Rail Handling & Track Tools
Rail Gauges
Hand Tools
Locomotive Parts
Brake Components
Railway Equipment Servicing
Custom Rail Machining & Bending
Maintenance of Way Parts
Rail Safety Products
Rail Carts
Wheels and Wheel Rebuilding
Specialty Equipment Fabrication

INNOVATIVE PARTS & SOLUTIONS Ltd.
20125 Stewart Crescent
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Our Mission:
The IPS team is dedicated to quality and service, manufacturing and supplying an extensive range of parts and designing innovative solutions for rail and industry to increase our customers’ productivity and safety.

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.

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★ signifies new parts throughout catalogue
**RAIL HANDLING TOOLS**

**“JEFFERSON” RAIL THREADER TONG**
This unique high-performance rail threader operates like a conventional rail threader, but has two 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. 3-Ton WLL.

- Part #: 2310045A (Square Handle)  
  Weight: 138 lbs.
- Part #: 2310045B (Hook Handle)  
  Weight: 136 lbs.

**REPLACEABLE ROLLER ASS’Y, JEFFERSON THREADER**
Replacement rollers for the Jefferson Tong threader are supplied complete with axle, bearing, lock washer and nut.

- Part #: 2310045A-01  
  Weight: 9 lbs.

**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 sizes 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 handle short sections of rail with ease. Designed to open automatically when lowered onto the head of a rail, this tool will handle most rail profiles. Fits 12-141 lbs./10-68 Kg rail profiles.

- Part #: RHD3.3-IPS  
  Weight: 15 lbs.

**“JEFFERSON” RAIL THREADER TONG W/ HOOK HANDLE, AU**
3-Ton “Jefferson” rail threader painted for regions such as Australia requiring Safety Yellow paint.

- Part #: 2310045B-AU  
  Weight: 136 lbs.

**RAIL TONG “FROG DAWG II” 6.0-TON, AU**
6-Ton “Frog Dawg II” rail tong for regions such as Australia requiring Safety Yellow paint.

- Part #: FHD6.0-AU  
  Weight: 60 lbs.

**RAIL TONG 3.3-TON “LITTLE DAWG”, AU**
3.3-Ton “Little Dawg” rail tong for regions such as Australia requiring Safety Yellow paint.

- Part #: RHD3.3-AU  
  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 pull short sections of rail. Fits 12/141 lbs./10-68 Kg rail profiles.

Part #: RHD8-IPS  Weight: 82 lbs.

TIMBER TONG 2.2-TON
C/W TIPS, AU

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.

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 short sections of rail, and tested to 50,000 lbs.

Part #: RHD10-IPS  Weight: 90 lbs.

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.
**“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.

### “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.

### “BULL DAWG” RAIL THREADER HANDLE, HOOK

A heavy-duty handle for the Bull Dawg rail threader (2310044D), designed for lifting with a crane hook. 1-1/2” diameter bore.

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

### PIN, BULL DAWG HANDLE

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

Part #: 2310044C-03

### PIN, BULL DAWG PIVOT BAR

Pin for the pivot bars on Bull Dawg threaders (part # 1347).

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

### 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 paired heavy-duty rollers, bearings and axles.

Part #: 1347 Weight: 30 lbs.

### 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.

### 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. Fits 40-141 lbs./30-68 Kg rail profiles.

Part #: HDT-500 Weight: 95 lbs.

### 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 lbs.
“CYCLOPS II” 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.

RAIL THREADER “HOUND DAWG”, 5-TON, AU

5-Ton “Hound Dawg” rail threader for regions such as Australia requiring Safety Yellow paint.

Part #: HDT-500-AU  Weight: 95 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.

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.

RAIL PULLER, LIGHT WEIGHT

Lightweight rail shackle for dragging lengths of rail.

Part #: 2310088A

QUICK CONNECT

7/8” rod formed to quickly provide link points for rails. Can be linked with chains or other link devices.

Part #: 2362000A-02 (Short)  Weight: 4.2 lbs.
Part #: 2362000A-01 (Long)  Weight: 4.6 lbs.
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. Fits 85-141 lbs./41-68 Kg rail profiles.

- **25’ rope** Part #: RTC-500
  - Weight: 5 lbs.
- **50’ rope** Part #: RTC-550
  - Weight: 6 lbs.
- **25’ rope** Part #: RTC-500-AU
  - Weight: 5 lbs. Painted Safety Yellow.
- **50’ rope** Part #: RTC-550-AU
  - Weight: 6 lbs. Painted Safety Yellow.

QUICK CONNECT ASS’Y, 6’ CHAIN

6’ foot chain with quick connect bar, shackles, and quick connect hook.

- Part #: 2362000C-06
- Quick Connect Ass’y, 12’ Chain
  - Part #: 2362000C-12
- Quick Connect Ass’y, 16’ Chain
  - Part #: 2362000C-16

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.

PIN, LYNCH, 3/16”

3/16” Lynch pin for 3/4” shackle used on Quick Connect devices.

- Part #: 2362000A-05
  - Weight: .05 lbs.

GUIDE, RAIL LOADER

Rail loader guide for continuous welded rail applications.

- Part #: 2362002A
  - Weight: 37.5 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**

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.

**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.

**SWIVEL, EYE-AND-EYE, 8.5-TON**

Eye and eye swivel rated for 8.5 tons.
Part #: 2310032B

**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.
RAILHANDLING TOOLS

RAIL RUNNER 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 RUNNER ROLLER
A replaceable roller for the Railrunner track handler. (Photo includes replaceable bearings - part # 2310055A-04).
Part #: 2310055A-02
Weight: 12 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.

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.

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 #: 4023-74-IPS
Weight: 63.5 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 #: 2310030A
Weight: 20 lbs.

RAIL GAUGER, INSULATED EXPANDER/PULLER, 42"
42" Heavy Duty aligning tool designed for correcting wide or tight gauge. Alignment is achieved from the base of the rail. Insulated and designed for 30 Kg to 40 Kg rail. Great tool for rail change out application, restoring gauge quickly and easily in derailment areas and holding gauge during tie renewal programs.
Part #: 2310030D

LOAD BINDER
Load binder ratchet for 2310030B gauger.
Part #: 2310030B-01
Weight: 12 lbs.
"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.

BAG, ACCURATUS TRACK GAUGE

Carry bag for the Accuratus Track and Elevation Gauge (part # 2310030C).

Part #: 2310030C-01  Weight: 1 lb.

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.

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 #: 2310066A

TRACK GAUGE EXTENSION, BURGUNDY

This precision machined, burgundy anodized aluminum extension is designed as an attachment to improve the usability of the track gauge # 2310030C.

Part #: 2310056B  Weight: 0.6 lbs.

RAIL GAUGE, PIPE CENTRE, 56-1/2""""

56-1/2" pipe centre track gauge for confirming rail gauge.

Part #: 2310066A  Weight: 15 lbs.

TRACK JACK, 15 TON

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.
**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"**
6" od x 11-3/4" thick bottom roller for CWR cars.
Part #: 806935  Weight: 65 lbs.

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

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

**SHEAR, PLASSER STYLE RAIL, 115 LBS.**
Plассer Style Rail Shear (specific to rail size) made from stainless steel with a hardened contact edge. It is built to remove excess material from a joint after a CWT weld.
Part #: 0808013A

**SHEAR, PLASSER STYLE RAIL, 136 LBS.**
Plассer Style Rail Shear (specific to rail size) made from stainless steel with a hardened contact edge. It is built to remove excess material from a joint after a CWT weld.
Part #: 0808014A

**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.

**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.

**AXLE SHAFT, ROLLER, UHMW**
1-1/16" diameter x 9-1/4" long UHMW axle roller shaft.
Part #: 0808119A  Weight: 3 lbs.

**PIN, ROLLER, 2" X 14-11/16"**
2" diameter x 14-11/16" long 4140 steel roller pin for CWR cars.
Part #: 0806098A  Weight: 12.5 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)  Weight: 89 lbs.
Part #: 2310025B (Top Hinge)  Weight: 89 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, OPERATION & PARTS BOOK, POLYETHYLENE
Plastic polyethylene box, 15" tall x 14" wide x 6" deep. Lockable, wall-mountable, and ideal for manuals, parts books, or other field documents.

Part #: 2310019B  Weight: 6 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.
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.

Part #: 764986-IPS (16" Dia.)  Weight: 70 lbs.
Part #: 764479-IPS (19" Dia.)  Weight: 95 lbs.
Part #: 761279-IPS (21" Dia.)  Weight: 113 lbs.

IPS offers round carbide adzer bits for Adzer machines. Supplied bubbled-wrapped in boxes of 12 bits. 3-1/4" outside diameter.

Part #: 731421-IPS  Weight: 1.5 lbs.

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.

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.

Part #: ADKK19-2 (19" Dia., 2" taper)  Weight: 120 lbs.
Part #: ADKK19-3 (19" Dia., 3" taper)  Weight: 120 lbs.
Part #: ADKK21-3 (21" Dia., 3" taper)  Weight: 145 lbs.

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.

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.

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.

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.
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 #: 1878-0195  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, 1-3/4”, STEEL

1-3/4” od, 1-1/2” id x 3/4” long HSTR steel bushings for the fixed link assembly on anchor applicators (complete unit # 9668-0041).

Part #: 2211-9397  Weight: 0.15 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.

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.

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.

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.

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.

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.

INSULATION KIT, ANCHOR APPLICATOR

Wheel insulation kit for anchor applicator axles.

