Grapple, Short
40mm dia. x 5-7/16” long load truck grapple pin with 1-25/32” square retaining plate.
- Part #: 509051050
- Weight: 3 lbs.

### Pin, Load Truck Grapple, Long
- Part #: 509051053
- Weight: 4 lbs.

### Pin, Tamper, 5/8” x 4-7/8”
5/8” diameter x 4-7/8” long steel pin for tamper machines, with two 5/32” pin holes.
- Part #: 5424-8300
- Weight: 0.42 lbs.

### Pin, Tamper, 1” x 3-5/8”
1” diameter x 3-5/8” long steel clevis pin for tamper machines, with 3/16” slot and pin hole.
- Part #: 35.0661
- Weight: 0.78 lbs.

### Pin, Tamper, 1-1/4” x 4”
1” diameter x 4” long steel shoulder pin for tamper machines, with 1-1/2” shoulder and one 1/4” pin hole.
- Part #: 03.4867
- Weight: 0.9 lbs.

### Pin, Tie Crane, 3/8” x 6-3/4”
3/8” diameter x 6-3/4” long steel pin for tie crane machines. 5/16” wide x 3/8” deep key slot.
- Part #: A-5000-4
- Weight: 2.8 lbs.

### Pin, Tamper, 1-1/4” x 5-1/2”
1-1/4” diameter x 5-1/2” long steel pin for tie exchanger machines. Two 1/4” pin holes.
- Part #: 5634-6042
- Weight: 1.9 lbs.

### Pin, 1-1/4” x 5”
1-1/4” diameter x 5” long steel pin, with 1/4” keyway and threaded for grease nipple with lubrication holes.
- Part #: 5426-4398
- Weight: Wgt 1.6 lbs.

### Plate, Wear
1-1/4” wide x 4” long case hardened wear plate for Racine dual anchor applicators. 1” high at tallest, 5/8” high main body, with three 3/8” holes.
- Part #: 385058
- Weight: 0.9 lbs.

### Ram, Spike Setter, 1-1/2” x 12-3/8”
1-1/2” diameter x 12-3/8” long S7 tool steel spike setting ram for Fairmont spikers. Hardened and tempered to 56-59 HRC.
- Part #: 138332K
- Weight: 4.6 lbs.
MAINTENANCE OF WAY PARTS

REMOTE PO ASS’Y, BOOM TRUCK REAR RAIL GEAR
Boom truck remote P-O assembly.

- Part #: 818582 (5-3/8") Weight: 2.4 lbs.
  Pin centres for this assembly are 5-3/8" apart.
- Part #: 818546 (5-3/4") Weight: 3.7 lbs.
  Pin centres for this assembly are 5-3/4" apart.
- Part #: 818565 (7-3/4") Weight: 4.1 lbs.
  Pin centres for this assembly are 7-3/4" apart.

RETAINER, DUMP BODY
Dump body retainer for 10-ton truck.

- Part #: 0808151A Weight: 1.8 lbs.

RING, SLIDING CLUTCH
Sliding clutch ring for Fairmont gang cars with 7/8" thick, 4-3/8" od outer ring with 1-9/16" long teeth on the interior with 3-1/16" id.

- Part #: M-21422-K Weight: 1.4 lbs.

SCREW JACK, 7-3/4
Complete screwjack assembly with left and right hand weld nuts and left and right hand jam nuts. Length for this model may be customized on demand; other standard lengths listed below.

- Part #: 0808105B
  SCREW JACK, 13” - 21” 13” minimum to 21” maximum length.
- Part #: 0808105C
  SCREW JACK, 22” - 34” 22” minimum to 34” maximum length.
- Part #: 0808105D
  SCREW JACK, 30” - 46” 30” minimum to 46” maximum length.
- Part #: 0808105E
  SCREW JACK, 36” - 56” 36” minimum to 56” maximum length.
- Part #: 0808105F
  SCREW JACK, 51” - 75” 51” minimum to 75” maximum length.
- Part #: 0808105P
  SCREW JACK EXTENSION, 6” 6” extension for Screw Jacks.
- Part #: 0808105Q
  SCREW JACK EXTENSION, 12” 12” extension for Screw Jacks.

A-FRAME
This frame is used with our screw jacks for positioning rail, forms and structural elements.

- Part #: 0808150A Weight: 16 lbs.

SPACER, TAMPER, 2”, STEEL
2” od, 1” id x 1/8” thick steel spacer for tamper machines.

- Part #: 6387-9936 Weight: 0.1 lbs.

SPLIT COLLAR
2” od, 1-1/4” id x 1/2 long split collar, with 2 socket head cap screws. Used with quad drill chucks (part# 10210104-IPS).

- Part #: 5496438 Weight: 0.26 lbs.

TIE PAD, RUBBER, PUNCHED
Punched as required. Size shown is 10” x 16” x 1/4” thick with six 15/16” diameter holes.

- Part #: RTPP1016-IPS Weight: 1.9 lbs.

TAMPER HEAT SHIELD
Heat shield for Stanley hydraulic tampers. This item comes complete with one 1/4"x20 NC x 4-1/2 grade 5 bolt and a 1/4"x20 stover nut.

- Part #: 2310003A Weight: 2.4 lbs.
**TIE SPACER**
36” high x 24” wide tie spacer device. Adjustable for 12”, 13” & 21” spacing.
Part #: 2310093A  Weight: 27.5 lbs.

**WASHER, ANCHOR APPLICATOR, 1-3/8”, NYLON**
1-3/8” od, 1/2” id nylon insulator washer for anchor applicator machines. 1/16” thick.
Part #: 456961  Weight: 0.01 lbs.

**WOOD TIE PLUGGING COMPOUND, 600 ML X 12**
600ml wood tie plugging compound. Sold by the case - six cartridges per unit.
Part #: E17000010

**Wood Tie Plugging Compound, 1500ml x 6**
Part #: E17003411

**APPLICATOR, BATTERY POWERED, 600 ML**
Battery powered applicator for 600 ml wood tie plugging compound (E17000010).
Part #: E14003327

**Applicator, Extended Battery Powered, 1500 ml**
Part #: E01003420

**APPLICATOR, EXTENDED MANUAL, 600 ML**
Extended manual applicator for 600 ml wood tie plugging compound (E17000010).
Part #: E14000051

**Applicator, Short Manual, 600 ml**
Part #: E14000052

**GLUE TIP, APPLICATOR**
Removable tip for wood tie plugging compound applicators.
Part #: E14003280
UNI-GAGE

The IPS Uni-Gage is a precision measuring instrument that has been designed and calibrated to accurately measure rail wear on a wide range of rail profiles. Designed with high-grade aluminum and stainless steel, the Uni-Gage is available in 4 standard models for measuring rail wear in imperial or metric for 85-141 lb. profiles. Supplied with leather holster with belt loop.

UNI-GAGE IL 85-119 LBS.
Imperial Low
Part #: 4464013A  Weight: 1 lb.

UNI-GAGE IH 100-141 LBS.
Imperial High
Part #: 4464011A  Weight: 1 lb.

UNI-GAGE ML 85-119 LBS.
Metric Low
Part #: 4464012A  Weight: 1 lb.

UNI-GAGE MH 100-141 LBS.
Metric High
Part #: 4464010A  Weight: 1 lb.

RAIL GAUGE - UNI-GAGE
AML 41-60 KGS.
Uni-Gage AML, Metric 41-60 Kgs
Part #: 4464015A  Weight: 1 lb.

UNI-GAGE REPLACEMENT PARTS

LOCK KNOB
Lock knob for all Universal & Duo rail gauges.
Part #: 4464018A-15

HEIGHT GAUGE
Part #: 4464018A-05 (100-141, METRIC)
Part #: 4464018A-06 (100-141, IMPERIAL)
Part #: 4464018A-07 (85-119, METRIC)
Part #: 4464018A-08 (85-119, IMPERIAL)

FINGER, UNIVERSAL IMPERIAL
Universal Imperial finger for Imperial Uni-Gages 4464011A & 4464013A.
Part #: 4464018A-12

FINGER, UNIVERSAL METRIC
Universal Metric finger for Metric Uni-Gages 4464010A & 4464012A.
Part #: 4464018A-11

RAIL GAUGE STOP BLOCK (UNI)
Replacement Stop Block for all Universal Rail Gauges.
Part #: 4464019A-05

ROTATING SPACER 85-119
Rotating spacer for 100-141 lb Universal Rail Gauges 4464012A & 4464013A.
Part #: 4464018A-10

ROTATING SPACER 100-141
Rotating spacer for 100-141 lb Universal Rail Gauges 4464010A & 4464011A.
Part #: 4464018A-09

POUCH, RAIL GAUGE, UNIVERSAL
Leather holster for all Uni- and Duo-Gauges.
Part #: 4464014A

ITEM DESCRIPTION
1. UPPER ADJUSTING KNOB
2. LOWER ADJUSTING KNOB
3. ROTATING DIAL
4. HEIGHT GAUGE
5. STOP BLOCK
6. SPACER
7. FINGER
8. BODY
These 3 points must be in contact with the rail for an accurate measurement
DUO RAIL GAUGES

The IPS Duo Gauges are precisely manufactured and calibrated to accurately measure rail wear on specifically focused profiles of rail. Each Duo Gauge measures two different rail profiles in either Metric or Imperial to determine current wear. Supplied with a leather holster with belt loop.

DUO 0015 M 100/115 METRIC
Part #: 4464002A-IPS
Weight: 1 lb.

DUO 0015 I 100/115 IMPERIAL
Part #: 4464003A-IPS
Weight: 1 lb.

DUO 3236 M 132/136 METRIC
Part #: 4464001A-IPS
Weight: 1 lb.

DUO 3236 I 132/136 IMPERIAL
Part #: 4464004A-IPS
Weight: 1 lb.

DUO GAGE REPLACEMENT PARTS

LOCK KNOB
Lock knob for all Universal & Duo rail gauges.
Part #: 4464018A-15

FINGER, ANODIZED & ETCHED
Part #: 4464032A-05M (DUO 0015, METRIC)
Part #: 4464032A-05I (DUO 0015, IMPERIAL)
Part #: 4464032A-06M (DUO 3236, METRIC)
Part #: 4464032A-06I (DUO 3236, IMPERIAL)

DUO 0015 SPACER, ANODIZED & ETCHED, 115 LB.
115 lb. Spacer for the 100/115 lb. Duo Gauge 4464002A & 4464003A
Part #: 4464032A-08

DUO 3236 SPACER, ANODIZED & ETCHED, 136 LB.
136 lb. Spacer for the 132/136 lb. Duo Gauge 4464001A & 4464004A
Part #: 4464032A-10

HEIGHT GAUGE, ANODIZED & ETCHED
Part #: 4464032A-03I (DUO 0015, IMPERIAL)
Part #: 4464032A-03M (DUO 0015, METRIC)
Part #: 4464032A-04I (DUO 3236, IMPERIAL)
Part #: 4464032A-04M (DUO 3236, METRIC)

DUO 0015 SPACER, ANODIZED & ETCHED, 100 LB.
100 lb. Spacer for the 100/115 lb. Duo Gauge 4464002A & 4464003A
Part #: 4464032A-07

DUO 3236 SPACER, ANODIZED & ETCHED, 132 LB.
132 lb. Spacer for the 132/136 lb. Duo Gauge 4464001A & 4464004A
Part #: 4464032A-09

STOP BLOCK
Part #: 4464032A-13 (DUO 0015)
Part #: 4464032A-14 (DUO 3236)

FIXED SPACER, ANODIZED
Part #: 4464032A-11 (DUO 0015)
Part #: 4464032A-12 (DUO 3236)

POUCH, RAIL GAUGE, UNIVERSAL
Leather holster for all Uni- and Duo-Gauges.
Part #: 4464014A
“ACCURATUS” RAIL GAUGE, LEVEL/ELEVATION
Accuratus Track Gauge and Elevation Level for verifying rail gauge and track elevation. Easily calibrated and lockable for use as a go/no-go gauge. Comes with durable carry bag for storage and transportation.
Part #: 2310030C  Weight: 8 lbs.

RAIL GAUGE, ROLLING TRACK
Measure up to 2 inches gauge variation while walking down the track. Spring-action telescopic assembly expands and contracts as gauge changes. Worker can read gauge while walking by looking down at a lens and gauge scale. Steel roller bearings measure gauge at 5/8” below top of rail.
Part #: 2310091A

RAIL GAUGE, PIPE CENTRE, 56-1/2”
56-1/2” pipe centre track gauge for confirming rail gauge.
Part #: 2310066A  Weight: 15 lbs.

GAUGE, FROG TAPER, SS
16 cm long x 2.4 cm high frog setting taper gauge. Used with a Straight Edge to determine point depression/deviation at 1 mm engraved intervals.
Part #: 268091-IPS  Weight: 0.12 lbs.

GAUGE, FROG WEAR
6 mm thick stainless steel guage for measuring wear on railroad frogs.
Part #: 4464050A  Weight: 0.3 lbs.
GAUGE, FROG WELDING FLANGEWAY
4-1/2” wide x 4-1/4” high frog welding flangeway gauge, with 20 degree finger on one side and a 25 degree finger on the other. Made from 3/4” thick laser-cut aluminum.
Part #: 268090-IPS  Weight: 0.7 lbs.

GAUGE, MOD. HVY FROG
7” long x 1-7/8” high modified heavy point frog gauge.
Part #: TS-1807B-IPS  Weight: 0.05 lbs.

GAUGE, LASER SPOT CHECK
Battery powered laser distance gauge with rail seating bracket. Accurate within 1/32”.
Part #: 4464053A  Weight: 1 lb.

GAUGE, LOCOMOTIVE COUPLER MEASURING
Locomotive coupler measuring gauge made from precision engraved aluminum. Measures 30” - 36” distances.
Part #: 2310099A  Weight: 8.5 lbs.

GAUGE, PEDESTAL LINER & LATERAL WHEEL CLEARANCE
Manufactured from precision machined aluminum and anodized, this gauge is designed to measure wheel clearance on freight cars. Measures 3/4” wide x 6” long.
Part #: 2223200A  Weight: 0.1 lbs.

GAUGE, RAIL CAR BEARING
Rail car bearing gauge with 46” long handle and twist-lock at the user end to hold measuring gauge at measured height. Measures 4” to 6” gaps. Painted safety yellow.
Part #: 2223203A  Weight: 3.6 lbs.

GAUGE, HI-RAIL WHEEL ALIGNMENT
Hi-Rail wheel alignment gauge. Two pcs. per set.
Part #: 2310100A  Weight: 33.5 lbs.

GAUGE, WHEEL
Spring-loaded wheel gauge for rail wheel repair.
Part #: 2310204A  Weight: 1.2 lbs.
### Hand Tools

#### Precision Straight Edge, 36"
Accuratus precision straight edge, 36” long, used to check weld uniformity and flatness after grinding.

**Part #: SE36-IPS**  
**Weight:** 5 lbs.

#### Precision Straight Edge, Adjustable Magnetic, 36"
Accuratus adjustable magnetic precision straight edge. 36” long with levelling adjusters.

**Part #: SE36M-IPS**  
**Weight:** 6.75 lbs.

### Hand Bars for Rail Maintenance

<table>
<thead>
<tr>
<th>Part#</th>
<th>Name</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>2310118A</td>
<td>Bar, Chisel End Tamping</td>
<td>A high-carbon steel bar, 61&quot; long, 7/8&quot; diameter stock, manufactured to AREMA Plan 14-02.</td>
<td>15 lbs.</td>
</tr>
<tr>
<td>2310106A</td>
<td>Bar, Claw, 60&quot;</td>
<td>High-carbon steel claw bar, 60&quot; long. Heat-treated, 7/8&quot; slot size and meeting AREMA Plan 11-97.</td>
<td>27 lbs.</td>
</tr>
<tr>
<td>SP8-9000</td>
<td>Spike Puller, 4 ball</td>
<td>A specialty tool designed to work in conjunction with IPS claw bars to pull rail spikes in areas with limited access.</td>
<td>2.5 lbs.</td>
</tr>
<tr>
<td>2310105A</td>
<td>Bar, Diamond Point Lining, 60&quot;</td>
<td>High-carbon steel lining bar, diamond point end, 60&quot; long, manufactured to AREMA Plan 5-02.</td>
<td>18 lbs.</td>
</tr>
<tr>
<td>2310105B</td>
<td>Bar, Diamond Point Lining, 66&quot;</td>
<td>High-carbon steel lining bar, 66&quot; long, manufactured to AREMA Plan 5-02.</td>
<td>26 lbs.</td>
</tr>
<tr>
<td>2310134A</td>
<td>Bar, Standard Jimmy, 57&quot;</td>
<td>A high-carbon steel bar, 57” long, 1-1/4” diameter stock. Bent chisel tip at one end, tapering to a round point at the other.</td>
<td>22.5 lbs.</td>
</tr>
<tr>
<td>2310105D</td>
<td>Bar, Lining/Crow, Wedge, 60&quot;</td>
<td>A 60&quot; long high carbon steel lining bar with wedge point.</td>
<td>18 lbs.</td>
</tr>
<tr>
<td>4123-90</td>
<td>Bar, Nipping</td>
<td>59-1/2&quot; long (overall) nipping bar with 5&quot; wide x 10&quot; long curved paddle, used for manually levering up and re-aligning rail ties with their rails.</td>
<td>18 lbs.</td>
</tr>
<tr>
<td>2310119A</td>
<td>Bar, Offset Pinch, 48&quot;</td>
<td>A high-carbon steel offset pinch bar, 48&quot; long, 7/8&quot; diameter stock.</td>
<td>10.75 lbs.</td>
</tr>
<tr>
<td>2310067A</td>
<td>Bar, Pry, 24&quot;</td>
<td>A 24&quot; long multi-use high-carbon steel prybar.</td>
<td>2.9 lbs.</td>
</tr>
<tr>
<td>2310132A</td>
<td>Bar, Round Point Railroader Pry</td>
<td>60&quot; long, high-carbon steel railroader pry bar with round point.</td>
<td>14 lbs.</td>
</tr>
<tr>
<td>2310118C</td>
<td>Bar, &quot;Javelin&quot; Point Tamping</td>
<td>The &quot;Javelin&quot; point tamping bar has a 62&quot; long, 1-1/16&quot; diameter high-carbon steel handle, with one spear-point end and one tamping end. A lightweight variant of 2310118B, painted safety orange.</td>
<td>8.5 lbs.</td>
</tr>
<tr>
<td>2310118B</td>
<td>Bar, Spear Point Tamping</td>
<td>A high-carbon steel bar, 64&quot; long, 7/8&quot; diameter stock, with one spear-point end and one tamping end. Manufactured to AREMA Plan 15-02.</td>
<td>15 lbs.</td>
</tr>
<tr>
<td>2310135A</td>
<td>Claw, Hand Spike, Curved</td>
<td>High-carbon steel spike removal claw. Heat treated 7/8&quot; slot size and measuring 7-3/4&quot; long.</td>
<td>5.4 lbs.</td>
</tr>
</tbody>
</table>
DRIFT PINS

Drift punches are ideal tools for aligning objects via their placement holes. These tapered punches have a 38-42 Rockwell hardness and measure as follows:

<table>
<thead>
<tr>
<th>Part#</th>
<th>Name</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>DP7811</td>
<td>Drift Pin, 7/8&quot; x 11&quot;</td>
<td>1.5 lbs</td>
</tr>
<tr>
<td>DP1115</td>
<td>Drift Pin, 1&quot; x 11-1/2&quot;</td>
<td>2.0 lbs</td>
</tr>
<tr>
<td>2310002A</td>
<td>Drift Pin, 1-1/16&quot; x 11&quot;</td>
<td>2.0 lbs</td>
</tr>
<tr>
<td>DP11813</td>
<td>Drift Pin, 1-1/8&quot; x 11-3/8&quot;, <em>Thorn</em></td>
<td>1.8 lbs</td>
</tr>
<tr>
<td>DP11812</td>
<td>Drift Pin, 1-1/8&quot; x 12&quot;</td>
<td>2.5 lbs</td>
</tr>
<tr>
<td>DP13819</td>
<td>Drift Pin, 1-3/8&quot; x 19&quot;</td>
<td>4.2 lbs</td>
</tr>
<tr>
<td>DP14112-F</td>
<td>Drift Pin, 1-1/2&quot; x 14&quot;, Flattened</td>
<td></td>
</tr>
</tbody>
</table>

"THE BIG STIK" TELESCOPIC BRAKE HOOK

Telescopic brake hook used to reach brake wheel.

<table>
<thead>
<tr>
<th>Part#</th>
<th>Name</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>0808875C</td>
<td>Hook, Telescopic Brake, 24&quot; - 42&quot;</td>
<td></td>
</tr>
<tr>
<td>0808875D</td>
<td>Hook, Telescopic Brake, 39&quot; - 62-1/2&quot;</td>
<td></td>
</tr>
<tr>
<td>0808875B</td>
<td>Hook, Telescopic Brake, 49&quot; - 81&quot;</td>
<td></td>
</tr>
<tr>
<td>0808875A</td>
<td>Hook, Telescopic Brake, 67&quot; - 104&quot;</td>
<td></td>
</tr>
<tr>
<td>0808875C-M</td>
<td>Hook, Telescopic Brake, 24&quot; - 42&quot;, Magnetic</td>
<td></td>
</tr>
<tr>
<td>0808875D-M</td>
<td>Hook, Telescopic Brake, 39&quot; - 62-1/2&quot;, Magnetic</td>
<td></td>
</tr>
<tr>
<td>0808875B-M</td>
<td>Hook, Telescopic Brake, 49&quot; - 81&quot;, Magnetic</td>
<td></td>
</tr>
<tr>
<td>0808875A-M</td>
<td>Hook, Telescopic Brake, 67&quot; - 104&quot;, Magnetic</td>
<td></td>
</tr>
</tbody>
</table>

FORKS, RAIL

52-1/2" long rail forks, cast in several hook forms in order to aid in the manual manipulation of lengths of rail.

Part #: 4123-13   Weight: 13 lbs.

PANDROL CLIP PULLER

The Pandrol Clip Puller is a simple hand tool for easy and safe installation of pandrol rail clips on short sections of track. The roller action is designed to ease the installation of clips. The 39-1/2" long handle is available with 8" or 10" long hook - the longer puller used on bridge tie plates.

Part #: 2310043A  (Short Hook)   Weight: 16 lbs.
Part #: 2310042A  (Long Hook)    Weight: 16.5 lbs.

HOOK, PANDROL CLIP

8" & 10" long hooks for installing Pandrol rail clips with the short & long hook Pandrol clip puller (2310043A & 2310042A).

Part #: 2310043A-01  (Short)   Weight: 2 lbs.
Part #: 2310042A-01  (Long)    Weight: 2.5 lbs.
HAND TOOLS

PANDROL TOOL, T-BAR
42” long arm attached to a 12-1/4” fulcrum arm with roller attachment. Painted safety yellow.
Part #: 2310042H  Weight: 13.5 lbs.

PICK, CLAY, SLIP-ON HANDLE, 36”
A high-carbon, heat-treated steel pick with point and chisel ends and 36” long slip-on hickory handle.
Part #: 2310122A  Weight: 8 lbs.

PUNCH, DRIVE PIN, 5/8”
Drive pin punch with an overall length of 13”, with a machined 5/8” diameter punch 5” long. Heat treated to 38-42 HRC.
Part #: 2310002B  Weight: 3 lbs.

PUNCH, PANDROL CLIP
The Robinson Cable Punch is a robust tool designed for the removal of broken or damaged Pandrol Clips. The heat-treated 11” head is attached to a 26” steel cable handle with a rubber sleeve to minimize vibration and absorb shock.
Part #: 2310060A  Weight: 8.5 lbs.

PUNCH, ROUND TRACK, NON-SLIP HANDLE, 36”
Supplied with 36” long, non-slip handle and manufactured from Grade 8 alloy steel as per AREMA Plan 19-02.
Part #: 2310120A  Weight: 9.5 lbs.

PUNCH, TIE PLUG, NON-SLIP HANDLE, 36”
Tie plug punch with non-slip, 36” long, hickory handle. Grade B alloy steel.
Part #: 2310107A  Weight: 9 lbs.

PANDROL CLIP PULLER, “CONVINCER” CLASS 1
The “Convincer” is a heavy-duty, Class 1 Pandrol Clip Puller with a durable steel roller. Designed for abuse and long term repetitive performance, it measures 42” long with a 6” long clip hook. Ideal for “e”-clip and Fastclip systems.
Part #: 2310042B  Weight: 18 lbs.

HOOK, PANDROL CLIP, “CONVINCER”
Part #: 2310042B-01  Weight: 3.2 lbs.

PUNCH, CABLE, 35”
Heat-treated alloy steel cable punch designed to hammer out rail bolts. Rubber handle to absorb shock and minimize vibration. 14” overall head length, 7/8” diameter striking surface, 35” long cable handle.
Part #: 2364000A  Weight: 10 lbs.

PUNCH, “GLADIATOR” RAIL BOLT, 20”
Heat-treated alloy steel cable punch designed to hammer out rail bolts and stubborn pins. Enhanced grip reinforced rubber handle to absorb shock and minimize vibration. 14” overall head length, 7/8” diameter striking surface, 19” long cable handle.
Part #: 2364002A  Weight: 3.9 lbs.
RAIL ANCHOR APPLICATOR
66” long rail anchor applicator hand tool. Mouth end has a 2-1/2” id.
Part #: 2310092A Weight: 25 lbs.

RAIL TONG, TWO PERSON
Cast steel rail tongs designed to move rail manually with 2 people per tong. Measures 44” across the handles and meets AREMA Plan 6-02.
Part #: 2310123A Weight: 15 lbs.

RAIL TONG, TWO PERSON
Cast steel rail tongs designed to move rail manually with 2 people per tong. Measures 44” across the handles and meets AREMA Plan 6-02.
Part #: 2310123A Weight: 15 lbs.

SLEDGE HAMMER, NON-SLIP HANDLE, 36”
Double face sledge hammers manufactured from Grade B alloy steel and supplied with 36” long non-slip hickory handle.
Part #: 2310121A (10 lb.) Weight: 11.2 lbs.
Part #: 2310121B (12 lb.) Weight: 13.2 lbs.
Part #: 2310121C (8 lb.) Weight: 9 lbs.

SLEDGE HAMMER HEAD
Heat-treated, Grade B alloy steel sledge hammer heads, available in 10 and 12 lb. head.
Part #: 2310121A-01 Weight: 10 lbs.
Part #: 2310121B-01 Weight: 12 lbs.

SLEDGE HAMMER, 8 LB., HEAVY-DUTY
8 lb. Grade B double face sledge hammer with non-slip, textured handle made from vibration dampening, thick rubber neck over a rugged steel core. 36” long handle. AREMA compliant.
Part #: 2310121DB Weight: 9 lbs.

SLEDGE HAMMER, 10 LB., HEAVY-DUTY
10 lb. double face sledge hammer with non-slip, textured handle made from vibration dampening, thick rubber neck over a rugged steel core. 36” long handle.
Part #: 2310121U Weight: 14.8 lbs.

SPIKE LIFTER AND PROTECTOR, RIGHT HAND, 36”
A manual spike lifting tool consisting of a grade B alloy steel head and protector. 36” long non-slip hickory handle.
Part #: 2310124A Weight: 8.5 lbs.
HAND TOOLS

SPIKE MAUL, NON-SLIP HANDLE, 36"
Spike Maul with non-slip, 36" long, hickory handle. Bell pattern, Grade B alloy steel conforming to AREMA 3-02. 1-1/4" x 1-5/8" face.
Part #: 2310104A  Weight: 11.4 lbs.

Spike Maul Head
Heat-treated, Grade B alloy steel spike maul head.
Part #: 2310104A-01  Weight: 10 lbs.

SPIKE MAUL, BALANCED, NON-SLIP HANDLE, 36"
Spike Maul with balanced (symmetrical) head and non-slip, 36" long, hickory handle. Bell pattern, Grade B alloy steel
Part #: 2310104B  Weight: 12 lbs.

Spike Maul Head, Balanced
10 lb. spike maul balanced (symmetrical) head. Bell pattern, Grade B alloy steel.
Part #: 2310104B-01  Weight: 10.4 lbs.

SPIKE MAUL, 10 LB., HEAVY-DUTY
Spike Maul with non-slip, textured handle made from vibration dampening, thick rubber neck over a rugged steel core. 10 lb. steel head, 36” long handle.
Part #: 2310104U  Weight: 14 lbs.

SPIKE MAUL, 10 LB., HEAVY DUTY GR B ★
10 lb. Grade B spike maul with non-slip, textured handle made from vibration dampening, thick rubber neck over a rugged steel core. 36” long handle. AREMA compliant.
Part #: 2310104UB  Weight: 11 lbs.

TIE PLATE HOOK
An ergonomic tool for handling and placing large quantities of tie plates with minimal effort. With cushioned handle and paint finish, this item is available with a 32” or 36” long handle.
Part #: TPH-32N (32” Handle)  Weight: 2.4 lbs.
Part #: TPH-36N (36” Handle)  Weight: 2.6 lbs.

SWITCH BROOM, METAL CAP
Metal cap switch broom for clearing rail switches of ice and debris. 8” trim length brown polypropylene, heavy duty construction with fully closed metal cap and riveted construction with chisel point and ferrule. 42” hardwood handle (56” total length), 1-1/8” diameter, 6 brooms per box.
Part #: 2310159A  Weight: 2.6 lbs.

TIE PLATE PULLER, 31”
This 31” lightweight tool is designed to safely, quickly and easily adjust the position of tie plates.
Part #: TPP-31S  Weight: 1.2 lbs.

Tie Plate Puller, 42”
Part #: TPP-42S  Weight: 1.8 lbs.
**HAND TOOLS**

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**TIE PLATE PUSHER, 48”, ANGLED DUO-STUD**
48” tie plate pusher/puller tool with ergonomic handle, with two plate-studs at head to adjust plate positioning.

Part #: TPP-48D

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**TIE PLATE PUSHER, 50”, TRIPLE STUD**
50” tie plate pusher/puller tool, with three studs at head to adjust positioning and two plate studs.

Part #: TPP-50T

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**TIE TONG, CAST ALUMINUM**
Efficient lightweight design for ease of use and long term performance. Ergonomic handles and designed with removable tips.

Part #: 2310108A

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**REPLACEABLE TIP, TIE TONG, 3/8”**
Heat-treated, high-strength 3/8” dia. tie tong tip, complete with nut and lock washer for use with both manufactured and cast aluminum tie tongs. Discounted pricing when purchased in boxes of 12.

Part #: 2310109A

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**TIE TONG, MANUFACTURED ALUMINUM**
Lightweight, ergonomic aluminum tongs designed for ease of use and long term performance. Supplied with removable tips.

Part #: 2310108C

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**TIE TONG, TWO PERSON**
Cast-steel timber tongs designed to move tie manually with 2 people. Measures 42” across the handles and meets AREMA Plan 8-93.

Part #: TPT-42

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**HAMMER HANDLE PRESS**
Safety First! Eliminate field injuries caused by manually removing and replacing hammer handles. This unique tool is designed to safely and easily remove and replace broken hammer handles on spike mauls and sledge hammers using a 6-ton hydraulic jack.

Part #: HHP6-IPS  Weight: 69 lbs.

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**JACK, HYDRAULIC, 6-TON**
6-ton hydraulic jack used on HHP6-IPS Hammer Handle Press.

Part #: HHP6-IPS-01

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**RAIL THREADER**
“TITAN”

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**HAMMER HANDLE PRESS**
Safety First! Eliminate field injuries caused by manually removing and replacing hammer handles. This unique tool is designed to safely and easily remove and replace broken hammer handles on spike mauls and sledge hammers using a 6-ton hydraulic jack.

Part #: HHP6-IPS  Weight: 69 lbs.

---

**JACK, HYDRAULIC, 6-TON**
6-ton hydraulic jack used on HHP6-IPS Hammer Handle Press.

Part #: HHP6-IPS-01
HAND TOOLS

TRACK ADZE C/W 34” HANDLE
Track adze made from heat-treated high-carbon steel with a slip on, 34” handle. Conforms to AREMA Plan 12-07. 5 units per carton. Parts available separately.
Part #: 2310131A  Weight: 6 lbs.
Replaceable Track Adze Head
Part #: 2310131A-01
Replaceable Handle, Track Adze
Part #: 2310131A-02

REPLACEABLE HANDLE WEDGES
IPS supplies a number of options for securing wooden handles to tool heads. The following wedges are available:
Part #: 2310102A-01 Wedge, Metal
Part #: 2310102A-02 Wedge, Wood
Part #: 2310102A-03 Round Wedge, 9/16”
Part #: 2310102A-04 Round Wedge, 3/4”

GUAGE, TRACK TOOL
MEASURING/GRINDING
Manufactured from anodized aluminum, this unique gauge measures wear on multiple common track tools to optimize worker safety.
Part #: 4464020A  Weight: 1 oz.

STORAGE RACK,
SPIKE MAUL/SLEDGE
A heavy-duty storage rack designed to hold spike mauls and sledge hammers. Holds up to 12 tools.
Part #: SMR-12  Weight: 60 lbs.

REPLACEABLE HANDLE, NON-SLIP, 36”
36” hickory sledge and spike maul replacement handles.
Part #: 2310102A  Weight: 2 lbs.