Part #: 9635-0120  Weight: 0.27 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.**

**PIN, ANCHOR APPLICATOR, 7/16" X 6-1/2"**
7/16" diameter x 6-1/2" long steel chute door pin for anchor applicator machines, with welded 1" od x 1/2" thick washer.

- **Part #: 5423-6950**  
  **Weight: 0.31 lbs.**

**PIN, ANCHOR APPLICATOR, 3/4" X 7-1/4"**
3/4" diameter x 7-1/4" long steel pin for anchor applicator machines, with two 3/16" pin holes.

- **Part #: 5404-6752**  
  **Weight: 0.81 lbs.**

**PIN, ANCHOR APPLICATOR, 1" X 3-1/2"**
1" diameter x 3-1/2" long steel cylinder yoke pin for anchor applicator machines, with 1-5/16" diameter shoulder. One 3/16" pin hole.

- **Part #: 5426-0150**  
  **Weight: 1.06 lbs.**

**PIN, ANCHOR APPLICATOR, 1" X 4-15/16"**
1" diameter x 4-15/16" long steel center support pin for anchor applicator machines, with two 3/16" pin holes.

- **Part #: 5426-0150**  
  **Weight: 1.06 lbs.**

**PIN, ANCHOR APPLICATOR, 1-1/4" X 4-1/4"**
1-1/4" diameter x 4-1/4" long steel pin for anchor applicator machines, with two 3/16" pin holes.

- **Part #: 5425-9996**  
  **Weight: 1.45 lbs.**

**PIN, CLAMP STOP**
Right and left Clamp Stop Pads for anchor applicators. 6-1/4" x 1-3/8" x 1-3/4" alloy steel, case hardened to 50-53 HRC.

- **Part #: 1878-0192 (RH)**  
  **Weight: 2.2 lbs.**

- **Part #: 1878-0193 (LH)**  
  **Weight: 2.2 lbs.**

**PIN, ANCHOR HOLDER, 1" X 4-3/4"**
1" diameter x 4-3/4" C1018 pin with welded 5/8" SAE washer at end, for anchor applicators. 2 pins usually required per machine.

- **Part #: 5404-7190**  
  **Weight: 1.05 lbs.**

**PIN, ANCHOR APPLICATOR, 1" X 6-7/8"**
1" diameter x 6-7/8" long steel end cylinder pin for anchor applicator machines, with two 1/8" pin holes.

- **Part #: 5426-2360**  
  **Weight: 1.5 lbs.**

**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.**
**MAINTENANCE OF WAY PARTS**

**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.

**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.

**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.

**TURNBUCKLE, ANCHOR APPLICATOR**

A solid anchor applicator turnbuckle for anchor applicators, including grease fitting and hardened steel bushing. Fits within hexagonal housing (part # 8290-0012).

Part #: 6606-8865  Weight: 5 lbs.

**TURNBUCKET 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”, HYDLAR
- 1-3/4” od, 1-1/2” id x 1-1/8” long hydlar 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, 2-1/4”, HYDALAR
- 2-1/4” od, 1-1/2” id hydalar insulator thrust washer for autolifter machines. 1/8” thick.
- Part #: 6418-1752
- Weight: 0.01 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.
BLADE BLOCK, PLOW
Support block for Knox Kershaw ballast regulators. 3/4” steel alloy plate, 6-11/16” x 5” and painted black.

Part #: 9001399  Weight: 5.25 lbs.
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.

Part #: 218508  Weight: 83 lbs.

BLADE, GRADER, 2-HOLE, AR400, 9” X 26-5/8” *
Precision cut from 3/4”, heavy-duty AR400 plate for ballast regulator machines. Each mounting location boasts two different height-locating holes, drastically increasing the usable wear-life of the blade. 26-5/8” long x 9” wide. Painted flat black.

Part #: 9011357  Weight: 40 lbs.

BLADE, GRADER, 2-HOLE, CHROMIUM-CARBIDE, 9” X 26-5/8” *
Precision cut from 3/4”, heavy-duty AR400 plate and then reinforced with a chromium carbide overlay for ballast regulators. Each mounting location boasts two different height-locating holes, drastically increasing the usable wear-life of the blade. 26-5/8” long x 9” wide. Painted flat black.

Part #: 9011357B  Weight: 42 lbs.

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.

Part #: 9011359  Weight: 54 lbs.

BLOCK, WING PIVOT
2” x 2” x 7” wing pivot block for the KBR925 ballast regulator.

Part #: 9011028-IPS  Weight: 6.4 lbs.

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.

Part #: 9011359B  Weight: 56 lbs.

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.

Part #: 9011359B  Weight: 56 lbs.

BROOM SKIRT DEFLECTOR, L/H
Broom deflector skirt baffle for Knox Kershaw ballast regulators, left hand.

Part #: 0760204  Weight: 156 lbs.

BROOM SKIRT DEFLECTOR, R/H
Broom deflector skirt baffle for Knox Kershaw ballast regulators, right hand.

Part #: 0760203  Weight: 156 lbs.
MAINTENANCE OF WAY PARTS

BROOM CLAMP, STANDARD
A standard broom clamp cast from high-strength steel and designed for ballast regulators, this version has four cast ‘fangs’ inside the clamp to increase the biting power into rubber whiskers. Measures 5” long x 2-3/4” wide, and supplied complete with a 2-1/4” long 5/8” NC Grade 5 bolt and lock washer.

Part #: SBC-114-IPS  Weight: 2 lbs.

BOLT, 5/8” x 2-1/4”, GR 5
5/8” x 2-1/4” Gr 5 NC zinc-plated hex bolt for broom clamps. 5/8” spring lockwasher included.

Part #: SBC-114-IPS-01  Weight: 0.2 lbs.
Bolt, 5/8” x 2-1/4”, Gr 8
Part #: SBC-114-IPS-02  Weight: 0.2 lbs.

BUSHING, BALLAST REGULATOR, 1-3/4”, ALUMINUM-BRONZE
1-3/4” od, 1-1/2” id x 1” long aluminum-bronze bushing for Knox Kershaw ballast regulator machines.

Part #: 9000107-IPS  Weight: 0.08 lbs.

BUSHING, BALLAST REGULATOR, 1-3/4”, ALUMINUM-BRONZE
1-3/4” od, 1-1/2” id x 1” long aluminum-bronze bushing for Knox Kershaw ballast regulator machines.

Part #: 9000646-IPS  Weight: 0.17 lbs.

BUSHING, BALLAST REGULATOR, 1-3/4”, BRONZE
1-3/4” od, 1-1/2” id x 2” long sintered bronze cross-over bushing for Knox Kershaw ballast regulators.

Part #: 9017265  Weight: 0.3 lbs.

BUSHING, BALLAST REGULATOR, 2-1/2”, BRONZE
2-1/2” od, 2” id x 2” long sintered bronze cross-over bushing for Knox Kershaw ballast regulators.

Part #: 9017267  Weight: 0.83 lbs.

BUSHING, BALLAST REGULATOR, 2-1/2”, ALUMINUM-BRONZE
2-1/2” od, 2” id, 2” long upgraded bushings for Knox Kershaw ballast regulator machines, machined from aluminum-bronze alloy for increased durability.

Part #: 9011361-IPS  Weight: 0.95 lbs.

BUSHING, BALLAST REGULATOR, 1-3/4”, STEEL
1-3/4” od, 1-1/4” id x 3/4” long steel bushing for ballast regulator machines.

Part #: 9000741  Weight: 0.25 lbs.

BUSHING, BALLAST REGULATOR, 1-3/4”, ALUMINUM-BRONZE
1-3/4” od, 1-1/2” id x 2” long aluminum-bronze bushing for Knox Kershaw ballast regulator machines, with chamfered end and internal grease grooves.

Part #: 9000110-IPS  Weight: 0.33 lbs.

BUSHING, BALLAST REGULATOR, 2-1/2”, BRONZE
2-1/2” od, 2” id x 1-1/2” long sintered bronze cross-over bushing for Knox Kershaw ballast regulators.

Part #: 9017268  Weight: 0.63 lbs.

BUSHING, BALLAST REGULATOR, 2-1/2”, ALUMINUM-BRONZE
2-1/2” od, 2” id, 2” long upgraded bushings for Knox Kershaw ballast regulator machines, machined from aluminum-bronze alloy for increased durability.

Part #: 9011361-IPS  Weight: 0.95 lbs.

BROOM CLAMP, PHOENIX
Broom clamp cast from high-strength steel and designed for ballast regulators, with four cast ‘fangs’ inside the clamp to increase the biting power into rubber whiskers. Carriage-bolt mount.

Part #: PBC-114  Weight: 2 lbs.

BROOM CLAMP, COMBINATION
The CBC-114 is a cast broom clamp suitable for all Ballast Regulators, and is designed for machines with a reversing feature. Unique design offers improved longevity. Supplied complete with a 5/8” NC grade 5 bolt and lock washer.

Part #: CBC-114  Weight: 3.3 lbs.
## MAINTENANCE OF WAY PARTS

### Knox Kershaw Ballast Regulator

#### Bushing, Ballast Regulator, 2-1/2”, Steel

2-1/2" od, 2" id x 2" long steel bushing for ballast regulator machines.

| Part #: 9019548 | Weight: 0.9 lbs. |

#### Bushing, PLOW Shaft, 5-1/2”, Composite

5-1/2" od, 5” id x 2-1/2” long composite bushing for ballast regulator machines.

| Part #: 9000038 | Weight: 0.7 lbs. |

#### Lock, Pivot Pin

Pivot pin lock for KBR925 ballast regulators.

| Part #: 9031073-IPS | Weight: 2.9 lbs. |

#### 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. |

#### MALE SLIDER ASS’Y

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 6-1/2”

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

| Part #: 9011119 | Weight: 5.4 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 #: 9012665 | Weight: 3.2 lbs. |

#### PIN, BALLAST REGULATOR, 1-1/2” X 6-1/4”

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

| Part #: 9011705 | Weight: 3.2 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 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. |
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, UPPER PLOW ★
This is the upper pin that attaches the plow to the plow lock assembly.
Part #: 9006926  Weight: 3.4 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 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, 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, LOWER PLOW ★
This is the lower pin that attaches the plow to the plow lock assembly.
Part #: 9006923  Weight: 17.6 lbs.

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

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 PAD, 6-1/2" X 11", RUBBER
6-1/2" wide x 11" long 3/8" thick rubber rail sweep pad for 46-1 ballast regulators. Four 1/2" punched mounting holes.
Part #: 136568  Weight: 1.9 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.
ROLLER, BALLAST REGULATOR

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.

WASHER, BALLAST REGULATOR, 6-3/4", ALUMINUM-BRONZE

1-1/2" diameter x 12-1/2" long capped wire broom whisker with one 1-1/2" diameter x 3" long metal tube crimped onto each end. Used on Kershaw walk-behind Adzer Cribber machines and subbed in for other short-broom uses.

Part #: 175955-W  Weight: 5 lbs.

WIRE BROOM, CAPPED

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

RAIL PLATE, BALLAST REGULATOR

The BKE200 Knocker element is heavy-duty Broom Element ("whisker") designed for Ballast Regulators but reinforced with a heavy-duty, securely crimped, steel "Knocker" at one end. This augmentation provides increased durability and longevity for the broom element as well as greater momentum for heavy or frozen ballast clearing. Measures 2" diameter x 18" long.

Part #: BKE200  Weight: 4.4 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.

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.

PLATE, SKIRT WEAR, LEFT

15" high x 55" long left hand stone guard for ballast machines with 3", 72° top flange.

Part #: 760206  Weight: 69 lbs.

PLATE, SKIRT WEAR, RIGHT

15" high x 55" long right hand stone guard for ballast machines with 3", 72° top flange.

Part #: 760205  Weight: 69 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 #: 9001276  Weight: 0.6 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.

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, 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, 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.

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, 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, 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.

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, 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, 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.

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, 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, 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.

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, 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, 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.

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, 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.
**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.

**BOLT, PLOW, 1/2” X 3”, C/W NUT & LOCKWASHER**
1/2” x 3” plow bolt complete with nut and lockwasher for nose skids - 6” (664738-IPS) and 7” (9001236-IPS).

Part #: 0806146A  Weight: 0.6 lbs.

**BLADE, WING, 9” X 17”, AR400**
9” x 17” AR400 wing blade for ballast regulators.

Part #: 224186

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

Part #: 224212

**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.

**CAM**
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.

**HUB & CUP ASSEMBLY**
Hub and cup assembly used in ballast regulators and other MOW equipment.

Part #: 35.0370  Weight: 45 lbs.

**IDLER FRAME**
3” wide (overall) x 13-1/4” long idler frame for ballast regulator machines complete with one bushing and painted yellow.

Part #: 51.0580-B  Weight: 6.6 lbs.

**PADDLE ASS’Y, SNOW BLOWER**
Snow blower paddle with threaded holes including rubber retainer plate.

Part #: 92093  Weight: 8.2 lbs.

Paddle, Snow Blower
Snow blower paddle with threaded holes for rubber (part # 92093).

Part #: 11.5787  Weight: 8 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, 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.

### PIN, BALLAST REGULATOR, 2” X 11-1/4”
Heavy-duty pivot arm for Kershaw ballast regulator. 14-1/2” long x 7” wide x 4-1/2” deep. Main pivot has a 3-1/8” id with a 3/4” machined keyway.
- Part #: 04.2216
- Weight: 9.8 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, 3”, BRONZE
3” od, 1-1/2” id bronze washer for Kershaw ballast regulator machines. 1/4” thick.
- Part #: 15.1464
- Weight: 0.43 lbs.

### ROD, PISTON, 1-1/4” X 34-1/16”
1-1/4” diameter x 34-1/16” long chrome-plated piston rod for ballast regulators. The rod has a 1-3/4” od, 1” id x 2-1/16” pivot mount. Piston end machined and threaded to 7/8” NF.
- Part #: 08.1980
- Weight: 13 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.

### SPRING, 7 LEAF★
7-leaf suspension spring for Kershaw Model 46 ballast regulators wheel axle assemblies.
- Part #: 034369
- Weight: 0.75 lbs.

### WASHER, BALLAST REGULATOR, BRONZE, 3”★
3” od, 1-1/2” bronze washer for ballast regulator machines. 1/4” thick.
- Part #: 15.1462
- Weight: 0.7 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.

PIN, BALLAST REGULATOR, 3/4” X 2-1/2”
3/4” diameter x 2-1/2” steel dowel pin for Pyke/Nordco ballast regulators.
Part #: 2911  Weight: 0.31 lbs.

PIN, BALLAST REGULATOR, 1” X 3-1/4”
1” diameter x 3-1/4” long steel pin for Pyke/Nordco ballast regulators, with two 3/16” pin holes.
Part #: A-5003-21  Weight: 0.7 lbs.

PIN, BALLAST REGULATOR, 1” X 3-5/8”
1” diameter x 3-5/8” long steel wing cylinder pin for M Model ballast regulators. 5/16” wide x 5/16” deep keyway.
Part #: A-25812  Weight: 0.8 lbs.

PIN, BALLAST REGULATOR, 1” X 6-3/4”
1” diameter x 6-3/4” long steel pin used on Pyke/Nordco ballast regulators. 5/16” wide x 3/8” deep key slot.
Part #: A-25733  Weight: 1.5 lbs.

PIN, BALLAST REGULATOR, 1-1/4” X 15-3/4”
1-1/4” diameter x 15-3/4” long steel pin for Pyke/Nordco ballast regulators.
Part #: B-25804  Weight: 5.4 lbs.

PIN, BALLAST REGULATOR, 1-1/4” X 5-1/2”
1-1/4” diameter x 5-1/2” long pin for Pyke/Nordco ballast regulators, with threaded hole for grease nipple.
Part #: B-4704-4  Weight: 1.75 lbs.

PIN, TOP SWIVEL, 1-3/4” X 3-1/4”
1-3/4” diameter x 3-1/4” brake pot swivel pin for Pyke/Nordco ballast regulators, with 1” x 1-1/4” flat machined centre with 11/16” hole.
Part #: B-25387  Weight: 1.9 lbs.

PIN, BROOM, 2” X 8”
2” diameter x 8” long specially engineered broom pin for Pyke/Nordco ballast regulators; modified to house grease nipples at each end.
Part #: A-25470  Weight: 6.8 lbs.

PIN, BROOM, 2” X 8”
2” diameter x 8” long specially engineered broom pin for Pyke/Nordco ballast regulators; modified to house grease nipples at each end.
Part #: A-25470  Weight: 6.8 lbs.
MAINTENANCE OF WAY PARTS

PIN, WING ASS’Y, 1” X 20-7/16”
1” diameter x 20-7/16” long wing assembly pin with welded plate for Pyke/Nordco ballast regulators.
Part #: A-25785  Weight: 4.8 lbs.

PIN, WING CYLINDER, 1” X 3.8”
1” diameter x 3.8” wing cylinder pin for M Model ballast regulators, with internally threaded end for grease nipple.
Part #: B-4703-6  Weight: 0.72 lbs.

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.

ROLLER ASS’Y, DOOR
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.

PIN KIT ASS’Y, C/W HD WASHER
New style pin c/w 1-3/4” NF castle nut and heavy-duty washer for Brushcutters.
Part #: 1316104B  Weight: 7 lbs.

PIN, WING ASS’Y, 1-1/4” X 15-1/2”
1-1/4” diameter x 15-1/2” long wing assembly pin for Pyke/Nordco ballast regulators. Two 1/4” hairpin holes.
Part #: A-5006-20  Weight: 5.35 lbs.

PIN, WING TILT CYLINDER, 1” X 4-7/8”
1” diameter x 4-7/8” long wing tilt cylinder pin, manufactured with machined key-slot and recessed grease nipple for M7 ballast regulators. (Supersedes A-25735 & B-4703-2.)
Part #: 54260430  Weight: 1 lb.

ROD, GUIDE, 3” X 44-1/2”
3” diameter x 44-1/2” 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 D80330 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.
### MAINTENANCE OF WAY PARTS

#### AXLE, RAILSAW, 11/16” X 6”

11/16” diameter x 6” long steel axle for railsaw machines. Center spindle is 15/32”; 1/2” threaded end opposite 1” diameter modified shoulder.

- Part #: 27111
- Weight: 0.4 lbs.

#### BIT, INJECTOR DRILL

3/8” diameter x 9-3/4” long injector drill bit. Middle shoulder measures 9/16” diameter x 2-5/16” long.

- Part #: 11222B
- Weight: 0.4 lbs.

#### DRILL BIT THRUST, RAIL DRILL

3/8” diameter shoulder x 1-5/32” overall length, 5/16” threaded end.

- Part #: 11185
- Weight: 0.04 lbs.

#### FLANGE, ENGINE, 4-11/16”, STEEL

4-11/16” od, 21/32” id steel engine flange for railsaw machines. 3/16” wide x 1/8” deep machined keyslot in id, 9/16” wide at hub.