WRENCHES

<table>
<thead>
<tr>
<th>Part#</th>
<th>Name</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>2310137A</td>
<td>Wrench, Track, Single End, 1-1/4”</td>
<td>30” long single end track wrench for 1-1/4” head rail bolts. These bolts typically have 3/4” dia. and are used on 40/60 lb. rails.</td>
<td>16 lbs.</td>
</tr>
<tr>
<td>2310138A</td>
<td>Wrench, Track, Single End, 1-7/16”</td>
<td>36” long single end track wrench for 1-7/16” head rail bolts. These bolts typically have 7/8” dia. and are used on 85 lb. rails.</td>
<td>16 lbs.</td>
</tr>
<tr>
<td>2310139A</td>
<td>Wrench, Track, Single End, 1-5/8”</td>
<td>42” long single end track wrench for 1-5/8” head rail bolts. These bolts typically have 1” dia. and are used on 100/115 lb. rails.</td>
<td>16 lbs.</td>
</tr>
<tr>
<td>2310140A</td>
<td>Wrench, Track, Single End, 1-13/16”</td>
<td>48” long single end track wrench for 1-13/16” head rail bolts. These bolts typically have 1-1/8” dia. and are used on 136 lb. rails.</td>
<td>16 lbs.</td>
</tr>
<tr>
<td>2310141A</td>
<td>Wrench, Track, Single End, 2”</td>
<td>48” long single end track wrench for 2” head rail bolts. These bolts typically have 1-1/4” dia. and are used on rail frogs.</td>
<td>16 lbs.</td>
</tr>
<tr>
<td>2310142A</td>
<td>Wrench, Track, Single End, 2-3/16”</td>
<td>54” long single end track wrench for 2-3/16” head rail bolts. These bolts typically have 1-3/8” dia. and are used on rail frogs.</td>
<td>16 lbs.</td>
</tr>
<tr>
<td>2310180A</td>
<td>Wrench, Track, Double End, 1-5/8” &amp; 1-11/16”</td>
<td>Double-end track wrench with 1-5/8” and 1-11/16” ends. Powder-coated safety yellow.</td>
<td>10 lbs.</td>
</tr>
<tr>
<td>2310181A</td>
<td>Wrench, Track, Double End, 1-11/16” &amp; 1-13/16”</td>
<td>Double-end track wrench with 1-11/16” and 1-13/16” ends. Powder-coated safety yellow.</td>
<td>10 lbs.</td>
</tr>
<tr>
<td>2310182A</td>
<td>Wrench, Track, Double End, 1-13/16” &amp; 2-3/16”</td>
<td>Double-end track wrench with 1-13/16” and 2-3/16” ends. Powder-coated safety yellow. Used on rail frogs.</td>
<td>10 lbs.</td>
</tr>
<tr>
<td>2310183A</td>
<td>Wrench, Track, Double End, 2” &amp; 2-3/16”</td>
<td>Double-end track wrench with 2” and 2-3/16” ends. Powder-coated safety yellow. Used on rail frogs.</td>
<td>10 lbs.</td>
</tr>
<tr>
<td>2310184A</td>
<td>Wrench, Speed, Double End, 1-3/4” &amp; 2”*</td>
<td>Double-end ‘Speed’ wrench with 1-3/4” and 2” ends. Designed to fit the nuts on 1” &amp; 1-1/8” diameter bolts which fall into the category of 100/115 lbs. and some 132 lbs. rail bolts. Powder-coated safety yellow.</td>
<td>10 lbs.</td>
</tr>
</tbody>
</table>

*Double-end ‘Speed’ wrench with 1-3/4” and 2” ends. Designed to fit the nuts on 1” & 1-1/8” diameter bolts which fall into the category of 100/115 lbs. and some 132 lbs. rail bolts. Powder-coated safety yellow.
LOC-IT SAFETY DEVICE
The Loc-It is an innovative device designed to effectively safeguard mechanical service employees from unintended train movement while they are performing work on locomotives. This device is inserted into the reverser control. The unique, patented design of the Loc-It offers users simplicity, reliability, functionality, and above all, safety.
Part #: 2323003A Weight: 0.25 lbs.

FLAG STAFF C/W ANCHOR
Removable 65” flag staff complete with heavy-duty anchor, for centre-mounted flags (not included).
Part #: FSA-65 Weight: 12 lbs.

FLAG STAND, COUPLER MOUNTED
Car coupler mounted sign holder with gooseneck handle to fit into coupler hole. Mounts flags with two holes @ 10-1/4” or 8” centre-to-centre.
Part #: 2310037J
Flag Stand, Coupler Mounted, Lockable
Part #: 2310037K

FLAG STAND, TIE MOUNTED
An economical and lightweight tie mounted flag stand, designed to be used with flags with 8” centre-to-centre mounts. Designed to fold down when not in use, it may also be padlocked into either the upright or folded down position. Flags not included.
Part #: 2310028B Weight: 19 lbs.

FLAG STAND, TEMPORARY TIE MOUNTED
Temporary tie mounted flag stands for polyvinyl flags (not included) designed to be hammered (in pairs) into rail ties until more permanent solutions can be brought to the site. (Flags sold separately).
Part #: 2310080A Weight: 6 lbs.
SAFETY PRODUCTS

RAIL MOUNTED TELESCOPIC
FLAG STAND, HEAVY-DUTY
A heavy-duty rail-mounted flag stand designed for quick attachment to 115 lb. and 136 lb. rail with top-mounted steel flags. Telescoping flag arm is designed to slide into flag staff for ease of transport, and extend and fold down for flag attachment. Positioning screw at root of flag-arm allows the flag orientation to be adjusted to correct for any possible lean in the flag staff. Flags not included.

Part #: 2310037H   Weight: 14 lbs.

FLAG STAND KIT, RAIL MOUNTED, ALUMINUM
Full kit assembly of one blue 28” x 22” polyvinyl flag riveted onto a compact folding flag stand. This narrow rail-mounted flag stand is designed to lock onto the rail head with an innovative, compact clamping system, while the top of the flag consists of a 32” arm that can be folded down against the main staff for ease of transport. Made from lightweight aluminum the staff measures 75-3/4” high x 4” wide x 4-1/2” deep with arm folded down, x 32” with arm extended.

Part #: 2310037C-K   Weight: 7 lbs.

RAIL MOUNTED TELESCOPIC
FLAG STAND, HEAVY-DUTY
A heavy-duty rail-mounted flag stand designed for quick attachment to 115 lb. and 136 lb. rail with top-mounted steel flags. Telescoping flag arm is designed to slide into flag staff for ease of transport, and extend and fold down for flag attachment. Positioning screw at root of flag-arm allows the flag orientation to be adjusted to correct for any possible lean in the flag staff. Flags not included.

Part #: 2310037H   Weight: 14 lbs.

FLAG STAND KIT, RAIL MOUNTED, ALUMINUM
Full kit assembly of one blue 28” x 22” polyvinyl flag riveted onto a compact folding flag stand. This narrow rail-mounted flag stand is designed to lock onto the rail head with an innovative, compact clamping system, while the top of the flag consists of a 32” arm that can be folded down against the main staff for ease of transport. Made from lightweight aluminum the staff measures 75-3/4” high x 4” wide x 4-1/2” deep with arm folded down, x 32” with arm extended.

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RAIL MOUNTED TELESCOPIC
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A heavy-duty rail-mounted flag stand designed for quick attachment to 115 lb. and 136 lb. rail with top-mounted steel flags. Telescoping flag arm is designed to slide into flag staff for ease of transport, and extend and fold down for flag attachment. Positioning screw at root of flag-arm allows the flag orientation to be adjusted to correct for any possible lean in the flag staff. Flags not included.

Part #: 2310037H   Weight: 14 lbs.

FLAG STAND KIT, RAIL MOUNTED, ALUMINUM
Full kit assembly of one blue 28” x 22” polyvinyl flag riveted onto a compact folding flag stand. This narrow rail-mounted flag stand is designed to lock onto the rail head with an innovative, compact clamping system, while the top of the flag consists of a 32” arm that can be folded down against the main staff for ease of transport. Made from lightweight aluminum the staff measures 75-3/4” high x 4” wide x 4-1/2” deep with arm folded down, x 32” with arm extended.

Part #: 2310037C-K   Weight: 7 lbs.
SAFETY PRODUCTS

FLAG ADAPTOR, FABRIC
Adaptor to mount fabric flags on IPS lightweight tie mounted flag stand, lightweight rail mounted flag stand and flag stand with anchor.
Part #: 2310037G  Weight: 5.7 lbs.

FLAG, BLUE ALUMINUM, UNIVERSAL, 18” X 12”
A reflective, blue flag made from lightweight aluminum. Double-sided and measuring 18” x 12”, this flag is key-hole drilled to orient either vertically or horizontally.
Part #: 2310027UB  Weight: 1 lb.

FLAG, BLUE POLYVINYL, 28” X 22”, REFLECTIVE
Blue flag made from polyvinyl chloride with reflective “X” strips. Opened size 22” x 28”, with a 2” gusset along each side. Turned over hem on top, with extra stitching on gusset ends, this flag compacts easily for storage and transport.
Part #: 2310027K  Weight: 1 lb.

FLAG, GREEN ALUMINUM, UNIVERSAL, 18” X 12”
A reflective, green flag made from lightweight aluminum. Double-sided and measuring 18” x 12”, this flag is key-hole drilled to orient either vertically or horizontally.
Part #: 2310027UH  Weight: 1 lb.

FLAG, RED ALUMINUM, UNIVERSAL, 18” X 12”
A reflective, red flag made from lightweight aluminum. Double-sided and measuring 18” x 12”, this flag is key-hole drilled to orient either vertically or horizontally.
Part #: 2310027UR  Weight: 1 lb.

FLAG, BLUE STEEL, TOP MOUNTED, 28” X 22”
Reflective, white-bordered blue flag measures 28” wide x 22” high and is designed with rolled flange on top for quick mounting to flag stand. Durable steel construction, also available in red (2310027F) or extra-reflective (part # 2310027FX). For use with tie mounted flag stand (part # 2310028A) or rail mounted flag stand (part # 2310037A).
Part #: 2310027B  Weight: 6 lbs.

FLAG, GREEN POLYVINYL, 28” X 22”, REFLECTIVE
Green flag made from polyvinyl chloride with reflective “X” strips. Opened size 22” x 28”, with a 2” gusset along each side. Turned over hem on top, with extra stitching on gusset ends, this flag compacts easily for storage and transport.
Part #: 2310027V  Weight: 1 lb.

POST, U-FLANGE, 10’, GALVANIZED
10’ hot-dip galvanized U-flange post for signage/flags. (Signs sold separately).
Part #: 2310064A
Hardware Kit, U-flange Post
Part #: 2310064A-01

FLAG, BLUE ALUMINUM, ONE SIDED, 28” X 22”
A 22” x 28” Blue, one-sided reflective aluminum flag. Pre-punched with 2 mounting “key” holes at 8” centers.
Part #: 2310027LUB-S  Weight: 3 lbs.

FLAG, BLUE ALUMINUM, ONE SIDED, 18” X 12”
A reflective, blue flag made from lightweight aluminum. Double-sided and measuring 18” x 12”, this flag is key-hole drilled to orient either vertically or horizontally.
Part #: 2310027UR-S  Weight: 1 lb.

FLAG, GREEN ALUMINUM, ONE SIDED, 18” X 12”
A reflective, green flag made from lightweight aluminum. Double-sided and measuring 18” x 12”, this flag is key-hole drilled to orient either vertically or horizontally.
Part #: 2310027UH-S  Weight: 1 lb.
FLAG, RED ALUMINUM, ONE SIDED, 22” X 28”
A 22” x 28” red, one-sided reflective aluminum flag. Pre-punched with 2 mounting “key” holes at 8” centers.
Part #: 2310027R

FLAG, RED NYLON MESH W/ STAFF, 18” X 18” (1)★
Nylon red mesh flag measuring 18” wide x 18” high, mounted on 30” long wood flag staff.
Part #: 0923165RMF-01 Weight: 0.3 lbs.

FLAG, RED STEEL, TOP MOUNTED, 28” X 22”
A reflective, white-bordered red flag measures 28” wide x 22” high and is designed with rolled flange on top for quick mounting to flag stand. Durable steel construction, also available in blue (part # 2310027B). For use with tie mounted flag stand (part # 2310028A) or rail mounted flag stand (part # 2310037A). Part #: 2310027C Weight: 6 lbs.

FLAG, RED/BLACK, ALUMINUM, UNIVERSAL, 18” X 12”
A two colour flag with one side red and the other side black, made from lightweight aluminum. Double-sided and measuring 18” x 12”, this flag is key-hole drilled to orient either vertically or horizontally.
Part #: 2310027URB Weight: 1 lb.

FLAG, RED POLYVINYL, 28” X 22”
Red flag made from polyvinyl chloride. Opened size 22” x 28”, with a 2” gusset along each side. Turned over hem on top, with extra stitching on gusset ends, this flag compacts easily for storage and transport.
Part #: 2310027W Weight: 1 lb.

FLAG, RULE 42, RED
20” wide x 27” high red fabric flag mounted by side gussets on 2310177A Folding Flag Stands. Indicates full stop required.
Part #: 2310177F Weight: 1 lb.

FLAG, RULE 42, YELLOW/RED
20” wide x 27” high yellow-over-red fabric flag mounted by side gussets on 2310177A Folding Flag Stands. Indicates slow for approaching full stop.
Part #: 2310177G Weight: 1 lb.

FLAG, YELLOW ALUMINUM, UNIVERSAL, 18” X 12”
A reflective, yellow flag made from lightweight aluminum. Double-sided and measuring 18” x 12”, this flag is key-hole drilled to orient either vertically or horizontally.
Part #: 2310027UY Weight: 1 lb.

FLAG, YELLOW W/ BLACK DIAMONDS, ALUMINUM, 18” X 12”
A reflective, yellow flag with black diamonds “Clearance” warning flag. Lightweight aluminum, double-sided and measuring 18” x 12”.
Part #: 2310027J Weight: 1 lb.

FLAG, YELLOW POLYVINYL, 28” X 22”, REFLECTIVE
Yellow flag made from polyvinyl chloride with reflective “X” strips. Opened size 22” x 28”, with a 2” gusset along each side. Turned over hem on top, with extra stitching on gusset ends, this flag compacts easily for storage and transport.
Part #: 2310027W Weight: 1 lb.
**SAFETY PRODUCTS**

**FLAGS & STANDS**

**FLAG, YELLOW W/ HOLLOW DIAMOND, ALUMINUM, 10” X 8”**
A yellow flag with hollow diamond ‘cut-outs’, for “Restricted Clearance” warning flag. Lightweight aluminum, double-sided and measuring 10” x 8”.

Part #: 2310027JX  Weight: 1 lb.

**FLAG, “END OF TRACK”, BLACK ON WHITE, RED STRIPE BRDR**
End of Track notice, black on white, superimposed over 2-1/4” red-stripe border. 20” wide x 16” high.

Part #: 2310027X  Weight: 2.5 lbs.

**FLAG, “NO CLEARANCE”, 30” X 10”, REFLECTIVE**
30” x 10” black aluminum “NO CLEARANCE” sign. Reflective 5” high arial font white lettering.

Part #: 2310027L  Weight: 2 lbs.

**FLAG, “POINT OF RESTRICTION”, 30” X 10”, REFLECTIVE**
30” x 10” red aluminum “POINT OF RESTRICTION” sign. Reflective 5” high arial font white lettering.

Part #: 2310027M  Weight: 2 lbs.

**FLAG, “NO RIDING OR WALKING”, 30” X 10”, REFLECTIVE**
30” x 10” white aluminum “NO RIDING OR WALKING BETWEEN MOVING EQUIPMENT FROM THIS POINT” sign. Reflective 3” high arial font black lettering.

Part #: 2310027N  Weight: 2 lbs.

**FLAG, “END OF TRACK”, BLACK ON WHITE, RED STRIPE BRDR**
A reflective, yellow and black check “End of Track” warning flag. Lightweight aluminum and measuring 20” x 20” square with mounting holes at 8” centers.

Part #: 2310027J-C  Weight: 3.2 lbs.

**FLAG, “END OF TRACK”, WHITE ON RED, ALUMINUM, 18” X 12”**
A reflective, red flag made from lightweight aluminum. Measuring 18” x 12”, this flag has the words “END OF TRACK” in white, 2” high letters.

Part #: 2310027P  Weight: 1 lb.

**FLAG, RAIL CROSS BUCK, 8” X 48”, REFLECTIVE**
Rail Cross Buck consisting of two pieces of 8” x 48” wide aluminum with diamond-grade red border on white background.

Part #: 2310027T  Weight: 6 lbs.

**FLAG, STOP SIGN, OCTAGONAL, 2’ X 2’**
2’ x 2’ red, diamond-grade octagonal “STOP” sign with white lettering.

Part #: 2310027S  Weight: 5 lbs.
SAFETY PRODUCTS

FLAG, YELLOW DERAIL, 4” X 38-1/2”
4” wide x 38-1/2” high derail flag, with “DERAIL” logo embossed vertically down the length of the flag. Three 3/8” mounting holes.
Part #: 2320027D Weight: 2 lbs.

FLAG, YELLOW DERAIL, 4” X 18”
4” wide x 18” high derail flag, engineer prism grade on lightweight aluminum, with letter “D” logo.
Part #: 2320027B Weight: 1 lb.

TARGET, GREEN ALUMINUM, SQUARE 8” X 8”
A high-intensity reflective square green flag made from lightweight aluminum. 8” high x 8” wide, used primarily for sidings and yards. Used in conjunction with square green flag/target 2320027A-02.
Part #: 2320027A-02 Weight: 1 lb.

TARGET, GREEN REFLECTIVE, 11” X 11”
An 11” x 11” green reflective target complete with pre-cut slit and mounting holes. Used in conjunction with a yellow target (part # YT11).
Part #: GT11 Weight: 1 lb.

TARGET, YELLOW ALUMINUM, CIRCLE 8”
A high-intensity reflective yellow circle flag made from lightweight aluminum. 8” diameter, used primarily for sidings and yards. Used in conjunction with square green flag/target 2320027A-02.
Part #: 2320027A-01 Weight: 1 lb.