- Part #: 27162A
- Weight: 1.4 lbs.

#### FLANGE, TIGHTENING, 4-5/8”, STEEL

4-5/8” od, 5/16” id steel tightening flange for railsaw machines. Tapers from 3/8” at center to 7/32” at outer edge.

- Part #: 27118A
- Weight: 1.4 lbs.

#### DRILL BIT EJECTOR, 3/8” X 9-3/4”

3/8” diameter x 9-3/4” long steel drill bit ejector for rail drill machines. This ejector has a 17/32” diameter x 2-3/8” shoulder and 5/32” pin hole.

- Part #: 45127
- Weight: 0.8 lbs.

#### FLANGE, TIGHTENING, 4-5/8”, STEEL

4-5/8” od, 5/16” id steel tightening flange for railsaw machines. Tapers from 3/8” at center to 7/32” at outer edge.

- Part #: 27118A
- Weight: 1.4 lbs.

#### FLANGE CASING (SPARK SHIELD)

Grinding stone casing/spark shield for the Geismar MP-12 rail profile grinder.

- Part #: 37026E-IPS
- Weight: 7.5 lbs.

#### HALF SHELL, 1-3/4”, STEEL

1-3/4” diameter x 1-15/16” long steel half shell for rail drill machines. 13/32” mounting holes @ 2” centers.

- Part #: 45124A
- Weight: 0.5 lbs.

#### PIN, RAIL DRILL, 5MM X 18MM

5mm diameter x 18mm long steel spring pin for ejecter keepers on rail drill machines.

- Part #: 45153
- Weight: 0.01 lbs.

#### PIN, RAIL SAW, 4/16” X 2-7/8”

7/8” diameter x 2-7/8” long steel socket pin for railsaw machines, with two heavily chamfered ends and 11/32” grease groove.

- Part #: 32076
- Weight: 0.1 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.

#### PULLEY, RAIL DRILL, 4”, STEEL

4” diameter pulley within 4-11/16” od, 21/32” id steel engine flange for railsaw machines. 3/16” wide x 1/8” deep machined keyslot in id, 9/16” wide at hub.

- Part #: 27154
- Weight: 1.1 lbs.

#### PULLEY, RECEIVING, 2-3/4”, STEEL

2-3/4” diameter pulley within 3-5/8” od, 21/32” id steel engine flange for railsaw machines. 3/16” wide x 1/8” deep machined keyslot in id, 9/16” wide at hub.

- Part #: 45108
- Weight: 0.4 lbs.

#### PULLEY, RAIL SAW, 4”, STEEL

4” diameter pulley within 4-11/16” od, 21/32” id steel engine flange for railsaw machines. 3/16” wide x 1/8” deep machined keyslot in id, 9/16” wide at hub.

- Part #: 27154
- Weight: 1.1 lbs.
<table>
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| **SCREW, AUTOMATIC FEED**  
1-3/16" automatic feeder screw for rail drill machines.  
10-1/8" overall length, hardened to 26-30 RC.  
Part #: 45118  
Weight: 2.1 lbs. |
| **SCREW, FEED, RAIL DRILL**  
1-3/16" x 4-1/8" long feed screw with machined keyway.  
3-1/8" diameter head with 6 mounting holes.  
Part #: 11223  
Weight: 1.2 lbs. |
| **SCREW, RAIL SAW**  
Precision machined screw for rail saw positioning.  
1-1/8" (widest diameter) C0145 x 9-9/16" long.  
Part #: 27104  
Weight: 1.4 lbs. |
| **SHAFT, RAIL SAW**  
Precision machined screw for rail saw positioning.  
1-1/8" (widest diameter) C0145 x 9-9/16" long.  
Part #: 27104  
Weight: 1.4 lbs. |
| **SHAFT, RAIL SAW**  
Precision machined screw for rail saw positioning.  
1-1/8" (widest diameter) C0145 x 9-9/16" long.  
Part #: 27104  
Weight: 1.4 lbs. |
| **SHOT, SHORT ROD**  
3/16" plate short rod shaft for rail drill machines.  
2" overall length.  
Part #: 11016  
Weight: 0.06 lbs. |
| **STRIKER**  
1-7/8" diameter, 1-1/16" high striker for rail drill machines.  
Part #: 45126  
Weight: 0.3 lbs. |
| **SPINDLE, GRINDSTONE, 1-1/8"**  
1-1/8" diameter x 10" overall length grindstone spindle.  
8-3/8" to shoulder and threaded end. 2 keyways.  
Part #: 37030  
Weight: 2 lbs. |
| **WASHER, RAIL DRILL, 2-11/32", STEEL**  
2-11/32" od, 1-9/16" id x 1/8" thick steel thrust washer for rail drill machines.  
Part #: DGP  
Weight: 0.1 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 #: L-3279-3 Weight: 2 lbs.

PIN, SPEEDSWING, 1-1/2” X 4-1/2”

1-1/2” diameter x 4-1/2” long steel pin for speedswing 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 #: L-5829-5 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

BUSHING, CLAW HOUSING, 2-5/8”, BRONZE
2-5/8” od, 2-11/32” id x 4” bushing for dual spikepullers. Chamfered at one end.
Part #: 2212-9950  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.

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, Single Spike, 10/Box
Part #: 4665-0037-BOX

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.

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, 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, 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.
Claw, Double Spike, 4/Box
Part #: 4665-0068-BOX

CLAW & PIN ASS’Y, LEWIS BOLT
The IPS Lewis Bolt Claw is a unique and patented tool for effectively pulling Lewis Bolts from wooden ties. Manufactured from high-strength alloy steel for maximum longevity and performance. Supplied with a high-strength retaining pin to fit standard claw levers.
Part #: 46650071-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.
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, 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, 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" pinhole for dual spike pullers.
Part #: 3301-671  Weight: 0.38 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" pinholes.
Part #: 5426-7203  Weight: 5.46 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.
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.
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, SCREW PUNCH
This modified screw spike punch anvil for spikers has an 8” extension for pushing a screw spike through a tie. 36-1/16” overall length, 4340A steel, then heat-treated and hardened to 48-53 HRC.
Part #: 1056-0043-IPS Weight: 13.5 lbs.

ANVIL SLEEVE, STANDARD BLOCK
Anvil sleeve for part #1056-0043 anvil for spiker machines. Model C & CX.
Part #: 7303-4100 Weight: 7.7 lbs.
Anvil Sleeve, Curved Block
Part #: 7303-4101 Weight: 7.7 lbs.

BUSHING, 2-3/4”, STEEL
2-3/4” od, 2-3/8” id x 1-3/4” long steel bushing.
Part #: 2204-8021 Weight: 0.73 lbs.

BUSHING, GAUGER CLAMP, 1-7/8”, ALUMINUM-BRONZE
1-7/8” od, 1-1/2” id x 7/8” long bushing for gauger clamps on Super CX spikers, machined from aluminum-bronze for increased durability.
Part #: 2215-0281 Weight: 0.4 lbs.

BUSHING, FEEDER FRAME, 1-1/2”, ALUMINUM-BRONZE
1-1/2” od, 1-1/4” id x 3” long feeder frame bushing for Super CX spikers.
Part #: 2203-4755 Weight: 0.43 lbs.

BUSHING, JAW MOUNT, 2-3/16”, STEEL
2-3/16” od, 1-3/4” id steel bushing of spikers. 3-3/4” long.
Part #: 2212-3303 Weight: 1 lb.

ANVIL HEAD, 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.

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.

SCREW, SLOTTED SET, 5/8”
5/8” Dog-point slotted set-screw for standard or curved anvil sleeves.
Part #: 2902600 Weight: 0.1 lbs.

BUSHING, DRIVE SPROCKET, CX SPIKER
Bushing for the drive sprocket on CX Spiker machines.
Part #: 73045623

BUSHING, FEEDER FRAME, 1-1/2”, ALUMINUM-BRONZE
1-1/2” od, 1-1/4” id x 3” long feeder frame bushing for Super CX spikers.
Part #: 2203-4755 Weight: 0.43 lbs.
MAINTENANCE OF WAY PARTS

**SPIKER**

**BUSHING, SPIKER, 5/8” BRONZE**
5/8” od, 1/2” id x 3/4” long bronze bushing for spikers.
Part #: 2208-0572  Weight: 0.02 lbs.

**BUSHING, SPIKER, 1-5/32” BRONZE**
1-5/32” od, 1” id x 2” long bronze bushing for spiker machines.
Part #: 2210-3215  Weight: 0.14 lbs.

**BUSHING, SPIKER, 1-7/16” NYLON**
1-7/16” od, 1-1/4” id x 2” long nylon bushing for spiker machines.
Part #: 2211-2110  Weight: 0.04 lbs.

**BUSHING, SPIKER, 1-7/8” HYDALAR**
1-7/8” od, 1-1/2” id x 1-1/2” long hydalar bushing for spikers, with 2-3/8” od shoulder.
Part #: 2215-0285  Weight: 0.1 lbs.

**BUSHING, SPIKER, 2-3/4” ALUMINUM-BRONZE**
2-3/4” od, 2-1/4” id x 1” long aluminum-bronze bushing with internal grease groove, for rail clamp assemblies on spikers.
Part #: 2205-0800  Weight: 0.46 lbs.

**BUSHING, SPIKER, 1-1/8” BRONZE**
1-1/8” od, 7/8” id x 5/8” long bronze guide rod bushing for spiker machines.
Part #: 2209-6900  Weight: 0.25 lbs.