TARGET, YELLOW ALUMINUM, SQUARE 8” X 8”
A high-intensity reflective square yellow flag made from lightweight aluminum. 8” high x 8” wide, used primarily for sidings and yards.
Part #: 2320027A-03 Weight: 1 lb.
MARKER, TRACK CLEARANCE, ORANGE
Orange track clearance marker made from highly visible, flexible urethane to indicate maximum cart positioning without fouling converging tracks.
Part #: 2320028A  Weight: 2.8 lbs.

MARKER, TRACK CLEARANCE, YELLOW
Part #: 2320029A  Weight: 2.8 lbs.

TARGET, YELLOW ALUMINUM, OVAL 18” X 15”
A high-intensity reflective yellow oval flag made from lightweight aluminum. 18” high x 15” wide, used primarily for sidings and yards.
Part #: 2320027A  Weight: 1.5 lbs.

TARGET, YELLOW REFLECTIVE, 11” X 11”
An 11” x 11” yellow reflective target complete with pre-cut slit and mounting holes. Designed to be used with green target (part # GT11).
Part #: YT11  Weight: 1 lb.

MAST EXTENSION, SWITCH STAND, 10”
A shortened version of our mast extension (part # 2360023A) for a switch stand. 10” total length, 7/8” x 7/8” bar, painted flat black.
Part #: 2360023B  Weight: 2 lbs.

MAST EXTENSION, SWITCH STAND, 19”
Part #: 2360023A  Weight: 4 lbs.

FLAGGING/FUSEE STORAGE KIT ★
Red metal tool-box containing a variety of emergency warning tools. Included are:
4 red flags with staves, 2 D-cell flashlights, 6 D-cell batteries, and 1 waterproof whistle. Does NOT include fusees.
Part #: 0923187A

FUSEE KIT
Full kit for emergency lighting.
Four highway flares (or fusees) with butt spikes, each designed for 20 minute red illumination.
Comes in a durable, 2-1/2” diameter x 18” long, screw-top plastic canister that fits four fusees. Canister comes with a mounting bracket so that the emergency fusee kit can be mounted in vehicles where desired to keep the kit readily at hand or out of the way of other tools. Components also available separately.
Part #: 0923175A (Full Kit)  Weight: 2.9 lbs.

Fuses
Part #: 2720  Weight: 0.5 lbs.

Fusee Container
Part #: S-300  Weight: 0.84 lbs.
SAFETY PRODUCTS

DERAILS

Heavy-duty hinged and lockable derails in the following rail profiles:

- Derail, Bidirectional Hinged, 112-1141 lbs. Part #: 2310163A Weight: 150 lbs.
- Derail, Bidirectional Hinged, 70-110 lbs. Part #: 2310162A Weight: 150 lbs.
- Derail, Heavy Duty Hinged, 112-141 lbs., Left Part #: 2310160A Weight: 150 lbs.
- Derail, Heavy Duty Hinged, 112-141 lbs., Right Part #: 2310160B Weight: 150 lbs.
- Derail, Heavy Duty Hinged, 70-110 lbs., Left Part #: 2310161A Weight: 150 lbs.
- Derail, Heavy Duty Hinged, 70-110 lbs., Right Part #: 2310161B Weight: 150 lbs.

DERAIL, LOW PROFILE, 80-141 LBS., LEFT

Left hand lockable low-profile derail suitable for 80-141 lbs. rail. Profile sits 2-3/4” above rail. Staff (PDF-LP) and “Derail” flag (PD-1B-IPS) not included.

Part #: PD-6L Weight: 45 lbs.

 Этот уровень не обновляется.

DERAIL, LOW PROFILE, 80-141 LBS., RIGHT

Part #: PD-6R Weight: 45 lbs.

PORTABLE DERAIL FLAG STAFF

48” Flag staff for the PD-1-IPS portable derail.

Part #: PD-1A-IPS Weight: 7 lbs.

DERAIL FLAG, BLUE

Blue and white derail flag for portable and hinged derails.

Part #: PD-1B-IPS Weight: 1 lb.

DERAIL Flag, Red

Part #: PD-1R-IPS Weight: 1 lb.

DERAIL Flag, Yellow ★

Part #: PD-1Y-IPS Weight: 1 lb.

PORTABLE DERAIL WEDGE W/ CHAIN

Replacement wedge with chain for portable derailleurs.

Part #: PD-1W-IPS Weight: 12 lbs.

PORTABLE DERAIL WEDGE W/ CHAIN

48” Flag staff for the PD-4 and PD-5 portable derailers

Part #: PDF-LP Weight: 5.5 lbs.

PORTABLE DERAIL WEDGE W/ CHAIN

Flag staff for the heavy duty lockable derails 2310160A & B and 2310161A & B.

Part #: 2310160C Weight: 4 lbs.
SAFETY PRODUCTS

SAFETY EQUIPMENT

SAFETY PRODUCTS

BATTERY SWITCH
LOCKOUT “BLOC-OUT”
An innovative, positive lockout system developed by IPS that will prevent a locomotive battery knife switch from being engaged while electrical/mechanical repairs are being performed.
Part #: 2323007A Weight: 5 lbs.

CHAIN LINK, WALKWAY
Walkway chain links made from 1/8” diameter stainless spring-steel wire. 1-7/16” id, 2-1/2 coil.
Part #: 2223177A Weight: 0.05 lbs.

CLAMP, SWITCH POINT
Switch point clamp for locking rail switches in place on standard rails of 85-140 lbs. Used to prevent accidental opening of switch points. Can accommodate a standard padlock (not included).
Part #: 2323010A Weight: 9 lbs.

PIN, SWITCH LOCK
Securing switch lock pin with attached chain for locking gates or doors. Six holes for variable length securing points, painted safety yellow for visibility. Padlock not included.
Part #: 2360024A Weight: 0.2 lbs.

HOLDER, FIRST AID KIT
A fabricated steel bracket for securing first aid kits. Measures 2-1/2” x 3-1/2” x 6”, with two holes for mounting bolts. Painted flat black.
Part #: 2223178A Weight: 3.6 lbs.

HOOK, SWITCH STAND W/ CHAIN, 18”
Switch stand hook assembly comprised of two “S” hooks connected with 18” of chain. Safety painted yellow.
Part #: 2360022A Weight: 1.2 lbs.

LIGHT, SMALL LED, AMBER
Amber LED light with 4 LED bulbs complete with magnet and carrying strap. Two modes: steady burn and flashing. Double AA batteries not included.
Part #: MR-25A Weight: 0.3 lbs.
Replacement Lens, Amber, Small
Part #: MR-25A-L

Light, Small LED, Blue
Part #: MR-25B Weight: 0.3 lbs.
Replacement Lens, Blue, Small
Part #: MR-25B-L

Light, Small LED, Red
Part #: MR-25R Weight: 0.3 lbs.
Replacement Lens, Red, Small
Part #: MR-25R-L

LIGHT, LARGE LED, BLUE
A 5-1/2” high, 360 degree blue light with 4” diameter magnetic base. 16 LEDs illuminate a diamond grade lens in four light settings: single, triple, steady, and rotating flash patterns. “D” size batteries not included.
Part #: 2310048A Weight: 1.0 lb.
Light, Large LED, Red
Part #: 2310048B Weight: 1.0 lb.
SAFETY PRODUCTS

**LIGHT, OCTAGONAL, BLUE**
8-1/2” high bi-directional blue lights with 4” diameter magnetic base. Photocell option allows light to turn on automatically in low-light conditions. “D” size batteries not included.

- **Part #: 2310068A**
  - **Weight:** 1.5 lb.
- **Light, Octagonal, Red**
  - **Part #: 2310068B**
  - **Weight:** 1.5 lb.
- **Light, Octagonal, Yellow**
  - **Part #: 2310068C**
  - **Weight:** 1.5 lb.

**LIGHT, MULTI-COLOUR WAND**
15” tall multi-colour light wand with red, green, blue and clear colour filters. 2 “D” cell batteries required (not included).

- **Part #: 2310098A**
  - **Weight:** 2 lbs.

**RERAINT, SLIDING ANCHOR FALL**
Sliding rail anchor designed for fall restraint and arrest for railroad bridge personnel. This durable device is compliant with all CSA regulations, has a working load of 310 lbs., and is usable on rail profiles from 85-141 lbs. Comes with locking carabiner.

- **Part #: 0923178A**
  - **Weight:** 5 lbs.

**CHAIN, WALKWAY SAFETY, 24”**
24” safety chain with snap link, eyebolt, and repair links and plastic tube cover.

- **Part #: 261800**
  - **Weight:** 0.5 lbs.

**SAFETY FALL RESTRAINTS**
This important safety device prevents the worker from falling over the handrail while working on an elevated platform. Manufactured from high-strength aluminum with a powder coated finish, this device sets up easily and is transportable and stored in a convenient carrying case.

- **Part #: 0923147A**
  - **Weight:** 35 lbs.
SAFETY PRODUCTS

WHEEL CHOCK ASS’Y
This steel wheel chock is designed with a steel frame and rubber chocking sections. Measures 34” wide x 40” long.
Part #: 2310041A  Weight: 10 lbs.

WEDGE CHOCK, 115# RAIL, LH
Wedge style wheel chocks designed for 115 lbs. rail. Left Hand.
Part #: WCWSW-115LH
Wedge Chock, 115# Rail, RH
Part #: WCWSW-115RH

WHEEL CHOCK, SINGLE
Single steel wheel chock for exposed rail.
Part #: WCS-4011-09

WHEEL CHOCK, DOUBLE STEEL
Paired steel wheel chocks for use on exposed or flush rails. 15” long handles on each chock for positioning and removal. Safety yellow paint finish.
Part #: WCD-A12  Weight: 12 lbs.
Part #: WCD-A12F (Flush)  Weight: 12 lbs.

WHEEL CHOCK, DOUBLE URETHANE, EXPOSED
Paired heavy-duty urethane “Spark Proof” wheel chocks for chocking freight cars and locomotives on exposed rails. 4” high chocks with two 24” long handles on each chock for positioning and removal. Safety yellow paint finish.
Part #: WCD-U24  Weight: 9 lbs.

REPLACEMENT SPUR, WHEEL CHOCK ★
Replacement spur for wheel chocks, 1/2” square x 2 1/2” long. Two units usually needed per chock.
Part #: WCS-6008  Weight: 0.25 lbs.

WHEEL CHOCK, SINGLE STEEL, W/ FLAG
A steel single wheel chock with 10” x 8” safety flag, for exposed or flush rail. 48” long maneuvering handle with additional lift handle. Safety yellow paint finish.
Part #: WCS-A14  Weight: 16 lbs.
Part #: WCS-A14F (Flush)  Weight: 16 lbs.

WHEEL CHOCK, DOUBLE STEEL, W/ FLAG
A steel double wheel chock with chain and flag. 28” long maneuvering handle, and 10” x 8” safety flag on flag-chock. Safety yellow paint finish.
Part #: WCD-A16  Weight: 16 lbs.
Part #: WCD-A16F (Flush)  Weight: 16 lbs.

NEW!

Car Stop, Hinged, Right ★
Part #: 2310168R

WHEEL CHOCK, CAR STOPPER, URETHANE
Bring slow-moving car to a stop by thrusting urethane wedge several times in front of the car wheel. With each thrust, some of the forward momentum is absorbed. The wedge will hold the wheel temporarily until a steel wheel chock can be installed. A useful means of car control when moving freight cars with a car puller.
Part #: WCCS-U11  Weight: 6 lbs.

NEW!

NEW!

NEW!

NEW!
LOCOMOTIVE, CAR, PASSENGER

**HOPPER PARTS**

**HATCH COVER, NON-VENTED**
10-20” diameter hatch cover, non-vented, for Trinity Railcars.

Part #: RSAHC20TR  Weight: 12 lbs.

**HATCH COVER, VENTED**
6-20” diameter hatch cover, vented, for Trinity Railcars.

Part #: VHXS98TR  Weight: 11 lbs.

**HOPPER DOOR /W WELDED GATE RACKS**
IPS manufactures fabricated steel hopper doors in several sizes and styles. Supplied with welded racks and manufactured to OEM standards. Grey primer finish.

Part #: AEX-116-IPS

**HOPPER DOOR W/ STOPS & RUBBER WIPERS**
Gate rack with stops and rubber wipers. 49-3/4” x 30-5/8”. Grey primer finish.

Part #: SHPX-116-IPS

**HOPPER GATE RACK W/ STOP, AEX**
Cast steel gate rack, with stops, for an AEX Hopper gate. 16-1/2” x 2-3/4”. Grey primer finish.

Part #: AEX-118-IPS

**HOPPER GATE RACK W/O STOP, AEX**
Cast steel gate rack, without stops, for an AEX Hopper. 16-1/2” x 2-3/4”. Grey primer finish.

Part #: AEX-119-IPS

**HOPPER GATE RACK W/O STOP, AEX**
Gate rack without stops for a hopper car. 23-1/2” x 3-3/4”. Grey primer finish.

Part #: 2CH331-IPS

**HOPPER CAPSTAN, AEX**
Capstan for an AEX Hopper gate. Grey primer finish.

Part #: AEX-120-IPS

**HOPPER CAPSTAN, HANDLE OPERATING, W/ CAM**
Hopper capstan for Autolok 2 with handle operated cam.

Part #: MKE-10080

**HOPPER PINION GEAR, AEX**
Pinion gear for an AEX Hopper gate. Grey primer finish.

Part #: AEX-123-IPS

**HOPPER PINION GEAR**
Pinion gear for a hopper gate (part # 2CH331-IPS). Grey primer finish.

Part #: OCH32-IPS

**SOCKET ADAPTER, HOPPER DOOR**
1” female to 1-1/2” male socket adapter for Hopper Door drives.

Part #: 0808135A

**SOCKET, HOPPER DOOR**
1-1/2” driver 6” total length. Width from 1” to 1-1/2” at a depth of 4”. This is important as many cars only allow a 4” insertion. This bit has retaining holes on both axes to accommodate all makes of door openers that use the 1-1/2” square drive.

Part #: 0808134A

**WRENCH, HOPPER HAMMER**
Hammer wrench to loosen hopper gates that have become stuck closed.

Part #: 0808155A  Weight: 7.7 lbs.
LOCOMOTIVE, CAR, PASSENGER

COTTER PIN REMOVER (SLIDE HAMMER)
80” long, hook tip slide hammer for removing cotter pins and securely lodged clips from hard to reach locations. Painted black.

Part #: 2310029A  Weight: 20.4 lbs.

PUNCH, COTTER PIN REMOVAL
This unique cotter pin remover tool was designed by IPS for removing cotter pins from hard to reach spots or to simplify the removal of stubborn pins. Available in 13", 16", and 60”.

Part #: 2310001A (13")  Weight: 1.6 lbs.
Part #: 2310001B (16")  Weight: 2 lbs.
Part #: 2310001C (60")  Weight: 8 lbs.

HANDHOLD STRAIGHTENING TOOL
This reliable maintenance tool is designed to straighten and bend handholds back into their correct position for safe and simple repair in the field or yard. 36” long handle for maximum leverage and knurled handle offers secure grip.

Part #: 2310046A  Weight: 25 lbs.

PRY BAR, BRAKE PIN REMOVAL, 29”
A 29” long, high-carbon steel bar designed for effective removal of locomotive brake pins.

Part #: 0923118A  Weight: 7.4 lbs.

PRY BAR, SHOE, 35”
A multi-use high-carbon steel prybar, primarily designed to free stuck shoes.

Part #: 2310057A  Weight: 6.23 lbs.

PRY BAR, BOTTOM GATE
Painted blue with red work-heads for extra visibility, this heavy-duty pry bar is used to loosen and move bottom gates.

Part #: 2310051A  Weight: 28.6 lbs.

HOOK, BRAKE SHOE
Brake shoe hook for safely removing brake shoes from underneath locomotive cars.

Part #: 0923182A  Weight: 1.5 lbs.

DRAW BAR ALIGNMENT TOOL
This special alignment bar enables a “Car Man” to realign draw bars that have been replaced or have been knocked out of alignment. 39” long knurled aluminum handle.

Part #: 2310038A  Weight: 8 lbs.

PUNCH, COTTER PIN REMOVAL
This unique cotter pin remover tool was designed by IPS for removing cotter pins from hard to reach spots or to simplify the removal of stubborn pins. Available in 13", 16", and 60”.

Part #: 2310001A (13")  Weight: 1.6 lbs.
Part #: 2310001B (16")  Weight: 2 lbs.
Part #: 2310001C (60")  Weight: 8 lbs.

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A 29” long, high-carbon steel bar designed for effective removal of locomotive brake pins.

Part #: 0923118A  Weight: 7.4 lbs.

PRY BAR, SHOE, 35”
A multi-use high-carbon steel prybar, primarily designed to free stuck shoes.

Part #: 2310057A  Weight: 6.23 lbs.

PRY BAR, BOTTOM GATE
Painted blue with red work-heads for extra visibility, this heavy-duty pry bar is used to loosen and move bottom gates.

Part #: 2310051A  Weight: 28.6 lbs.

HOOK, BRAKE SHOE
Brake shoe hook for safely removing brake shoes from underneath locomotive cars.

Part #: 0923182A  Weight: 1.5 lbs.