**BUSHING, SPIKER, 1-13/32” HYDALAR**
1-13/32” od, 1” id x 9/16” long hydalar spiker bushing with 1-7/8” od shoulder.
Part #: 2210-9180  Weight: 0.03 lbs.

**BUSHING, SPIKER, 1-7/8” ALUMINUM-BRONZE**
1-7/8” od, 1-1/2” id x 1-7/16” long bushing for the rail clamp assembly on Super C spikers, machined from aluminum-bronze for increased durability.
Part #: 2215-0286  Weight: 0.6 lbs.

**BUSHING, SPIKER, 1-15/16” STEEL**
1-15/16” od, 1-3/4” id x 1-1/2” long steel bushing for spikers with 2-1/4” od chamfered shoulder at one end.
Part #: 2212-3300  Weight: 0.24 lbs.

**BUSHING, SPIKER, 4-1/2” ALUMINUM-BRONZE**
4-1/2” od, 4” id x 1-3/4” long bushing for spiker machines, made from aluminum-bronze alloy for increased longevity. Model B & Hydra.
Part #: 2213-8400  Weight: 1.6 lbs.

**CLAMP ASS’Y, GUIDE ROD**
3/4” thick, 1-15/16” x 1-15/16” guide rod clamp assembly for spikers, complete with 3/8” x 1-1/2” bolt and lockwasher.
Part #: 9639-0035  Weight: 0.7 lbs.

**CYLINDER ASS’Y, SPIKE FEED**
Spice feed cylinder assembly for CX spiker machines.
Part #: 2855-0006  Weight: 1.7 lbs.
**MAINTENANCE OF WAY PARTS**

---

**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.

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**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.

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**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.

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**ENGINE DOOR, FRONT, CX SPIKER**

Front engine door for the CX Spiker, including latches, handles and heat shields.

Part #: 0806100A

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**ENGINE DOOR, REAR, CX SPIKER**

Rear engine door for the CX Spiker, including latches, handles and heat shields.

Part #: 0806101A

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**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.

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**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.

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**JAW MOUNTING KIT ★**

Jaw mounting kit for CX Spikers.

Part #: 98410518-IPS

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**LINK, PIVOT**

1” thick, 5-5/8” x 2-3/4” pivot link for spikers, with two 1-1/2” diameter link holes.

Part #: 4770-1760  Weight: 3 lbs.

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**MOUNT, JAW, C’BORED**

C bored jaw mount guide for the CX Spiker.

Part #: 2135-7956  Weight: 13.5 lbs.

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**PIN, CLAMP LEVER**

1-1/2” diameter x 5-1/2” clamp lever pin for spikers, with 2-1/2” diameter washer welded to the end.

Part #: 5404-7237  Weight: 2.9 lbs.

---

**PIN, 1-1/4” X 5-1/4”, STEEL ★**

1-1/4” diameter x 5-1/4” long steel pin with center 5-1/6” wide x 1/16” deep groove.

Part #: 5434-5990  Weight: 1.8 lbs.

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**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.

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**NEW!**
MAINTENANCE OF WAY PARTS

PIN, PIVOT
1-1/2” diameter x 7-1/2” long pivot pin, welded-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, 3/8” X 5-3/4”
3/8” diameter x 5-3/4” long “L” shaped steel anvil holding pin for spikers. 1-3/4” long leg, complete with 3/32” x 2” hairpin.
Part #: 5364-4893 Weight: 0.23 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.

PIN, SPIKER, 1” X 3-3/8”
1” diameter x 3-3/8” long steel lever pin for spikers, with 1-5/16” od shoulder and one 1/4” pin hole.
Part #: 5404-6700 Weight: 0.77 lbs.

PLATE, VANE
2” wide x 5” long, 3/32” aluminum vane plate for spiker machines. Two 1/4” mount holes. Model B.
Part #: 8554-0017 Weight: 0.1 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, 1/2” X 2-1/2”
1/2” diameter x 2-1/2” long steel jaw pin pin for spikers.
Part #: 5433-3282 Weight: 0.14 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.

PIN, WORKHEAD LOCK
5” long bridge clip welded to a 5-1/2”pin and 1-1/4” diameter washer for spikers. 2-1/2” wide ring allows for easy removal. 9-1/2” overall length.
Part #: 5357-1506 Weight: 0.54 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.

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.
**MAINTENANCE OF WAY PARTS**

**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 accomodate 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

**PUSHER GUIDE**

3/4” x 3/4”x 1-3/4” long steel pusher guide with 3/8” and 1/2” holes for spiker machines. Model B, C & RG.

- Part #: 1822-1827  
  Weight: 0.23 lbs.

**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.

**ROD EYE**

3/8” x 3-1/16” rod with a 0.9” od eye for Super C spikers.

- Part #: 6606-2630  
  Weight: 0.2 lbs.
MAINTENANCE OF WAY PARTS

ROD, GUIDE, 3/4” X 19”
3/4” diameter x 19” long chrome steel guide rod manufactured and designed for spikers.
Part #: 1436-8888 Weight: 2.6 lbs.

ROD, GUIDE, UNDERCUT, 3/4” X 19”★
3/4” diameter x 19” long chrome steel guide rod shaft, with additional undercut designed for the spiker machines. Model 8.
Part #: 1436-8888-IPS Weight: 2.3 lbs.

ROD, JAW MOUNT GUIDE, 1-1/4” X 18”
Jaw mounting guide rod for spikers. 1-1/4” diameter x 18” long. Model C & CX.
Part #: 1438-2490 Weight: 6 lbs.

SHAFT, SPIKER, 5/8” X 3-1/4”
5/8” diameter x 3-1/4” long steel shaft for spikers, with one 3/16” pin hole.
Part #: 5433-6702 Weight: 0.28 lbs.

SPACER, SPIKER, NYLON, 5”
5” od, 3” id x 3/8” thick nylon spacer for spikers.
Part #: 6258-7680 Weight: 1 lb.

SPIKE JAW, 5/8”, LH
Left hand spike jaw for C & CX spikers.
Part #: 4665-0032 Weight: 1.4 lbs.

SPIKE JAW, 5/8”, RH
Right hand spike jaw for C & CX spikers.
Part #: 4665-0033 Weight: 1.4 lbs.

SPIKE TRAY HEAD, LH★
34” long spike tray for Super B spikers. Attaches to left hand spike tray heads for spike delivery.
Part #: 8209-0006 Weight: 25 lbs.

SPIKE TRAY HEAD, UNIVERSAL★
Universal spike tray for Nordco spikers which fits both 8209-0062 (right hand) and 8209-0063 (left hand) spike tray heads.
Part #: 8209-0064 Weight: 20 lbs.

SPIKE TRAY HEAD, 5/8” CUT SPIKES, LH
Spike tray head for CX spikers. Left hand frame.
Part #: 82090094 Weight: 33 lbs.

SPIKE TRAY HEAD, 5/8” CUT SPIKES, RH
Spike tray head for CX spikers. Right hand frame.
Part #: 82090093 Weight: 33 lbs.

SPACER, 5”, STEEL
5” od, 3.44” id x .06” thick steel spacer for TRIPP machines
Part #: 6390-7308 Weight: 0.05 lbs.

SPIKE TRAY, LH
34” long spike tray for Super B spikers. Attaches to left hand spike tray heads for spike delivery.
Part #: 8209-0006 Weight: 25 lbs.

SPIKE TRAY, RH
34” long spike tray for Super B spikers. Attaches to right hand spike tray heads for spike delivery.
Part #: 8209-0005 Weight: 25 lbs.

SPIKE TRAY, UNIVERSAL
34” long spike tray for Super B spikers. Attaches to right hand spike tray heads for spike delivery.
Part #: 8209-0064 Weight: 20 lbs.
MAINTENANCE OF WAY PARTS

SPRING, COMPRESSION, 1-1/4” OD X 4”
1-1/4” od x 4” compression spring for model CX spikers.
Part #: 3608-431   Weight: 0.16 lbs.

TURNBUCKLE, 1-7/8” X 4-7/8”
Precision milled steel alloy hexagonal housing for Nordco screw spiker (PSS).
Part #: 8290-0021   Weight: 2.7 lbs.

WASHER, SPIKER, 1-1/2”, NYLON
1-1/2” od, 3/4” id nylon insulator washer for spikers. 3/16” thick.
Part #: 8610-2880   Weight: 0.02 lbs.

WASHER, SPIKER, 2-1/2”, NYLON
2-1/2” od, 1-1/4” id nylon insulator washer for spikers. 3/16” thick.
Part #: 6258-2510   Weight: 0.03 lbs.

WASHER, SPIKER, 2-3/4”, NYLON
2-3/4” od, 1-1/2” id nylon insulator washer for spikers. 3/16” thick.
Part #: 6258-5059   Weight: 0.04 lbs.

WASHER, SPIKER, 3”, STEEL
3” od, 5/8” id x 1/4” thick steel washer for spiker machines. Model RG.
Part #: 8604-1330   Weight: 0.3 lbs.

WASHER, SPIKER, 3”, BRONZE
3” id, 1-1/2” id bronze thrust washer for guide wheels on spikers. 3/16” thick, chamfered internal edge. Two washers used per guide wheel.
Part #: 8605-0056   Weight: 0.25 lbs.

WASHER, SPIKER, 4-1/2”, STEEL
4-1/2” od, 2-9/16” id steel washer for ballast regulator machines. 3/8” thick.
Part #: 8607-2290   Weight: 1.1 lbs.

SPRING SLEEVE
2.88” id x 3.06” od spring sleeve for CX spikers.
Part #: 7304-9020   Weight: 0.7 lbs.