DRAW BAR ALIGNMENT TOOL
This special alignment bar enables a “Car Man” to realign draw bars that have been replaced or have been knocked out of alignment. 39” long knurled aluminum handle.

Part #: 2310038A  Weight: 8 lbs.

PUNCH, COTTER PIN REMOVAL
This unique cotter pin remover tool was designed by IPS for removing cotter pins from hard to reach spots or to simplify the removal of stubborn pins. Available in 13", 16", and 60”.

Part #: 2310001A (13")  Weight: 1.6 lbs.
Part #: 2310001B (16")  Weight: 2 lbs.
Part #: 2310001C (60")  Weight: 8 lbs.

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This reliable maintenance tool is designed to straighten and bend handholds back into their correct position for safe and simple repair in the field or yard. 36” long handle for maximum leverage and knurled handle offers secure grip.

Part #: 2310046A  Weight: 25 lbs.

PRY BAR, BRAKE PIN REMOVAL, 29”
A 29” long, high-carbon steel bar designed for effective removal of locomotive brake pins.

Part #: 0923118A  Weight: 7.4 lbs.

PRY BAR, SHOE, 35”
A multi-use high-carbon steel prybar, primarily designed to free stuck shoes.

Part #: 2310057A  Weight: 6.23 lbs.

PRY BAR, BOTTOM GATE
Painted blue with red work-heads for extra visibility, this heavy-duty pry bar is used to loosen and move bottom gates.

Part #: 2310051A  Weight: 28.6 lbs.

HOOK, BRAKE SHOE
Brake shoe hook for safely removing brake shoes from underneath locomotive cars.

Part #: 0923182A  Weight: 1.5 lbs.
BOX, SBU CARRIER
SBU storage boxes are an ergonomic solution to accommodating 3 different styles of SBU’s (sense and brake units) for attachment to the rear of a locomotive. Manufactured from heavy gauge powder coated steel for durability and long term performance.
Part #: 0923144A  Weight: 52 lbs.

BRACKET, LOCOMOTIVE KNUCKLE HOLDER
Locomotive knuckle holder bracket fabricated from molded steel, 12-1/2” wide x 12” high x 4” deep, painted black. (Second photo includes part # 0923145A-01.)
Part #: 0923145A  Weight: 20 lbs.

COLLECTOR RING REPAIR
IPS refurbishes damaged locomotive collector rings to new condition. A typical repair includes disassembly and cleaning, re-machining, inspection and replacement of damaged segments, replacement of hardware, re-assembly, and packaging. 9-1/2” diameter and 11” diameter available.
Part #: 8351020 (9-1/2” Diameter)  Weight: 35 lbs.
Part #: 8345866 (11” Diameter)  Weight: 84 lbs.

HOLDER, CREW PACK
A manufactured, welded storage unit for carrying crew packs or other small field supplies. Overall dimensions 9-3/4” x 7” x 4-1/2”, with two holes for mounting bolts. Powder coated black.
Part #: 0923154A  Weight: 8 lbs.

PIN, SLACK ADJUSTER KEEPER, 5/8” X 2-23/32”
5/8” diameter x 2-23/32” long slack adjuster keeper pin used on GM locomotives. Heat treated to 49 RC.
Part #: 2223154A  Weight: 0.3 lbs.

PIPE ASS’Y, SNOW BLASTER, S-CURVE
1/2” x 20” Schedule 80 s-curved pipe, case hardened to .040 deep, for delivering sand for locomotives.
Part #: 0923140A  Weight: 1.5 lbs.

BRACKET & CLAMP, SPEEDOMETER CABLE
This is a universal bracket for GM locomotives that clamps the speedo cable, holding it firmly in place.
Part #: 2223194A  Weight: 2.2 lbs.

PIN, KNUCKLE HOLDER BRACKET, 1-1/2” X 14-3/4”
1-1/2” diameter x 14-3/4” long locomotive knuckle holder bracket pin for GE locomotives. 3-1/2” diameter shoulder, pin comes complete with locking pivot bar and securing chain.
Part #: 0923145A-01  Weight: 9 lbs.

FUEL NOZZLE
IPS both sells and repairs Snyder 1720DS fuel nozzles. 2” id inlet, male end, RN ring.
Part #: 1720DS  Weight: 25 lbs.

HANGER, CAPTAIN HOOK
Also known as a “Pig Tail” hook, this 3-3/4” diameter steel coil is dipped in black rubber. Each unit has a 1” welded connector ring and is supplied with a 1/4” zinc plated threaded quick link.
Part #: 0923168A  Weight: 0.4 lbs.

HOOK & EYE LATCH
These plated hook & eye latches are designed for locomotive toilet door interiors.
Part #: 2223187A  Weight: 0.15 lbs.

PIPE, SAND, 30° BEND
1” x 16” Schedule 80 pipe with a 30° bend, case hardened to .040 deep, for delivering sand for locomotives.
Part #: 2223130A  Weight: 2.25 lbs
Pipe, Sand, 45°
Part #: 2223130B  Weight: 3.7 lbs.
Pipe, Sand, Curved
Part #: 2223131A  Weight: 2.32 lbs.
Pipe, Sand, w/ Washer
Part #: 2223130C  Weight: 4.4 lbs.
SAND CAR DISCHARGE Y-PIPE, SS
30” wide x 19-13/16” high stainless steel Y-Pipe used on sand cars. Rubber lined and with Victaulic seals at each port.
Part #: 0806138A Weight: 51.5 lbs.

SAND CAR CONNECTOR Y-PIPE
Connector Y-Pipe for sand cars with reduction channel for sand cars. Attaching end has a 9” od ring with 12 bolt slots, welded to a 5-9/16” od pipe that narrows to a 3-1/2” id pipe with a 5-9/16” od ring with four bolt holes.
Part #: 0806138C Weight: 42 lbs.

SAND CAR REDUCER Y-PIPE
Connector Y-Pipe for sand cars with reduction channel for sand cars. Attaching end has a 9” od ring with 12 bolt slots, welded to a 5-9/16” od pipe that narrows to a 3-1/2” id pipe with a 5-9/16” od ring with four bolt holes.
Part #: 0806138B Weight: 42 lbs.

SAND CAR VICTAULIC Y-PIPE
Victaulic Y-Pipe connector for sand cars. Attaching end has a 9” od ring with 12 bolt slots, welded to a 5-9/16” od pipe with a Victaulic ring groove.
Part #: 0806138D Weight: 30 lbs.

SAND TOWER Y-PIPE, 3”
3” id case hardened and hot dip galvanized Y-pipe for transferring sand in sand towers.
Part #: 0806089A Weight: 19 lbs.

T-PIPE, SAND HOPPER, STAINLESS STEEL
4-1/8” diameter x 11-1/2” long stainless steel pipe mounted on a 10” diameter cylinder with eight 1/2” x 3-1/2” hex cap bolts with locknuts.
Part #: 0806072B Weight: 18.75 lbs.

SAND CAR DISCHARGE, SS★
26” high x 27-1/2” wide rubber-lined stainless steel T-pipe for unloading sand cars. 3” id pipe with 6” od flanges at each end.
Part #: 0806138E Weight: 36 lbs.

SAND PIPE, “CANDY CANE”★
41” long, 1-1/8” id schedule 40 steel “Candy Cane” sand pipe, with 17-1/4” diameter 180° reinforced curve.
Part #: 0806135A Weight: 6 lbs.

COLLAR, RUBBER, 5”★
Rubber collar for stainless steel sand Y-pipes. Fits 5” od pipes.
Part #: 0808138R Weight: 4 lbs.

SIGHT GLASS, SAND CAR UNLOADING
4-1/2” diameter cast acrylic sight glass for monitoring sand car unloading. 12” long.
Part #: 0806073A Weight: 2 lbs.

PLATE, PISTON KEEPER
2-3/4” long x 1-1/16” wide x 3/16” thick. Two 3/8” placement holes @ 2” centers.
Part #: 2223201A Weight: 0.13 lbs.

PLATE, STOP
3-1/2” long x 2-1/2” wide x 3/16” steel stop plate used on the uncoupling lever assembly on GM locomotives.
Part #: 261683 Weight: 0.32 lbs.

ROD, UNCOUPLING, LOWER LH
Lefthand front lower uncoupling rod assembly for GM locomotives.
Part #: 261669 Weight: 12 lbs.
Rod, Uncoupling, Lower RH
Part #: 261652 Weight: 12 lbs.

FUNNEL, SAND
20” x 12” x 18” aluminum sand funnel for locomotives.
Part #: 0806145A Weight: 11.6 lbs.

T-PIPE, SAND CAR DISCHARGE, SS★
26” high x 27-1/2” wide rubber-lined stainless steel T-pipe for unloading sand cars. 3” id pipe with 6” od flanges at each end.
Part #: 0806138E Weight: 36 lbs.

NEW!
NEW!
NEW!
NEW!
<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
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<tbody>
<tr>
<td>0923121B</td>
<td>SUN VISOR ASS’Y</td>
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<td>261702</td>
<td>ROD, UNCOUPLING, UPPER LH</td>
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<tr>
<td>261690</td>
<td>ROD, UNCOUPLING, Upper RH</td>
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<td>103900</td>
<td>TOILET ASS’Y</td>
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<td>TOILET SEAT, BUMPER &amp; HINGES</td>
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<td>TOILET FLANGE SEAL</td>
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<td>33364</td>
<td>TOILET DEFLектор/BAFFLE, STRAIGHT</td>
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<td>0923143A</td>
<td>TOILET DEFLектор/BAFFLE, TAPERED</td>
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<tr>
<td>0923113B</td>
<td>SNOW PLOW (PILOT) C/W DOORS &amp; CRITTER DEFLECTORS</td>
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<td>0923146A-01</td>
<td>TOILET DEFLектор/BAFFLE INSTALLATION TOOL, STRAIGHT</td>
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<td>WRITING TABLE, CONDUCTOR’S</td>
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<td>LOCOMOTIVE COMPONENTS</td>
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<tr>
<td>261690</td>
<td>LOCOMOTIVE, CAR, PASSENGER</td>
<td>13.4 lbs.</td>
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</table>
SEAT ASS’Y, LOW BACK SWITCHER
Low back switcher seat with mid-back support complete with dual lever reclining function and adjustable arm rests. 9” double locking tracks and black industrial covering material. 28” tall back.
Part #: 2223500A

SEAT ASS’Y, ULTRA-LOW BACK SWITCHER
Ultra-low back switcher seat with low-back support complete with dual lever reclining function and adjustable arm rests. 9” double locking tracks and black industrial covering material. 23” tall back.
Part #: 2223501A

SEAT ADAPTER PLATE★
Seat adapter plate for “Switcher” seats 2223500A and 2223501A.
Part #: 2223502A Weight: 7.5 lbs.

ADAPTER HOUSING, MWX WHEEL
MWX wheel adapter housing for the slide sensor on Timken journal housings.
Part #: 326531 Weight: 25 lbs.

BAR, BALLAST CAR DUMP, SHORT
43” long, 1-1/4” diameter ballast car dump bar with 30 degree bend.
Part #: 2310049B Weight: 15 lbs.

BRACKET, CAR CARRIER, LH
Car carrier bracket designed to reinforce car structures for stacking.
Part #: 0806093A Weight: 13.5 lbs.
Bracket, Car Carrier, RH
Part #: 0806092A Weight: 13.5 lbs.

BUSHING, PASSENGER, 1-3/4”, RUBBERIZED
1-3/4” od x 1” long durable vulcanized duro-neoprene bushings mounted over 1-1/4” od, 1” id x 1” long steel bushing insert.
Part #: 404206 Weight: 0.15 lbs.

CHANNEL SPLICES
48” long x 3-1/4” wide x 1-1/4” deep steel channel splice for multi-level cars.
Part #: 4226112A Weight: 8.2 lbs.

CLAMP, CHEVRON RETAINING
3” wide x 2-1/2” high steel chevron cushion spring retaining clamp with one 7/16” hole. Used on express truck assemblies and passenger cars.
Part #: 0666103A Weight: 0.11 lbs.

CURTAIN HOOK
Curtain hook made from T-304 stainless steel and dipped in black rubber.
Part #: 338346 Weight: 0.03 lbs.
**ELBOW CATCH, CUPBOARD**
Cupboard elbow catch for holding the sink table open on Hep cars made of stainless steel.
Part #: 0666115A  Weight: 0.1 lbs.

**ELBOW CATCH, TOILET SEAT COVER**
Spring-hinged toilet seat cover catch elbow for toilet seats on passenger cars.
Part #: 438011  Weight: 0.07 lbs.

**HOLDER, VESTIBULE SAFETY BAR, LOWER**
Lower vestibule safety bar holder for passenger cars.
Part #: 0666127A  Weight: 0.7 lbs.

**HOSE, FLEXIBLE BRAKE, 17”, W/ BLEEDER VALVES**
This 17” flexible brake hose comes complete with glad-hands at each end and bleeder valves. Sometimes also known as a “Hose Bag”.
Part #: FBH-17B-IPS  Weight: 8.4 lbs.

**HOSE, FLEXIBLE BRAKE, 26-3/4”, OFFSET**
This 26-3/4” Flexible Brake Hose with 1-3/8” id comes complete with one glad-hand at a 15° offset at one end and a male threaded mount at the other. Variation of a device sometimes known as a “Hose Bag” (part # FBH-17B-IPS).
Part #: FBH-27-IPS  Weight: 12 lbs.
Gasket, Gladhand
Replacement rubber gasket also available.
Part #: FBH-G  Weight: 0.02 lbs.

**LEVER, FLOATING BRAKE, FREIGHTCAR**
1” thick x 3” x 15” alloy steel floating brake lever for box cars. Three 1-1/8” holes and one 29/32” hole. Variation of a device sometimes known as a “Hose Bag” (part # FBH-17B-IPS).
Part #: 0806037A  Weight: 11.14 lbs.

**LEVER, OPERATING, 70-1/2”**
70-1/2” long operating lever. 21-3/4” offset.
Part #: 0806088A  Weight: 26 lbs.

**PIN, FREIGHTCAR, 1-3/4” X 16”**
1-3/4” diameter x 16” long center pin for freightcars, with heavy chamfers on both ends.
Part #: B-50-C-256  Weight: 11 lbs.

**PLATFORM, DOOR ROLLER**
17-1/4” wide x 10-1/4” deep x 14-3/8” high door roller platform.
Part #: 0808154A  Weight: 33 lbs.
ROD, RELEASE, 53-1/8”
53-1/8” bare metal Release Rod (with rod eye). This rod comes in 2 parts.
Part #: 0808110A  Weight: 7.2 lbs.

ROD, MATTRESS, 22”
22” Mattress rod for passenger cars.
Part #: 461714  Weight: 0.5 lbs.
Rod, Mattress, 33”
Part #: 461718  Weight: 0.7 lbs.

ROLLER, DOOR & BEARING ASSEMBLY
3-1/2” od door roller manufactured from 4140 steel and heat treated to 46-48 RC. Roller mounted on a durable caged roller bearing assembly (7/8” id).
Part #: 4226106A  Weight: 1.85 lbs.

SHIM PLATE, FRICTION WEAR
A 1/16” steel plate designed for use as a friction wear plate on freight cars. Measures 7” x 9”.
Part #: 0806047A  Weight: 1 lb.

WEAR PLATE, BUCKEYE COLUMN
Manufactured from abrasion resistant steel, these durable plates measure 5-1/2” wide, 10” long x 3/8” thick with a 1-1/4” long leg.
Part #: 3999283  Weight: 6 lbs.

ROD, AB RELEASE, 72”
1/2” diameter 72” long A.B. release rod with 5/16” id welded rod eye.
Part #: 0808112A  Weight: 9.8 lbs.

ROLLER SHAFT, DOOR
A 7/8” roller shaft for car doors, made from heat-treated steel and fitted with a 1/4” grease nipple for long-term maintenance and wear.
Part #: 4226104A  Weight: 0.3 lbs.

SHIM, COUPLER WEAR PLATE, 3/8”
3” x 13” x 3/8” coupler wear plate shim.
Part #: 0806122A

Shim, Coupler Wear Plate, 5/16”
Part #: 0806121A

Shim, Coupler Wear Plate, 1/4”
Part #: 0806120A

SPRING, CART DIAPHRAGM
This conical, heavy-duty 5/16” cart diaphragm spring is used in the repair and maintenance of passenger car diaphragms.
Part #: 439214-IPS  Weight: 1.6 lbs.

The total area of contact between train wheels and rail is little longer than one silver dollar.
CARTS

CART, “BADGER” RAIL TRANSPORT W/O BRAKES
20,000 lbs. WLL “Badger” rail transport cart with 16” insulated wheels and draw bar lugs. 47-1/4” long x 64-1/2” deck with 60” wide pivoting support cradle on heavy-duty swivel rollers.
(For model with brakes use part # CBRT-20B-IPS).
Part #: CBRT-20-IPS  Weight: 1,890 lbs.

CART, “BADGER” RAIL TRANSPORT W/BRAKES
Comes with service/parking air brakes.
Part #: CBRT-20B-IPS  Weight: 1,931 lbs.