VALVE CLAMP
2” high x 1-1/8” wide x 3/16” thick steel “C” valve clamp for Super C spikers.
Part #: 2554-1232   Weight: 0.73 lbs.

WASHER, THRUST, 3”, BRONZE
3” od, 1-1/2” id bronze thrust washer for guide wheels on spikers. 3/16” thick, chamfered internal edge. Two washers used per guide wheel.
Part #: 8605-0056   Weight: 0.25 lbs.
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, BIAS, 5-1/8”, 45 DEG.**
5-1/8” diameter od, 45° bias wheel for tampers and other custom rail carts.
Part #: Z-685272  Weight: 2.4 lbs.

**WHEEL, BIAS, 75 DEG.**
Bias wheel for tamper machines. This wheel has a 75° bias.
Part #: 0-2302071-0-09-75D  Weight: 2.4 lbs.

**RING, BIAS WHEEL RETAINER**
Retaining Rings for Bias Wheel Assemblies
Part #: L-410291  Weight: 0.05 lbs.

**BEARING, BIAS WHEEL**
3/4” od, 25/32” id x 9/16” thick single-row, deep groove ball bearing for bias wheel assemblies for tamper machines.
Part #: L-40153  Weight: 0.25 lbs.

**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.

**BUSHING, TAMPER, 7/8”, PHENOLIC**
7/8” od, 5/8” id x 15/16” long phenolic insulator bushing for tampers.
Part #: Z-754652-001  Weight: 0.01 lbs.

**BUSHING, TAMPER, 15/16”, PHENOLIC**
15/16” od, 13/16” id x 15/16” long phenolic insulator bushing for tampers.
Part #: Z-683417  Weight: 0.02 lbs.

**BUSHING, TAMPER, 15/16”, PHENOLIC**
15/16” od, 13/16” id x 3-7/16” long phenolic insulator bushing for tampers.
Part #: Z-683491  Weight: 0.03 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.
<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Part Number</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bushing, Tamper, 1&quot;</td>
<td>Phenolic 1&quot; od, 3/4&quot; id x 5/8&quot; long phenolic insulator bushing for tampers.</td>
<td>Z-683488</td>
<td>0.02 lbs</td>
</tr>
<tr>
<td>Bushing, Tamper, 1-3/16&quot;</td>
<td>Phenolic 1-3/16&quot; od, 1&quot; id x 1-1/4&quot; long phenolic insulator bushing for tampers.</td>
<td>Z-685917</td>
<td>0.03 lbs</td>
</tr>
<tr>
<td>Bushing, Tamper, 1-1/4&quot;</td>
<td>Phenolic 1-1/4&quot; od, 1&quot; id x 3/4&quot; long phenolic insulator bushing for tampers.</td>
<td>Z-765379-001</td>
<td>0.02 lbs</td>
</tr>
<tr>
<td>Bushing, Tamper, 1-7/16&quot;</td>
<td>Aluminum-Bronze 1-7/16&quot; od, 1-3/16&quot; id x 1-3/4&quot; long aluminum-bronze wheel bushing set for tampers.</td>
<td>Z-683657-IPS</td>
<td>0.24 lbs</td>
</tr>
<tr>
<td>Bushing, Tamper, 1-1/2&quot;</td>
<td>Bronze 1-1/2&quot; od, 1&quot; id x 1-15/16&quot; long bronze link bushing for tampers.</td>
<td>Z-683434</td>
<td>0.62 lbs</td>
</tr>
<tr>
<td>Bushing, Tamper, 1-5/8&quot;</td>
<td>Bronze 1-5/8&quot; od, 1&quot; id x 2&quot; long bronze bushing for tamper machines. End of bushing has id increased to 1-1/2&quot; for 5/16&quot; long.</td>
<td>Z-750918</td>
<td>0.72 lbs</td>
</tr>
<tr>
<td>Bushing, Tamper, 1-3/4&quot;</td>
<td>Bronze 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>Z-683436</td>
<td>0.38 lbs</td>
</tr>
<tr>
<td>Bushing, Insulator, 1-3/16&quot;</td>
<td>Phenolic 1-3/16&quot; od, 7/8&quot; id x 3-1/2&quot; long phenolic insulator bushing for tampers.</td>
<td>Z-752202-01-001</td>
<td>0.08 lbs</td>
</tr>
<tr>
<td>Bushing, Tamper, 1-1/4&quot;</td>
<td>Phenolic 1-1/4&quot; od, 1&quot; id x 3/4&quot; long phenolic insulator bushing for tamper machines. Harco Mk IV.</td>
<td>A-1856-T03</td>
<td>0.05 lbs</td>
</tr>
<tr>
<td>Bushing, Tamper, 1-1/4&quot;</td>
<td>Steel 1-1/4&quot; od, 1&quot; id x 3/4&quot; long steel bushing for tampers.</td>
<td>A-6030-Y04</td>
<td>0.1 lbs</td>
</tr>
<tr>
<td>Bushing, Tamper, 1-1/2&quot;</td>
<td>Aluminum-Bronze 1-3/4&quot; od, 1-1/2&quot; id x 1-3/4&quot; long aluminum-bronze clamp bushing for tampers, with external grease groove.</td>
<td>Z-683436-IPS</td>
<td>0.38 lbs</td>
</tr>
<tr>
<td>Bushing, Tamper, 1-3/4&quot;</td>
<td>Bronze 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>Z-683436-IPS</td>
<td>0.38 lbs</td>
</tr>
</tbody>
</table>
### MAINTENANCE OF WAY PARTS

**TAMPERS/TIE EXCHANGERS**

<table>
<thead>
<tr>
<th>Bushing Type</th>
<th>Part #:</th>
<th>Weight:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bushing, Tamper, 1-3/4”</strong>, Phenolic</td>
<td>A-1856-T04</td>
<td>0.05 lbs.</td>
</tr>
<tr>
<td><strong>Bushing, Tamper, 2-1/16”</strong>, Aluminum-Bronze</td>
<td>Z-68316-01-IPS</td>
<td>0.25 lbs.</td>
</tr>
<tr>
<td><strong>Bushing, Tamper, 3-1/4”</strong>, Steel</td>
<td>Z-762754-001</td>
<td>1.3 lbs.</td>
</tr>
<tr>
<td><strong>Bushing, Tamper, 3-1/4”</strong>, Aluminum-Bronze</td>
<td>Z-68316-01-IPS</td>
<td>0.25 lbs.</td>
</tr>
<tr>
<td><strong>Bushing, Tamper, 5”</strong>, Aluminum-Bronze</td>
<td>0-3652060-0-01</td>
<td>3 lbs.</td>
</tr>
<tr>
<td><strong>Bushing, Tie Exchanger, 3”</strong>, Steel</td>
<td>A-5043-Y01</td>
<td>1.8 lbs.</td>
</tr>
<tr>
<td><strong>Bushing, VIBRATOR, 2-1/4”</strong>, Bronze</td>
<td>Z-68273</td>
<td>2.4 lbs.</td>
</tr>
<tr>
<td><strong>Bushing, VIBRATOR, 3-1/8”</strong>, Bronze</td>
<td>Z-68287</td>
<td>2.4 lbs.</td>
</tr>
</tbody>
</table>

**Bushing, Tamper, 1-7/8”**, Aluminum-Bronze

Part #: Z-68322-01-IPS

Weight: 0.3 lbs.

**Bushing, Tamper, 3”**, Steel

Part #: Z-68288-01

Weight: 1.75 lbs.

**Bushing, Tamper, 3-3/8”**, Bronze

Part #: Z-68287

Weight: 2.4 lbs.

**Bushing, VIBRATOR, 3-1/8”**, Aluminum-Bronze

Part #: Z-68287-IPS

Weight: 1.8 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.

**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.

**EXTENSION ARM**
Extension beam weldment for a tamper machine or tie inserter.
Part #: G3369-WAA  Weight: 44 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-IV & Electric.
Part #: 0-1302117-0-01  Weight: 2.7 lbs.

**HOOK ASS’Y, TR1**
Hook assembly for tie exchangers, machined from 3/4” AR100 plate. 8-1/8” x 3” and painted.
Part #: A-2399-YAA  Weight: 2.8 lbs.

**HOOD WELDMNT, LH**
Part #: A-5697-YAB  Weight: 10.4 lbs.

**Hook Ass’y, Tamper**
1” thick heavy-duty steel steel hooks in assembly for tamper machines, 13-3/4” long, connected by two steel bars and painted safety yellow.
Part #: 0-2300097-0-01  Weight: 17.7 lbs.
MAINTENANCE OF WAY PARTS

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

KEY, TAMPER, 1/4”★
1/4” thick x 3/8” wide x 3” long steel key for tamper machines.
Part #: Z-15892-S  Weight: 0.1 lbs.

LINK, TAMPER
6” x 2-1/2” x 11/16” T1 steel tamper link for Mk II & III tampers and TRJ/10 tampers. Two 1” diameter holes.
Part #: Z-683435  Weight: 3 lbs.

LOCK PLATE, TAMPER
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.

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

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, 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, RH
Reinforced right 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-W03-IPS  Weight: 118 lbs.

LEVER ASSEMBLY★
Lever assembly for the traction valve assemblies of Mk II tampers.
Part #: Y-711173-02A  Weight: 2.45 lbs.

Ore trains in Sweden traveling down to the coast generate five times the amount of electricity they use, powering nearby towns and the return trip for other trains.
### Locking Nut

3-7/16" od x 1-1/8" high specialised locking nut for tamper workhead leg shafts. Supplied with six 10-32 x 7/8" socket head cap screws installed. 2-1/2" NF internal thread.