CART, FLATBED, 5-TON, WOOD DECK
Flatbed cart with wooden deck and 5-ton capacity. Four 28” demountable pressed wheels.
Part #: CFB-5W-IPS

CART, HEAVY-DUTY UTILITY
This IPS Heavy-Duty Utility Cart has a 66” wide x 72” long checker-plate deck (84” overall length). Cart has six 3-1/2” “D” rings, draw bar lugs, and 10” diameter steel alloy wheels. 10,000 lbs. capacity, painted John Deere yellow.
Part #: HDUC-IPS  Weight: 1200 lbs.

CART, LIGHTWEIGHT UTILITY
One of the lightest carts available from IPS, the Lightweight Utility Cart is one of the great answers to rail maintenance and utility. With a 43-3/4” wide x 41” long expanded metal deck, this cart boasts a 1,000 lbs. weight load limit, running easily on 5” aluminum wheels with a 30” wheel base. Two D-Rings are provided, and the lightweight design allows this part to be positioned on, and removed from tracks by hand. 62-1/2” overall width and 7-5/16” height above rail.
Part #: CLU-IPS  Weight: 170 lbs.

CART, LIGHTWEIGHT UTILITY, ALUMINUM
Lightweight utility cart with aluminum frame and 5” cast aluminum wheels. Six 1/4” D-rings on a 41” long x 53-3/4” wide expanded metal deck. WLL 1,000 lbs. 63-3/16” overall width, for 56-1/2” gauge track.
Part #: CLU-AL-IPS  Weight: 82 lbs.

CART, JIB CRANE
IPS manufactures engineered Jib Crane Carts with certified working load limits to allow for a wide range of on-track work. IPS carts can be supplied with insulated or non-insulated wheels and braking systems. IPS specializes in manufacturing customized carts with a wide range of load capacities.
Part #: CJC-IPS  Weight: 1200 lbs.
RAIL BUGGY, LIGHTWEIGHT COLLAPSIBLE, W/ 5” OR 8” WHEELS

This conveniently collapsible rail buggy boasts a 5,000 lbs. capacity. 46” x 45”, this cart is available with 5” diameter (CRB-IPS) or 8” diameter (CRB-IPS-8) aluminum wheels, with a single push rail. Folds up for efficient storage and transport.

- Part #: CRB-IPS (5”)  Weight: 175 lbs.
- Part #: CRB-IPS-8 (8”)  Weight: 180 lbs.

RAIL BUGGY, SUPER-LIGHT COLLAPSIBLE

This collapsible aluminum rail buggy boasts a 5,000 lbs. capacity. 50” long x 63-1/2” wide, it runs on 5” diameter insulated aluminum wheels for 56-1/2” gauge rail. The cart can be moved from either end with the moveable push rail and the entire assembly folds up for efficient storage and transport. Parking brakes at both ends provide safety during loading and unloading.

- Part #: CRB-SL-IPS  Weight: 98 lbs.

CART, RAIL PUSH, 16” WHEEL

Push cart complete with steel deck. 10,000 pounds capacity with four 16” wheels. Deck measures 67” wide x 85” long; 96” overall cart length, and 20” deck height (above rail). Also available in 10” wheel model.

- Part #: PC-10S  Weight: 1200 lbs.
- Part #: PC-10SM (With brakes)  Weight: 1200 lbs.
- Part #: PC-1010 (10” Wheel)  Weight: 1200 lbs.

CART, RAIL W/ REMOVABLE SIDES & EQUIPMENT CARTS

IPS designs and manufactures customized rail carts complete with checker plate decking, wheel assemblies, oscillating axles, pintle hitches, “D” Rings, braking systems with glad hands, and safety yellow paint finish. Wheel assemblies can be supplied with or without insulated wheels. Designed with structural steel frames to accommodate a wide range of loading requirements, these carts are fabricated for heavy-duty railroad use, and will provide long-lasting performance.

- Part #: CRS-IPS  Weight: 7,309 lbs.

Cart, Rail, w/ Removable Side Enclosure

- Part #: CRS2-IPS  Weight: 4,276 lbs.
CARTS

CART, THUNDERBOLTER BUGGY
ThunderBolter buggy/cart designed to carry Geismar and Stumec bolter machines as they install Lewis Bolts.

Part #: CTBB-IPS  Weight: 121 lbs.

Roller Ass’y, Thunderbolter Buggy
Replaceable roller assemblies for the traversing support frame on thunderbolter buggy carts.

Part #: CTBB-IPS-01  Weight: 0.1 lbs.

CART, TOILET
IPS designs and manufactures carts for portable toilets. Single or double toilet carts available. Railings and diamond grip steps provided for maximum safety, as well as options for checker plate or expanded metal deck. A lifting lug on the top of larger carts allows for quick removal and placement with an overhead crane.

Cart, Single Toilet  Part #: CWC-1-IPS
Cart, Double Toilet  Part #: CWC-2-IPS

CART, TOOL SHED, LARGE, 10” WHEEL
This larger volume tool storage cart is designed to carry tools and equipment in a securely locked unit, with internal shelving for portable tools or equipment that you may want stored securely on-site, as well as external tool platform and ladder for roof access. Smaller wheels (10”) than our CTS-IPS model, but with greater storage capacity.

Part #: CTS-10L-IPS  Weight: 3,858 lbs.

CART, WAYSIDE RAIL
IPS manufactures rail carts for a wide range of field work. This Wayside Cart has stake pockets designed for removable stakes and safety railings and is ideal for transporting portable toilets. It is manufactured with access stairs, air brakes on all four wheels, and one oscillating axle. Supplied with a safety yellow paint finish. Cart measures 8’ wide x 16’ long with 14” diameter heat-treated, cast alloy steel wheels.

Part #: CRW-IPS
IPS supplies a series of heavy-duty draw bars for push carts, supplied complete with air lines and safety chain, glad hands and valves. Safety yellow paint finish. Part numbers below are for 4-24 foot lengths, but custom lengths and capacities are available.

---

**DRAW BAR, 6 FOOT**

Part #: DB-06-IPS (6 Foot)  Weight: 55 lbs.
Part #: DB-08-IPS (8 Foot)  Weight: 86 lbs.
Part #: DB-10-IPS (10 Foot)  Weight: 108 lbs.
Part #: DB-12-IPS (12 Foot)  Weight: 118 lbs.
Part #: DB-16-IPS (16 Foot)  Weight: 163 lbs.
Part #: DB-24-IPS (24 Foot)  Weight: 275 lbs.

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**PIN, HITCH, HEAVY-DUTY**

Heavy duty hitch pins for rails carts.

Part #: 2309001B  Weight: 7.5 lbs.

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**PIN, LOCKABLE DRAW PIN**

Lockable draw bar pin, 1-5/8” diameter and 6-1/2” long, with hand ring and heavy-duty lockable washer.

Part #: 2309001C  Weight: 6 lbs.

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**PIN, SAFETY HITCH**

A heavy-duty hitch-pin designed for rail pushcarts. The combination handle and 1-1/8” diameter retainer pin is easy to operate and highly resistant to disengagement. Includes 10” long safety chain and red paint finish.

Part #: 2309001A  Weight: 6 lbs.

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**WINCH ADAPTOR, TOW BAR**

Winch adaptor for tow bars used in locomotive shops. Comes complete with shackle and pin.

Part #: 0808116A  Weight: 15 lbs.

---

By 1960, diesel engines had replaced 99% of the steam locomotives in the US.
IPS manufactures and rebuilds a wide range of insulated and non-insulated wheels and wheel axle assemblies, including bearings and bushings. A turntable wheel and axle assembly is shown here.

**WHEELS & WHEEL REBUILDING**

**WHEELS, ASSEMBLIES, AND REBUILDS**

IPS manufactures and rebuilds a wide range of insulated and non-insulated wheels and wheel axle assemblies, including bearings and bushings. A turntable wheel and axle assembly is shown here.

---

**WHEEL, TAMPER, 6”, 2-PART**
Two-part 6” wheel for the tamper Mk IV shadowboard and receiver buggies. This item is identical to A-0219-WAB; both are composed of part #s 0-1202047-0-01-IPS & 0-1202018-0-01-IPS

- Part #: A-0219-WAA  Weight: 35 lbs.
- Part #: A-0219-WAB  Weight: 35 lbs.

**Wheel Flange, 6”, Shadowboard**
Part #: 0-1202048-0-01-IPS

**Wheel Roller, 6”, Shadowboard**
Part #: 0-1202047-0-01-IPS

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**WHEEL, RAIL, 10”**
10” diameter machined wheels manufactured from high-strength alloy steel and hardened for long term performance. Ideal for push carts.

- Part #: WA-10  Weight: 91.5 lbs.

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**WHEEL & BEARING, HI-RAIL, 10”**
10” diameter Hi-Rail wheel assembly for various applications. Includes both wheel and bearing kit.

- Part #: WA-10HR  Weight: 50 lbs.

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**WHEEL, BUGGY, 16”**
16” steel flanged wheel for rail buggies.

- Part #: 32294  Weight: 120 lbs.

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**WHEEL, SPIKER, 16”**
16” diameter, high-strength, heat-treated alloy steel wheels with bolt flange for CX spiker machines.

- Part #: 86969201-IPS  Weight: 133 lbs.

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**WHEEL, ALUMINUM, 8”**
8” diameter aluminum wheel with bearings. Also used in rail carts CR8-IPS-8.

- Part #: TS-12A  Weight: 12.2 lbs.

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**WHEEL, BUGGY, 10”, ALUMINUM**
This is a 10” diameter aluminum rail wheel used on projector and pusher buggies. Comes with installed bearings and snap ring.

- Part #: X-685831  Weight: 14 lbs.

**Bearing, Wheel, Tamper Buggy**
Part #: L-40213

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**WHEEL, DEMOUNTABLE PRESSED, 16”**
Pressed demountable wheels for motor cart and push carts. 16” diameter, 5/16” thick steel, with eight (8) mounting lugs @ 6-3/8” centres around a centre 4-1/2” hole. Painted black.

- Part #: M-11404-K1  Weight: 37 lbs.

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**WHEEL, RAIL, HEAT-TREATED, 16”**
A heavy-duty, 16” diameter wheel with a tapered bore; high-strength, heat-treated alloy steel.

- Part #: WA-16  Weight: 167 lbs.

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**WHEEL, SPEEDER, 17”, 5-HOLE MOUNT**
17” diameter running surface alloy steel wheel designed for speeder machines.

- Part #: DW-492000-001B  Weight: 129 lbs.
WHEELS & WHEEL REBUILDING

WHEEL, SPEEDSWING, 20” INSULATED
20” diameter insulated wheel for speedswing machines with 16 mounting holes.
Part #: B-8572    Weight: 184 lbs.

WHEEL, BALLAST REGULATOR, 24”, 6-HOLE
24” diameter running surface wheel for the ballast regulator machines. Manufactured to AREMA specifications, with AAR201 grade C cast steel to OEM specifications and hardness. These ballast regulator wheels come in the original, 6-hole mount (735749-06) format; for the newer, 10-hole mount variant use # 735749-10.
Part #: 735749-06    Weight: 242 lbs.

WHEEL, BALLAST REGULATOR, 24”, 12-HOLE
New 24” diameter cast and precision machined high-strength alloy steel wheels. 12-hole bolt pattern, designed for use on ballast regulator machines.
Part #: E-7211-IPS    Weight: 467 lbs.

WHEEL, BALLAST REGULATOR, 28”, 10-HOLE
28” diameter running surface wheel for ballast regulator machines. Manufactured to AREMA specifications, with AAR201 grade C cast steel to OEM specifications and hardness. Wheel available in non-insulated (9003336) or insulated format (9006634).
Part #: 9003336 (Non-Insulated)    Weight: 330 lbs.
Part #: 9006634 (Insulated)    Weight: 428 lbs.

WHEEL, BALLAST REGULATOR, 28”, 6-HOLE
24” wheel, 6 holes, for Ballast Regulator (such as the Nordco M7 Ballast Regulator).
Part #: 86969128    Weight: 211 lbs.

WHEEL, BALLAST REGULATOR, 24”, 12-HOLE
24” diameter running surface wheel for the ballast regulator machines. Manufactured to AREMA specifications, with AAR201 grade C cast steel to OEM specifications and hardness. These ballast regulator wheels come in the new, 10-hole mount (735749-10); for the original, 6-hole mount use # 735749-06.
Part #: 735749-10    Weight: 305 lbs.

WHEEL, BALLAST REGULATOR, 28”, 10-HOLE COUNTERSUNK
28” diameter running surface wheel for Kershaw Ballast Regulator machines. The 10 holes are countersunk, and in addition there are 2 threaded holes for use in removing the wheels for repair. Manufactured to AREMA specifications, with AAR201 grade C cast steel to OEM specifications and hardness.
Part #: 9003336B    Weight: 330 lbs.
IPS supplies components for CX Spiker wheels from the bushings and insulators to full wheel and axle assemblies.

### AXLE ASS’Y, DEMOUNTABLE, 3-7/16”, INSULATED

Full demountable axle assembly for CX Spikers; this is for the 3-7/16” diameter insulated axle.

- **Part #:** 90410913
- **Weight:** 587 lbs.

### WHEEL ASS’Y, 3”

Precision machined wheel assembly, 3” diameter running surface, mounted on a bronze bushing bringing the id to 1-1/8”, 3-3/4” wide.

- **Part #:** Y-683655
- **Weight:** 8 lbs.

### WHEEL AXLE ASS’Y, 5”, LIGHTWEIGHT UTILITY

Replaceable wheel axle assembly for the Lightweight Utility Cart. 56-1/2” gauge, 1-1/4” diameter axle complete with pillow block bearings and durable, lightweight 5” aluminum wheels. Weight load limit of 1,200 lbs. per axle.

- **Part #:** WAA-05-CLUS-IPS
- **Weight:** 35 lbs.

### WHEEL ASS’Y, PROJECTOR BUGGY, 10”

Full wheel assembly for projector buggies; includes 10” wheels, axle, and bearings. Wheel and axle are solid aluminum with a WLL of 1,250 lbs.

- **Part #:** 0-2201452-0-01
- **Weight:** 17.6 lbs.

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**CX SPIKER WHEEL ASSEMBLIES**

**Item**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Wheel Hub</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Insulator Disc, 16” Wheel, w/Flat</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>Insulator, Wheel Hub, 16” Wheel</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Insulator, Stud Bushing, 16” Wheel</td>
<td>6</td>
</tr>
<tr>
<td>5</td>
<td>Wheel, Spiker, 16”</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>Retainer Disc, 16” Wheel, w/Flat</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>Insulation By-pass</td>
<td>1</td>
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<tr>
<td>8</td>
<td>3/8” Lock Washer</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>3/8” NC x 1/2” Gr.5 Bolt</td>
<td>1</td>
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<tr>
<td>10</td>
<td>1/4” Lock Washer</td>
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<tr>
<td>11</td>
<td>1/4” NC x 7/16” Gr.5 Bolt</td>
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<tr>
<td>12</td>
<td>Nut, Wheel, 1-1/8”</td>
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</tr>
<tr>
<td>13</td>
<td>Washer, Wheel, 4-3/4”</td>
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</tr>
<tr>
<td>14</td>
<td>Nut, Slotted Hex, 2-3/4”</td>
<td>1</td>
</tr>
</tbody>
</table>

**AXLE ASS’Y, ALUMINUM**

Heat-treated aluminum wheel assembly. These wheels have a 1,250 lbs. load capacity (per wheel) and are ideal for use on light maintenance of way carts where ease of handling is a priority. 1” diameter axle conforms to AREMA specifications.

- **Wheel Ass’y, 5”, Aluminum**
  - **Part #:** WAA-05-TS-12
  - **Weight:** 12 lbs.

- **Wheel Axle Ass’y, 8”, Aluminum**
  - **Part #:** WAA-08-TS-12
  - **Weight:** 17 lbs.
**WHEEL AXLE ASS’Y, 10”**
10” diameter wheel assembly complete with a 2-3/16” diameter axle, insulated or non-insulated wheels, and pillow block bearings. 56-1/2” rail gauge, 2.5 ton WLL.

- Part #: WAA-10-IPS  
  Weight: 234 lbs.
- Wheel Axle Ass’y, 10”, 2.5 Ton, Insulated  
  Part #: WAA-10I-IPS
- Axle, 10”, 2-3/16”  
  Part #: WAA-10-IPS-A
- Bearing, Wheel Ass’y, 10”  
  Part #: WAA-10-IPS-BRG
- Washer, PC-10I, 3-1/2”, Phenolic  
  Part #: WAA-10I-IPS-02
- Insulator, Phenolic Sleeve, 3”  
  Part #: WAA-10I-IPS-01

**WHEEL AXLE ASS’Y, 16”, 2.5 TON**
16” diameter heavy-duty wheel assemblies complete with 2” axes, insulated or non-insulated wheels, heavy-duty pillow block bearings. 2.5 ton working load limit.

- Wheel Axle Ass’y, 16”, 2.5 Ton, non-insulated  
  Part #: WAA-16-N-IPS  
  Weight: 235 lbs.
- Wheel Axle Ass’y, 16”, 2.5 Ton, Insulated  
  Part #: WAA-16-IPS  
  Weight: 235 lbs.
- Axle, Wheel Ass’y, 1-15/16”  
  Part #: WAA-16-N-IPS-A  
  Weight: 52 lbs.

**WHEEL AXLE ASS’Y, 16”, 6 TON**
16” diameter heavy-duty wheel assemblies complete with 2-7/16” axes, heavy-duty pillow block bearings. 6-Ton working load limit.