Part #: A-3476-Y03  
Weight: 1.2 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-YAA-IPS  
Weight: 50 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 #: 0-1305738-1-01-IPS  
Weight: 17.6 lbs.

### Pad, Nylon Stop

8-13/16" x 2-5/16" x 3/4" (widest) nylon stop pad for tampers.

Part #: 0-1304826-0-02  
Weight: 0.17 lbs.

### 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.

### Pad, Nylon Stop

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.

### Pad, Hard-Faced Slide Support

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 units required per workhead (2 per side).

Part #: C0694XAA  
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 units required per workhead (2 per side).

Part #: C0694XAA  
Weight: 3 lbs.

### Pad, Slide Ass’y, Rear

Rear 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 #: G0851-YAA  
Weight: 1.3 lb.

### 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.

### 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 units required per workhead (2 per side).

Part #: C0692X01  
Weight: 3 lbs.

### Pad, Nylon 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.
### PIN, AXLE ROLLER, 1" DIA.
1" diameter x 6-3/4" steel pin used on the combination clamp system on tampers. 1/8" grease fitting.
- Part #: D6987X01
- Weight: 1.4 lbs.

### PIN, AXLE ROLLER, 1-1/2" DIA.
1-1/2" diameter x 7-5/16" steel pin used on the combination clamp system on tampers. 1/8" grease fitting.
- Part #: D6987X02
- Weight: 3.45 lbs.

### PIN, BIAS PAD, 2" X 11-13/16"
2" diameter x 11-3/16" robust alloy steel guide pin for bias pads on tampers.
- Part #: 0-3095002-0-09
- Weight: 10.4 lbs.

### PIN, CLAMP HOOK, 1" X 3-3/4"
1" diameter x 3-3/4" long combination clamp hook assembly pin for tampers, with one retaining clip keyway at each end.
- Part #: A-4823-Y01
- Weight: 0.81 lbs.

### PIN, CLAMP, 1-1/2" X 9-1/4"
1-1/2" diameter x 9-1/2" long clamp pin for tampers. Two 1/4" pin holes.
- Part #: Z-683437
- Weight: 4.6 lbs.

### PIN, EXTRACTOR, 2-1/2" X 6-1/4"
2-1/2" diameter x 6-1/4" long extractor pin with machined slot on one end for tie exchangers.
- Part #: A-4899-Y01
- Weight: 9 lbs.

### PIN, HEAVY-DUTY EXTRACTOR, TR10
2-1/2" diameter x 6-3/8" long heavy-duty extractor pin, weld-mounted on 5-1/2" x 3" x 1/2" alloy steel plate for tie exchangers.
- Part #: B-9438-YAB-IPS
- Weight: 10 lbs.

### PIN, MAIN PIVOT, 2-3/4" X 15"
2-3/4" diameter x 15" long heavy-duty main pivot pin, with a 2-7/8" alloy steel ring welded to a 1/2" x 5-1/4" diameter shoulder plate. 18" overall length.
- Part #: Z-763104-A
- Weight: 7.6 lbs.

### PIN, PIVOT, BIAS CYLINDER
1-1/2" diameter x 8" long bias cylinder pivot pin for tampers. 3" diameter washer head with six holes, unit comes complete with grease nipple and lubrication groove.
- Part #: 0-2305775-0-01
- Weight: 4.2 lbs.

### PIN, PUSH & PULL, 3/4" X 3-3/4"
3/4" diameter x 3-3/4" long pin for tampers with two 3/16" hairpin hole.
- Part #: Z-683430
- Weight: 0.46 lbs.

### PIN, PUSH & PULL, 3/4" X 3-3/4" (IPS)
3/4" diameter x 3-3/4" long pin for tampers with 1-1/4" od shoulder. 3/16" hairpin hole.
- Part #: Z-683430-IPS
- Weight: 0.53 lbs.

### PIN, SHADOW BOARD LOCK, 3/4" X 3-1/2"
3/4" diameter x 3-1/2" long shadow board lock pin for tampers, with one 1/4" hairpin hole. One end of this pin is chamfered, the other has a 5/16" NF internally threaded hole.
- Part #: 0-1406298-0-01
- Weight: 0.4 lbs.

### PIN, SQUEEZE CYLINDER, 1" X 3-1/2"
1" diameter x 3-1/2" long pin for squeeze cylinders on tampers.
- Part #: Z-68440-02
- Weight: 0.78 lbs.
## MAINTENANCE OF WAY PARTS

**PIN, TAMPER, 5/16” X 5/8”**
5/16” diameter x 5/8” long steel dowel pin for tampers.
Part #: 0-3015001-0-14  Weight: 0.03 lbs.

**PIN, TAMPER, 1” X 3-3/4”**
1” diameter x 3-3/4” long steel clamp cylinder rod end for tampers.
Part #: 0-3095002-0-14  Weight: 1 lb.

**PIN, TAMPER, 1-1/2” X 5-1/8”**
1-1/2” diameter x 5-1/8” long steel bias cylinder pin for tampers. Two 1/4” pin holes.
Part #: 0-1305774-0-01  Weight: 2.4 lbs.

**PIN, TAMPER, 1-1/2” X 6-3/4”**
1-1/2” diameter x 6-3/4” long steel pin for tampers, with two 1/4” pin holes.
Part #: Y-691328-055  Weight: 3.29 lbs.

**PIN, TAMPER, 1-1/2” X 9-5/8”**
1-1/2” x 9-5/8” steel pin for tampers, with two 1/4” pin holes.
Part #: Z-683411-01  Weight: 4.7 lbs.

**PIN, TIE EXCHANGER, 1-1/4” X 4-3/16”**
1-1/4” diameter x 4-3/16” long steel pin for tie exchangers, with machined slot at head. TR1 & 10.
Part #: A-4900-Y01  Weight: 1.44 lbs.

**PIN, TRANSMISSION MOUNT, MODIFIED**
Modified transmission mount pin assembly; this replaces the previous assembly of (1) MK-250010-270, (2) MK-MT223-B, & (2) MK-153140-820
Part #: 250010-270M  Weight: 2.5 lbs.

**PIN, TAMPER, 1” X 2-3/16”**
1” diameter x 2-3/16” long steel pivot pin for tampers, with 1/16” x 3/16” slot.
Part #: Z-753872-001  Weight: 0.5 lbs.

**PIN, TAMPER, 1” X 5”**
1” diameter x 5-5/8” long (to shoulder) steel clamp cylinder barrel shoulder pin for tampers. 5” overall length with 3/4” diameter modified shoulder.
Part #: 0-3095002-0-11-IPS  Weight: 1.06 lbs.

**PIN, TAMPER, 1-1/2” X 5-1/4”**
1-1/2” diameter x 5-1/4” long steel pin for tampers, with two 1/4” pin holes.
Part #: Y-691328-056  Weight: 2.6 lbs.

**PIN, TAMPER, 1-1/2” X 7-7/8”**
1-1/2” diameter x 7-7/8” long high strength steel pin with two 1/4” pin holes, used on the barrel end of the jack cylinder on tampers.
Part #: A7163T66  Weight: 3.9 lbs.

**PIN, TAMPER, 1-1/2” X 9-5/8”**
1-1/2” x 9-5/8” steel pin for tampers, with two 1/4” pin holes.
Part #: A-5087-Y01  Weight: 0.2 lbs.

**PIN, VIBRATOR**
1-13/16” (widest diameter) x 5-7/8” vibrator pin for tampers. Two machines keyways and 1-3/4” NF threaded end.
Part #: Y-68313-01  Weight: 3.2 lbs.
MAINTENANCE OF WAY PARTS

**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 SHAFT, TAMPER WORK HEAD, LONG**
1-3/4” x 16-1/2” long 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**
1-3/4” x 12” long high-strength shaft complete with grease nipple, nylock nut and washer, for Mk IV tampers.
Part #: 4-2400264-0-01 Weight: 8 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**
A heavy-duty steel weldment designed for tie exchangers - lock arm shipped unattached.
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, 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.
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.

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 #: Y-750970-01-001-IPS Weight: 4 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.

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 #: W-683484-L Weight: 175 lbs.

RAIL CLAMP ASS'Y, RIGHT
This is a COMPLETE clamp assembly including all pins, clamps, wear plates, links, etc. for the RIGHT side of tamper models MKII-V, TR1 and TR10.
Part #: W-683484-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.

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.

RING, WIPER★
Wiper ring for vibrator bushings (part # Z-68287).
Part #: L40525 Weight: .01 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 #: 0-3652049-0-03 Weight: 2.3 lbs.

ROD, GUIDE, 2-1/2” X 41-3/8”
2-1/2" diameter x 41-3/8" long guide rod for tampers.
Part #: 0-1404016-0-01 Weight: 55 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 #: 0-2203041-0-01 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 #: A-6233-X01 Weight: 115 lbs.
MAINTENANCE OF WAY PARTS

ROD, TAMPER PUSH, 1-1/2" X 21-1/2"
1-1/2" x 2" x 21-1/2" long push rod for tampers. Comes complete with Link Bushing (Z-683434) installed.
Part #: Y-683439 Weight: 20 lbs.

ROD, TAMPER PULL, 2-1/2" X 27"
2-1/2" x 2-1/2" x 25" long pull rod for tampers. Comes complete with Link Bushing (Z-683434) installed.
Part #: Y-683440 Weight: 22 lbs.