- Part #: WAA-16-IPS-N (Non-Insulated)  
  Weight: 451 lbs.
- Part #: WAA-16-IPS-I (Insulated)  
  Weight: 451 lbs.

**WHEEL AXLE ASS’Y, 10”, 7.5-TON**
10” diameter wheel assembly complete with 2-15/16” diameter axles, insulated or non-insulated wheels, and pillow block bearings. 56-1/2” rail gauge, 7.5-Ton WLL.

- Part #: WAA-1007-IPS
- Wheel Axle Ass’y, 10”, 7.5-ton, Insulated  
  Part #: WAA-1007I-IPS
- Axle, Wheel Ass’y, 10”, 2-15/16”  
  Part #: WAA-1007-IPS-A
- Bearing, Wheel Ass’y, 10”, 7.5-ton  
  Part #: WAA-1007-IPS-BRG
- Insulator, Phenolic Sleeve, 3-5/8”  
  Part #: WAA-1007I-IPS-01
- Washer, 4”, Phenolic  
  Part #: WAA-1007I-IPS-02

**WHEEL AXLE ASS’Y, 16”, 10 TON**
16” diameter heavy-duty wheel assemblies complete with 3” axes, non-insulated wheels, and pillow block bearings. 10-Ton working load limit.

- Part #: WAA-16-NH-IPS  
  Weight: 400 lbs.

**WHEEL AXLE ASS’Y, 16”, 6 TON (Non-Insulated)**

**WHEEL AXLE ASS’Y, 16”, 6 TON (Insulated)**

**WHEEL AXLE ASS’Y, 14”**
Wheel assemblies complete with 3” diameter idler axe set for 56-1/2” track gauge, heavy-duty tapered roller bearings, and two 4-bolt axle mounting boxes. 8 or 15-Ton working load limit.

- Wheel Axle Ass’y, 14”, 8 Ton  
  Part #: WAA-1408-IPS  
  Weight: 425 lbs.
- Wheel Axle Ass’y, 14”, 15 Ton, non-insulated  
  Part #: WAA-1415-IPS  
  Weight: 660 lbs.
- Wheel Axle Ass’y, 14”, 15-Ton, Insulated  
  Part #: WAA-1415-IPS-I  
  Weight: 660 lbs.

**WHEEL SET AXLE ANCHORS**
7/8” diameter x8” wide x 39” or 48” long steel wheel set anchor assemblies for interlocking wheel sets during transport. Assemblies consist of the short (lower) and long (upper) interlocks composed of a U-Bolt with Spiral padding, a clamp bar with bumper pad, and two 7/8” hex nuts.

- Wheel Set Axle Anchor, Small  
  Part #: 2310097A  
  Weight: 23 lbs.
- Wheel Set Axle Anchor, Long  
  Part #: 2310097B  
  Weight: 26.3 lbs.
- Clamp Bar, Wheel Set Anchor  
  Part #: 2310097C  
  Weight: 8 lbs.
- Bumper Pad, Wheel Set Anchor  
  Part #: 2310097D  
  Weight: 0.25 lbs.
### INSULATOR BUSHING SET, 28” WHEEL
This is a full bushing set for 28” diameter, 10-hole ballast regulator wheels to make the wheel insulated. This set is composed of:

- 1 - 736156 Inside Insulator Bushing
- 1 - 201677 Main Wheel Bore Insulator
- 10 - 101375 Wheel Stud Insulator Bushings &
- 1 - 715286 Outside Insulator Bushing

- **Part #: 9006634-set**

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### AXLE, TIE CRANE, 3”
3” diameter outer drive axle for Pyke Tie Cranes. 67-7/8” long, and narrowing to 2” diameter (threaded) by locking ends.

- **Part #: C-21161**
- **Weight:** 120 lbs.

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### INSULATOR KIT, SPEEDSWING, 8-HOLE
Insulator kit for Pettibone Speedswing wheel with 8-hole mounts. Consists of two L1-7651 (Insulator Disc, Speedswing, 8-hole) and eight L1-7802 (Bushing, Speedswing, 1”, Phenolic).

- **Part #: L1-7651-Kit**

---

### INSULATOR DISC, SPEEDSWING, 8-HOLE MODIFIED
Insulator ring for Pettibone Speedwing wheel hubs; this model has been modified to increase the mounting to 16 holes.

- **Part #: L1-7651-PNR**
- **Weight:** 0.01 lbs.

---

### HUB, BALLAST REGULATOR WHEEL
High strength alloy steel wheel hub for ballast regulators. Available in insulated (B-16455) and non-insulated (B-16456) styles. 12 holes per hub.

- **Part #: B-16455 (Insulated)**
- **Part #: B-16456 (Non-Insulated)**
- **Weight:** 38 lbs.

---

### INSULATOR DISC, SPEEDSWING, 8-HOLE
Insulator ring for Pettibone Speedswing wheel hubs; this model has the standard 8-hole mount.

- **Part #: L1-7651**
- **Weight:** 0.01 lbs.

---

### BUSHING, SPEEDSWING, 1”, PHENOLIC
1” od, 3/4” id x 11/16” long phenolic insulator bushing for speedswing machines.

- **Part #: L1-7802**
- **Weight:** 0.01 lbs.
WHEELS & WHEEL REBUILDING

INSULATOR, HUB BUSHING, PHENOLIC
Phenolic insulator ring for wheel hubs, approximately 6-5/8” od X 6-1/4” id X .700” long, for ballast regulators.
Part #: 10.1373-A  Weight: 0.1 lbs.

INSULATOR, HUB RTAINER DISC
Insulator ring for hub retainers on ballast regulators.
Part #: 10.1126  Weight: 0.1 lbs.

INSULATOR, WHEEL DISC, 6-HOLE
11-1/4” diameter wheel insulator disc for ballast regulator machines. 6-Hole mount.
Part #: 10.1374  Weight: 0.1 lbs.

INSULATOR, WHEEL DISC, 12-HOLE
A 10-3/8” od, 6-1/2” id insulator ring for wheel hubs; this model has a 12-hole mount.
Part #: A-16457  Weight: 0.1 lbs.

PLATE, 28” WHEEL, STEEL
13-1/2” od, 8-11/16” id x 1/4” steel spacer for 28” Ballast Regulator wheels. 10 hole mount.
Part #: 9001706  Weight: 5.6 lbs.

SPACER, PHENOLIC, 8” X 10”
8” x 10” Phenolic insulating spacer for pillow block bearings on WAA-1415-IPS axle. Four 13/16” mounting holes.
Part #: 0808147A  Weight: 0.4 lbs.

WHEEL AXLE
A non-insulated wheel axle for Nordco-Tripp machines.
Part #: 54261725  Weight: 2 lbs.

WEB: railwayparts.com
**BRAKE COMPONENTS**

**BRAKE SHOE, TIE CART, 10”, ASTRO**
Manufactured brake shoe for 10” wheels on Astro tie carts.
Part #: 15-1088  Weight: 2.6 lbs.

**BRAKE SHOE, TIE CART, 10”, GEISMAR**
Manufactured brake shoe for 10” wheels on Geismar tie carts.
Part #: TD-20BR8  Weight: 2.6 lbs.

**BRAKE SHOE, 10”-14”, BASE FORM**
Brake shoe for either 10” or 14” wheels for rail carts. This is a basic foundation shoe, cast from ductile iron 80-55-06. Further customization available.
Part #: WA-10-BS  Weight: 9 lbs.

**BRAKE SHOE, 10”-16”**
This is a universal brake shoe for wheels of a 10” to 16” diameter.
Part #: WA-1016-BS  Weight: 12 lbs.

**BRAKE SHOE, 16”, SPIKER/ANCHOR APPLICATOR**
Cast brake shoe designed for the B spike and anchor machine Model E dual spike puller.
Part #: 7090-0072  Weight: 7.4 lbs.

**BRAKE SHOE, 16”, SUPER CX**
8” x 3.56” wide brake shoe for 16” wheels, designed for spiker machines. Model CX.
Part #: 7090-0075  Weight: 3.25 lbs.

**BRAKE SHOE, 24” WHEEL**
Brake shoe for the 24”-28” diameter wheels of cleaning carts.
Part #: WA-24-BS

**BRAKE SHOE HEAD, SUPER C SPIKER**
Manufactured brake shoe head for spiker machines.
Part #: 2180-0097  Weight: 5 lbs.

**BRAKE SHOE, 24”, 46-1**
Brake shoe for ballast regulator machines.
Part #: 38551  Weight: 9.6 lbs.

**BRAKE SHOE, 24”, BURRO CRANE**
Cast brake shoe designed for 24” diameter Burro crane wheels.

**BRAKE SHOE, 24”, TAMPER**
Brake shoe for tamper machines. 12” long x 3.31” wide with a 1-1/2” thick brake pad. Mk IV.
Part #: V472  Weight: 4 lbs.

**BRAKE SHOE, 24”, TAMPER, W/O TABS**
Brake shoe for the Mark IV HD Harsco Tamper, without tabs. 12” long x 3.31” wide with a 1-1/4” thick brake pad.
Part #: V271  Weight: 3.75 lbs.
**BRAKE SHOE, 24”, TAMPER**
Cast brake shoe designed for tamper machines with 24” diameter wheels. Mk II.
Part #: Y-754559-001  Weight: 18 lbs.

**BRAKE SHOE, 24”, TIE INSERTER**
8” long x 3.56” wide x 1-3/4” thick brake shoe with a 12” radius for 24” wheels on Tripp tie inserters and Knox-Kershaw ballast regulators. V237.
Part #: 7090-0080  Weight: 3.9 lbs.

**BRAKE SHOE, 28”, KBR925**
Brake shoe for the 28” diameter wheels of ballast regulator machines like the KBR925.
Part #: 9001365  Weight: 7.6 lbs.

**BRAKE SHOE, 33”, CRANE**
Flanged style brake shoe for a locomotive crane.
Part #: 810901  Weight: 47 lbs.

**LEVER, BRAKE ADJUSTMENT**
9-1/4” overall length, 7” x 1” NF thread brake adjustment lever for tamper machines.
Part #: 223021-1  Weight: 3 lbs.

**PIN, BRAKE SHOE LOCK, 3/4” X 2-7/16”**
3/4” diameter x 2-7/16” long brake shoe lock pin.
Part #: R-2940R-IPS  Weight: 0.3 lbs.

**PIN, BRAKE SHOE, 3/4” X 4-1/2”**
3/4” diameter x 4-1/2” long C1018 steel brake shoe pin for ballast regulator machines.
Part #: A-25389  Weight: 0.4 lbs.

**PIN, BRAKE SHOE RETAINER**
6-1/2” long brake shoe retaining pin for brake shoes on the Mk IV HD tamper.
Part #: 112482-1  Weight: 0.5 lbs.

**PIN, BRAKE SHOE RETAINER**
Brake shoe retainer pin for tamper brake shoes, Mk IV.
Part #: SE5625  Weight: 0.66 lbs.

**BRAKE SHOE, TIE CRANE**
Tie crane brake shoe with offset welded lug for Knox Kershaw Tie Cranes.
Part #: 9050503  Weight: 7.6 lbs.

**BRAKE SHOE, 28”, TIE CHANGER**
Manufactured brake shoe for tie changer machines.
Part #: 78011-120-4  Weight: 4.6 lbs.

**PIN, BRAKE SHOE RETAINING**
Brake shoe retainer pin for the Mk IV ballast regulator.
Part #: 9032753  Weight: 0.5 lbs.
IPS specializes in the design and installation of flume and culvert lining structures, as well as relining, repair, and reinforcement of aging concrete and steel bridging structures.

**Beam, Pallet Lifting**
48” long pallet lifter bar made from 2” x 2” - 3/16” HSS steel with 3” collars at each end. Painted safety yellow.
Part #: 2310143A Weight: 20 lbs.

**Blade, Rail Breaker**
A high-strength blade designed specifically for breaking rail. Machined from 1” thick S-7 tool steel, 4-1/4” x 23-1/2”.
Part #: RBB-24 Weight: 75 lbs.

**Box, Geismar Equipment**
3/16” steel reinforced frame, four lifting lugs, side ventilation, power-coated creased-aluminum waterproof lid with locking system, handles & heavy duty hinges. Comes painted to your specifications with a lock box and frame feet to keep your equipment off the ground and a 3/16” x 6’, 4-leg bridle sling with hooks & safety latches; tag rated for 10,000 lbs.
Part #: 2310145A

**Cart, Brake Shoe Trolley**
Durable lightweight pushcart for the shop and yard, composed of a rugged steel frame with two front swivel casters and two fixed casters.
Part #: CBST-IPS

**Box, Truck Bed Tool Storage**
This lockable tool storage box is designed for truck beds and constructed to be bolted in place for additional security. Box measures 41-3/4” wide x 23” deep x 17-3/4” high. 11-1/2” cubic feet available for securing tools, materials, kits or safety equipment in the field and on the road. Painted black. Customizable upon request.
Part #: 2310148A Weight: 160 lbs.

**Concrete Tie Spreader Assy**
12’ long x 4” 6” wide heavy duty concrete tie spreader designed and engineer certified for the placement of concrete ties. (Wood ties shown in photo for context.) Supplied complete with updated tie cables for pandrol clip plates, along with a 4-legged bridle lifting assembly. 6,200 lbs. maximum working load limit.
Part #: CTSB-IPS Weight: 800 lbs.
CONCRETE TIE SPREADER SLING, 17-1/2’ TIE★

Hook harness for lifting single concrete ties via e-clip gauge plates, for 17-1/2’ concrete ties.
Part #: CTSL-IPS

DOLLY, LOCOMOTIVE ELECTRIC CABLE★

Heavy-duty dolly designed to store and move locomotive electric cables safely without damage.
Part #: DLEC-IPS
Weight: 94 lbs.

DOLLY, RAIL, 60 KG★

Rail dolly (operated in pairs) designed to carry one or two 60 Kg gauge rails on heavy-duty 5” diameter wheels.
Part #: 2309055A
Weight: 57 lbs.

HYDRAULIC BOOM EXTENSION

IPS manufactures hydraulic boom extensions for rail cranes that allow for greater extensions, which are advantageous on curves. 3’ maximum extension.
Part #: HBX-IPS

JACK STAND, 60,000 LBS.

Heavy-duty mobile jack stand designed with 4 wheels and braking device for safety. Painted safety yellow.
Part #: 0808132A
Weight: 324 lbs.

HYDRAULIC WHEEL SET LIFTER

IPS manufactures and designs hydraulic wheel set lifters that attach quickly to forklifts. Engineer certified, magnetic particle tested and proof tested prior to shipping.
Part #: HWL-IPS

KUBOTA TOOL STORAGE BOX

This robust deck organizer is manufactured from high grade steel and designed to take the daily abuse that field work can deal while keeping rail parts accessible and orderly. This particular box is designed for Kubota Utility Vehicles and is another example of IPS custom innovation.
Part #: 0923172A
LIFT PLATFORM, FORKLIFT, 2,000 LBS. WLL

96" x 64" forklift man-lift platform with 3 sides and removable safety chain. 2,000 lbs. WLL engineer certified and stamped with lanyard attachments. Painted safety yellow.

Part #: 0923192A  Weight: 1.262 lbs.

PINS, BRIDGE SIGNAL, SHORT & LONG

Rail pins used to trip the bridge signals to indicate that the apron is fully closed and locked. 13" or 15-3/8" long.

Pin, Bridge Signal, Short
Part #: 2310014A  Weight: 3.3 lbs.

Pin, Rail, Long
Part #: 2310014B  Weight: 3.6 lbs.

Guide Tube Assy, Signal Pin, Short
Part #: 2310014A-01

Guide Tube Assy, Signal Pin, Long
Part #: 2310014B-01

RAIL SPREADER BAR

IPS manufactures a wide range of spreader bars for handling rail. A spreader bar that attaches quickly to a forklift is shown. Engineer certified, magnetic particle tested and proof loaded prior to shipping.

RAIL SWEEPS, HI-RAIL

Steel-mounted rubber rail sweeps for F350 and F550 Hi-rail trucks.

Rail Sweep, R290 Rail Gear, Driver
Part #: R-21102-D  Weight: 2.5 lbs.

Rail Sweep, R290 Rail Gear, Passenger
Part #: R-21102-P  Weight: 2.5 lbs.

Rail Sweep, R460 Rail Gear, Driver
Part #: R-20120-D  Weight: 2.75 lbs.

Rail Sweep, R460 Rail Gear, Passenger
Part #: R-20120-P  Weight: 2.75 lbs.

PAD, HYDRAULIC LIFT, SET

34" wide x 49" long x 5-1/8" high heavy duty hydraulic lift pad for outrigger feet. Designed with forklift slots at both sides for ease of use, these lift pads have a replaceable wood channel down the centre and sits on 6-1/4 lbs. expanded steel grating for greater stability. This part number is for one unit only.

Part #: 0923186A  Weight: 517 lbs.

PLATFORM, ADJUSTABLE CROSSOVER

Adjustable crossover platform for maintenance platforms. Made from high-grade aluminum this crossover platform adjusts to span 20" to 35" gaps safely in locomotive maintenance facilities. 400 lbs. WLL.

Part #: 0923179A  Weight: 27 lbs.

Platform, Adjustable Crossover, Long
Part #: 0923179B  Weight: 28 lbs.
RATCHET BINDER ASS’Y
Ratchet binder assembly for use in equipment tie down. (Includes two 5’ chains and hammer locks). NOT A LIFTING DEVICE.
Part #: 2360035A

HOOK, SLACK ADJUSTER GRAB
Slack adjuster grab hook with off-set key-lock.
Part #: 2360035A-01

ROADMASTER 22 TOTE
Ruggedly designed and interchangeably nesting tote boxes to organize your stores and redeem floor space. These steel bins come in either is 44” wide x 48” deep x 22” high or 44” wide x 48” deep x 32” high, with reinforced steel mesh walls. RoadMaster Tote bins can be moved easily by forklifts or by their four upper-mounted D-rings. 5,000 lbs. WLL.
Part #: 2310070A-22
Weight: 310 lbs.

ROADMASTER 32 TOTE
Part #: 2310070A-32
Weight: 370 lbs.

ROADMASTER RACK, BOTTLE
RoadMaster Bottle Rack for oxy-acetylene gas tanks. Designed to carry up to three gas cannisters, and comes with upper lift arm for lifting with grapple hooks.
Part #: 2310094A
Weight: 362 lbs.

ROADMASTER CRATE, HEAVY TRANSPORT, WOODEN
Heavy wooden crate for part transportation with removable sides. 57” wide x 64” long x 26” high. Stackable two high. 4,000 lbs. WLL.
Part #: 0808156A
Weight: 675 lbs.

ROADMASTER LOCOMOTIVE TOOL TRAYS, 41” OR 65” WIDE
Aluminum locomotive tool tray for engine servicing. Tray measures 41” or 65” wide x 14” deep with 12” high support leg; 2” diameter hook bracket attaches tray to engine safety rails.

RoadMaster Locomotive Tool Tray, 41”
Part #: 2310201A
Weight: 19 lbs.

RoadMaster Locomotive Tool Tray, 65”
Part #: 2310202A
Weight: 28 lbs.
SPECIALTY EQUIPMENT & FABRICATIONS

ROADMASTER RACK, CAR COUPLER, 15-SLOT
Freight car coupler racks designed to hold up to 15 couplers. Painted safety yellow.
Part #: 0805100A  Weight: 7,500 lbs.

ROADMASTER RACK, CAR COUPLER, 17-SLOT
Freight car coupler rack designed to hold up to 17 couplers. Painted safety yellow.
Part #: 0805101A  Weight: 7,500 lbs.

ROADMASTER RACK, BRAKE SHOE STORAGE
104” long x 50” wide brake shoe storage rack divided into two compartments. 16” high expanded metal walls sit 18” above the ground on a rugged frame that includes convenient fork-lift slots for easy movement. Painted safety yellow.
Part #: 2310081A  Weight: 1,012 lbs.

ROADMASTER RACK, BRAKE BEAM, 29-1/2” X 54” X 66”
RoadMaster heavy-duty brake-beam rack. 29-1/2” wide x 54” deep x 66” high. Safety yellow paint finish.
Part #: 2310073A

ROADMASTER RACK, BRAKE BEAM, 29-1/2” X 60” X 66”
RoadMaster heavy-duty brake-beam rack. 29-1/2” wide x 60” deep x 66” high. Safety yellow paint finish.
Part #: 2310073B  Weight: 404 lbs.

ROADMASTER RACK, BRAKE SHOE TOTE
60” long x 18-4/4” deep brake shoe storage with upper access door. 36” high expanded tote with 40-3/8” total height. Painted safety yellow.
Part #: 2310083A  Weight: 174 lbs.
ROADMASTER RACK, ELEVATED PLATFORM
RoadMaster heavy-duty high frame platform. 96” long x 52” deep x 18” high, with two lifting slots for forklifts @ 36” centres. Safety yellow paint finish.
Part #: 2310075A  Weight: 580 lbs.

ROADMASTER RACK, ELEVATED PLATFORM, DOUBLE
RoadMaster heavy-duty high frame platform. 96” long x 52” deep x 36” high, with two lifting slots for forklifts @ 36” centres. Shelves at 12” and 36” high. Safety yellow paint finish.
Part #: 2310075B  Weight: 1064 lbs.

ROADMASTER RACK, GASKET SUPPLY
87-3/4” high x 54” wide x 52-1/4” deep RoadMaster Rack designed for hanging replacement supplies. Five 48” x 78” double-sided, peg-board leaves on vertical hinges allow for easy, organized storage of hundreds of lightweight replacement supplies
Part #: 2310095A  Weight: 484 lbs.

ROADMASTER RACK, HAND HOLD
77” high x 73” wide x 34” deep RoadMaster Rack for stacking handhold devices. Mounted on forklift slots for easy transport.
Part #: 2310082A  Weight: 683 lbs.

ROADMASTER RACK, LOCOMOTIVE FAN
RoadMaster locomotive frame rack. 110” long x 46” deep x 68” high. Safety yellow paint finish.
Part #: 2310074A

ROADMASTER RACK, SBU
51” wide x 18” deep x 48” high rack for holding six SBU units. Painted safety yellow.
Part #: 2310079A  Weight: 139 lbs.
SPECIALTY EQUIPMENT & FABRICATIONS

ROADMASTER RACK, TRACTION MOTOR STORAGE
60” wide x 60” long Traction Motor storage rack. 2,000 Lbs. WLL and stands 48” high, allowing for space for two traction motors to be stored at a time. Painted safety yellow.

Part #: 2310084A  Weight: 328 lbs.

ROADMASTER SHELVES, 2’ DEEP, HEAVY-DUTY
8’ long x 6’ high x 2’ deep heavy-duty storage shelves, with 5 expanded metal mesh shelves, base plates, and safety yellow finish.

Part #: 2310071A

ROADMASTER SHELVES, 3’ DEEP, HEAVY-DUTY
8’ long x 6’ high x 3’ deep heavy-duty storage shelves, with 5 expanded metal mesh shelves, base plates, and safety yellow finish.

Part #: 2310072A

SPREADER BAR, EXPANDABLE, 28’
Expandable spreader bar for lifting rail sections up to 80’ long. When retracted this spreader bar is 18’ long, but extends to 28’ at full extension and has a WLL of 4,000 lbs.

Part #: SBX-28-IPS

ROADMASTER RACK, WHEEL-SET, 60’
RoadMaster heavy-duty wheel-set rack. 60’ long x 81-3/8” deep x 15” high, capable of holding 61 wheel sets. Safety red paint finish.

Part #: 2310078A  Weight: 7,600 lbs.

ROADMASTER RACK, WHEEL-SET, 40’
Part #: 2310077A  Weight: 5,100 lbs.

ROADMASTER SHELVES, WORK PLATFORM W/ STORAGE ★
RoadMaster heavy-duty work platform. 96” long x 52” deep x 34” high, with two lifting slots for forklifts @ 36” centres. Platform stands 18” above ground and is divided by expanded metal mesh. Safety yellow paint finish.

Part #: 2310076A

SPREADER BAR, LIGHTWEIGHT, 4’ LONG
IPS manufactures a lightweight spreader bar complete with two Little Dawg rail tongs. Designed and certified with a 2-ton working load limit and designed to lift 39’ lengths of rail.

Part #: LSB-IPS  Weight: 82 lbs.

Today railroads carry 40% of all freight in the US – more than at any other time in history.
STAIR ASSEMBLIES

IPS manufactures a variety of stair structures for custom applications. From lightweight moveable stairs for attachment to carts and vehicles (shown here) to multi-story fixed structures for ascending buildings and site towers, IPS has the expertise to work with aluminum, galvanized steel, or other custom materials to provide safe and long-term solutions to your needs. Pictured here is the 0923170A Lightweight Trailer Stair.

Part #: 0923170A  Weight: 78 lbs.

STAIR, FOOT STOOL, ALUMINUM

This 18" high foot stool has a 14-1/2" x 14-1/2" checker-plate surface; foot stool base measures 25" x 25" and has rubber feet for increased stability.

Part #: 0808111A  Weight: 14.2 lbs.

STAIR, "APPLE CRATE" FOOT STOOL, WOODEN

Wooden "Apple Crate" style foot stool designed for sturdy yet easily portable use. Painted yellow with safety-grip surface. 19" wide x 14" deep x 11" high.

Part #: 0808139A  Weight: 30 lbs.

STAIR, FOOT STOOL, SMALL ALUMINUM

This 10-3/4" high foot stool has a 11" x 14" checker-plate surface; foot stool base measures 17-1/4" x 20-1/4" and has rubber feet for enhanced stability.

Part #: 0808148A

STAIR, LOCOMOTIVE SERVICE

Hooked locomotive service stair. 22" wide, 82" high with steps at 11" intervals, made from aluminum square tubing.

Part #: 0923188A  Weight: 34 lbs.

STAIRS, SHUTTLEWAGON

26" wide x 66" high 3-step shuttlewagon stairs with hand-holds. Painted black.

Part #: 0923194A  Weight: 148 lbs.
**STAND, NIGHT LIGHT**
Two-piece weld on equipment light stand, comes equipped with two light installation tabs & two pins to raise/lower to desired height. Painted flat black.
Part #: 0806134A

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**TOTE BOOM ASSEMBLY**
Tote boom for speedswing machines; comes equipped with swivel hook assembly (part # A-2499-01, also sold separately).
Part #: A-2499  Weight: 500 lbs.
Swivel Hook Ass’y, Tote Boom
Part #: A-2499-01

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**WELDING PALLET, COMPACT**
Compact portable welding pallet with mounts for two cylinders and lockable tool cabinets.
Part #: 2310127C

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**TOTE BOOM ASSEMBLY**
Tote boom for speedswing machines; comes equipped with swivel hook assembly (part # A-2499-01, also sold separately).
Part #: A-2499  Weight: 500 lbs.
Swivel Hook Ass’y, Tote Boom
Part #: A-2499-01

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**WELDING TRAILER, 2-WHEEL**
A heavy-duty 2-wheel trailer fully equipped with a welding machine, oxy/acylene cutting torches and hose reels.
Part #: 2310127D  Weight: 1,270 lbs.

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**WELDING PALLET, PORTABLE**
IPS manufactures Portable Welding Pallets designed to fit a portable welder, welding cylinders and hose reels. Designed to be easily loaded and unloaded from a truck with a forklift.
Part #: 2310127A  Weight: 220 lbs.

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**WHEEL PULLER, 10”**
Wheel puller for 10” diameter wheels, designed to break seals when removing wheels from axle assemblies. For other diameters please consult our sales team.
Part #: 8000110A  Weight: 140 lbs.

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**WHEEL SET LIFTER, “MANTIS”**
The “Mantis” wheel set lifter is a fork-lift attachment with a WLL of 3,500 lbs. Used to easily move 30” diameter wheel set assemblies.
Part #: 8000100A  Weight: 400 lbs.
PROTECT THE ENVIRONMENT WITH IPS COLLECTOR PANS

IPS Collector Pans are a system of steel pans and cross drains which are easily installed on new or existing tracks to collect pollutants such as spilled diesel fuel, greases, chemicals and toxic liquids. IPS Collector Pans are ideal for use around fueling stations, tank car loading and unloading areas, and washing and cleaning operations. IPS Engineering meets the challenges of specific projects by conducting a detailed survey and creating design drawings for customized pans. As a result, the pans match the existing geometry precisely and minimize field cutting during installation.

The IPS collector system provides full pan protection for the area between and outside the rails. Cross drains are installed between the ties and at right angles to the pans to carry wastes and rainwater into underground drains and tanks for treatment.

SPECIFICATIONS:
- All components fabricated from commercial quality hot rolled steel meeting ASME designation A-36
- Manufacturing tolerance for fabrication ±6 mm (1/4")
- All crosswalks to be 610 mm (24") wide with non-skid surface
- All fasteners zinc plated
- Galvanized and stainless steel pans available upon request.

TECHNICAL DATA:
- Module length (center to center of cross drains): 3.0 - 12.2 m (10 - 40 ft)*
- Width (outside to outside of pan flanges): 3004 mm (118 1/4")*
- Width of crosswalk: 102 mm (4")
- O.D. of cross drain downspout: 102 mm (4")

*Collector pan dimensions are customizable to suit customer requirements.
<table>
<thead>
<tr>
<th>Item Description</th>
<th>Part #:</th>
<th>Weight:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brass Bell, 3-7/8”</td>
<td>BB-4-IPS</td>
<td>3.7 lbs.</td>
</tr>
<tr>
<td>A 3-7/8” diameter polished brass bell mounted on a 6” x 6” square walnut base. Ideal for desks, shelves or mantelpieces, &amp; comes with engraved brass plaque “SPIRIT OF THE IRON HORSE”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brass Bell, 9”</td>
<td>BB-9-IPS</td>
<td>26.2 lbs.</td>
</tr>
<tr>
<td>A 9” diameter polished brass bell mounted on a 10-1/4” diameter octagonal walnut base. Ideal for retirement gifts or special awards.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brass Bell, 12”, R&amp;R</td>
<td>BB-IPS R&amp;R</td>
<td>45 lbs.</td>
</tr>
<tr>
<td>IPS can refurbish old working train bells like this 12” diameter bell to become polished brass bells mounted on a 16’ square black walnut base. Ideal for retirement gifts or special awards.</td>
<td></td>
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</tr>
<tr>
<td>Brass Bell, 9”</td>
<td>GPBE-85</td>
<td>40 lbs.</td>
</tr>
<tr>
<td>A 9” diameter polished brass bell mounted on a 10-1/4” diameter octagonal walnut base. Ideal for retirement gifts or special awards.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Book End Set, Chrome Plated</td>
<td>CPBE-85</td>
<td>1 lb.</td>
</tr>
<tr>
<td>Attractive chrome plated book end set to commemorate long term service for dedicated railroaders or to recognize achievement in the industry. Machined, polished and chrome plated.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Book End Set, Gold Plated</td>
<td>GPBE-85</td>
<td>40 lbs.</td>
</tr>
<tr>
<td>Attractive gold plated book end set to commemorate long term service for dedicated railroaders or to recognize achievement in the industry. Machined, polished and 18 karat gold plated.</td>
<td></td>
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</tr>
<tr>
<td>Spike Driver</td>
<td>GPRS-6</td>
<td>1 lb.</td>
</tr>
<tr>
<td>Gold plated rail spike for your desk or office. Plated with 18 karat gold.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sculpture, Spike Driver</td>
<td>GSDS-100</td>
<td>1.1 lbs.</td>
</tr>
<tr>
<td>Unique handmade sculpture of a Spike Driver at work made from a metal spike and steel. Measures 7” wide x 3” deep x 6-1/2” high.</td>
<td></td>
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### ADZER/KRIBBER

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<td>Adzer Bit Bolt Kit</td>
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<td>731421-IPS</td>
<td>Adzer Bit, Rectangular</td>
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<td>731425-IPS</td>
<td>Adzer Bit, Rectangular, Advanced</td>
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<td>731420-IPS</td>
<td>Adzer Bit, Round</td>
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<tr>
<td>731424-IPS</td>
<td>Adzer Bit, Round, Advanced</td>
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<tr>
<td>764986-IPS</td>
<td>Adzer Cutting Head, 4-Sided (16” Dia.)</td>
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<tr>
<td>764479-IPS</td>
<td>Adzer Cutting Head, 4-Sided (19” Dia.)</td>
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<tr>
<td>761279-IPS</td>
<td>Adzer Cutting Head, 4-Sided (21” Dia.)</td>
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<tr>
<td>ADKK19-2</td>
<td>Adzer Cutting Head, 6-Sided (19” Dia., 2” taper)</td>
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<tr>
<td>ADKK19-3</td>
<td>Adzer Cutting Head, 6-Sided (19” Dia., 3” taper)</td>
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<tr>
<td>ADKK21-2</td>
<td>Adzer Cutting Head, 6-Sided (21” Dia., 2” taper)</td>
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<tr>
<td>ADKK21-3</td>
<td>Adzer Cutting Head, 6-Sided (21” Dia., 3” taper)</td>
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<td>731426-IPS</td>
<td>Bit, Under Cutter, 1 piece</td>
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<td>731427-IPS</td>
<td>Bit, Under Cutter, 4 piece</td>
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<tr>
<td>90050493</td>
<td>Bushing, Tie Crane, 3.17”, Phenolic</td>
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<td>9010682</td>
<td>Bushing, Tie Crane, 3.37”, Phenolic</td>
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<td>53.0972-A</td>
<td>Pin, Rod End, 1” x 5-7/8”</td>
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<td>RRS-25-IPS</td>
<td>Rail Sweep, Rotating</td>
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<tr>
<td>9000258</td>
<td>Washer, Tie Crane, 4-1/2”, Phenolic</td>
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### ANCHOR APPLICATOR

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<th>Part #</th>
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<th>Page</th>
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<td>Body Stops, Anchor Applicator</td>
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Since 1975, IPS has served the Rail and Industry sectors with parts, tools, precision machining, general and customized fabrication and heavy equipment service. We provide custom designed and built tools and equipment for a wide variety of railway and industrial applications. Our skilled people and diverse equipment give us the flexibility to tackle a wide range of projects and respond to your urgent requirements. We are proud of our commitment to quality, service and safety.

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