ROLLER ASS’Y
Roller assembly for tampers, comprised of one roller (A-1676-Y01) and one brass bushing (0-3652009-0-26).
Part #: A-1681-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 #: 0-2305761-0-01 Weight: 12 lbs.

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.

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, 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.

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

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.

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.

SHOCK MOUNT, 1-3/4" X 1-1/4"
1-1/4" od rubber shock mount with 1-3/4" od foot, mounted on a 1/2" id steel bushing, for tamper machines.
Part #: Z-766673-001-IPS Weight: 0.1 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.

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.

SHAFT, WHEEL
1-3/16" diameter x 7-3/8" long alloy steel modified wheel shaft for Harsco tampers/tie exchangers. Shaft has a 1" long 3/4" NC threaded end with lubrication channel.
Part #: Z-683432 Weight: 1.85 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.
Part #: Z-683432-IPS Weight: 2.2 lbs.

SHIM, GUIDE ROD, .010
Shims used to position guide rods for tampers. 0.010" Thick x 1-3/8" id x 2-7/16" od.
Part #: Z-68373-8

SHIM, GUIDE ROD, .060
Shims used to position guide rods for tampers. 0.060" Thick x 1-3/8" id x 2-7/16" od.
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.
MAINTENANCE OF WAY PARTS

**SPACER, SWIVEL BRACKET, 2-1/4”, STEEL**
2-1/4” od, 1-13/16” id x 2-7/16” long steel spacer for tampers. This spacer goes between two bronze bushings (part # Z-68273) on swivel brackets.
Part #: Z-68891  Weight: 1 lb.

**SPACER, TAMPER, 1-1/4”, STEEL**
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  Weight: 0.05 lbs.

**SPACER, TAMPER, 1-3/8”, STEEL**
1-3/8” od, 7/8” id x 5/8” long steel spacer for tampers.
Part #: Z-752200  Weight: 0.15 lbs.

**SPACER, TIE EXCHANGER, NYLON**
12-1/2” x 5” x 1/2” nylon spacer for tie exchangers.
Part #: A-5019-Y01  Weight: 1.4 lbs.

**SPINDLE**
Graduated tamper spindle with 3-1/4” threaded end with keyway at one end opposite a 8-3/4” flange with 10 mounting holes.
Part #: 0-1300612-0-07  Weight: 20 lbs.

**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.

**SPRING, TAMPER, 1”, STEEL**
1” od, 13/16” id x 3/16” thick steel thrust 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 Harsco tampers.
Part #: Z-682674-IPS  Weight: 0.05 lbs.

**SPACER, TAMPER, 1-3/8”, STEEL**
1-3/8” od, 7/8” id x 3/8” thick steel spacer for tampers.
Part #: Z-752199  Weight: 0.09 lbs.

**SPACER, TAMPER, 1-15/32”, PHENOLIC**
1-15/32” od, 1” id x 1/8” thick phenolic thrust spacer for tamper machines.
Part #: Z-682676  Weight: 0.01 lbs.

**SPINDLE, MAIN, 1-5/8” X 24-1/2”, STAINLESS STEEL**
1-5/8” diameter x 24-1/2” long main spindle for tampers. Made from durable stainless steel this spindle has 15-1/4” of 1-1/4” thread and a 5/16” internally threaded recess.
Part #: X-684211-SS  Weight: 9.5 lbs.

**SPRING, TAMPER, 2”**
2” diameter x 2-1/2” long compression spring for tamper machines. 9/32” flattened wire coil, 5 coils. Mk II & Electro.
Part #: L-424653  Weight: 0.8 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>Part</th>
<th>Description</th>
<th>Weight</th>
</tr>
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<tbody>
<tr>
<td>1a</td>
<td>Y-684448-01 Swivel Bracket, Tamper Vibrator Carrier (complete), includes:</td>
<td>52 lbs.</td>
</tr>
<tr>
<td>1b</td>
<td>B-7487-Y01-IPS Bushing, Tamper, 2-1/4&quot;, Steel</td>
<td>0.9 lbs.</td>
</tr>
<tr>
<td>1c</td>
<td>L411694 Grease Nipple Fitting</td>
<td>0.01 lbs.</td>
</tr>
<tr>
<td>2a</td>
<td>5007907 Pin Ass'y, Pivot, Long (complete), includes:</td>
<td>11 lbs.</td>
</tr>
<tr>
<td>2b</td>
<td>5007783 Pin, Pivot, Long, 1-3/4&quot; x 14-7/8&quot;, HD Mk IV Tamper</td>
<td>11 lbs.</td>
</tr>
<tr>
<td>2c</td>
<td>5007872 Keeper, Anti-Rotation, HD Mk IV Tamper</td>
<td>11 lbs.</td>
</tr>
<tr>
<td>2d</td>
<td>H3948Y04 Lock Washer, Disc, 3/4&quot;</td>
<td>11 lbs.</td>
</tr>
<tr>
<td>2e</td>
<td>H3948Y05 Lock Washer, Disc, 1/2&quot;</td>
<td>11 lbs.</td>
</tr>
<tr>
<td>2f</td>
<td>5007906 Bolt, Hex Head, 3/4&quot; x 1-1/2&quot;, w/grease nipple hole</td>
<td>11 lbs.</td>
</tr>
<tr>
<td>2g</td>
<td>L411694 Grease Nipple Fitting, 1/8&quot; NPT</td>
<td>11 lbs.</td>
</tr>
<tr>
<td>2h</td>
<td>5007905 Bolt, Hex Head, 1/2&quot; x 1-1/2&quot;</td>
<td>11 lbs.</td>
</tr>
<tr>
<td>2i</td>
<td>5007873 Washer, Pivot Pin</td>
<td>11 lbs.</td>
</tr>
<tr>
<td>3a</td>
<td>5007782 Pin, Pivot, Short, 1-3/4&quot; x 10-1/2&quot;, HD Mk IV Tamper</td>
<td>11 lbs.</td>
</tr>
<tr>
<td>3b</td>
<td>5007872 Keeper, Anti-Rotation, HD Mk IV Tamper</td>
<td>11 lbs.</td>
</tr>
<tr>
<td>3c</td>
<td>5007905 Bolt, Hex Head, 1/2&quot; x 1-1/2&quot;</td>
<td>11 lbs.</td>
</tr>
<tr>
<td>3e</td>
<td>H3948Y05 Lock Washer, Disc, 1/2&quot;</td>
<td>11 lbs.</td>
</tr>
</tbody>
</table>

**Bracket, Swivel**

This swivel bracket for Harsco tampers is made from cast steel and comes fully equipped with steel bushings. *for full assembly information see p. 55

**Part #: Y-684448-01**  **Weight:** 52 lbs.

**Bushing, Tamper, 2-1/4”, Steel**

2-1/4” od, 1-3/4” id x 2” long hardened steel bushing for tamper workheads and swivel brackets. Modified to hold an extra grease groove for better wear prevention and maintenance.

**Part #: B-7487-Y01-IPS**  **Weight:** 0.9 lbs.

**Grease Nipple Fitting**

Grease nipple fitting for pivot pin assembly 5007907.

**Part #: L411694**  **Weight:** 0.01 lbs.

**Pivot Pin Ass’y, Long**

Complete 1-3/4” diameter x 14-7/8” long long pivot pin assembly for Mk IV HD tampers.

**Part #: 5007907**  **Weight:** 11 lbs.
**MAINTENANCE OF WAY PARTS**

**PIN, PIVOT, LONG, 1-3/4” X 14-7/8”**
1-3/4” diameter x 14-7/8” long tamper pin for tamper machines. Mk IV HD.
Part #: 5007783  Weight: 9.6 lbs.

**LOCK WASHER, DISC, 3/4”**
Disc lock washer for pivot pin assembly 5007907
Part #: H3948Y04  Weight: 0.03 lbs.

**BOLT, HEX HEAD, 3/4” X 1-1/2”, W/GREASE NIPPLE HOLE**
3/4” x 1-1/2” hex cap screw with grease nipple hole for pivot pin assembly 5007907.
Part #: 5007906  Weight: 0.25 lbs.

**WASHER, PIVOT PIN**
Pivot pin washer for pivot pin assembly 5007907.
Part #: 5007873  Weight: 0.34 lbs.

**KEEPER, ANTI-ROTATION, MK IV TAMPER**
3” x 3-5/16” anti-rotation keeper for the Mk IV HD tamper.
Part #: 5007872  Weight: 0.76 lbs.

**LOCK WASHER, DISC, 1/2”**
Disc lock washer for pivot pin assembly 5007907
Part #: H3948Y05  Weight: 0.03 lbs.

**BOLT, HEX HEAD, 1/2” X 1-1/2”**
1/2” x 1-1/2” hex cap screw for pivot pin assembly 5007907.
Part #: 5007905  Weight: 0.1 lbs.

**PIN, PIVOT, SHORT, 1-3/4” X 10-1/2”**
1-3/4” diameter x 10-1/2” long pin for tampers.
Part #: 5007782  Weight: 7.0 lbs.
MAINTENANCE OF WAY PARTS

**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**
4-1/2” long tamper stabilizer compression spring for tamper machines. 7/16” spring steel with six coils over length, used in stabilizer cylinders.
Part #: 0-3641000-0-19  Weight: 1.8 lbs.

**ROD ASS’Y**
Rod assembly used in upper tamper stabilizer assemblies (part # 0-2202632-0-01-U).
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.

**WASHER, DISC SUPPORT, 2-3/4”, STEEL**
2-3/4” od, 1-3/4” id x 1/16” thick steel disc support washer for tampers.
Part #: 0-1400103-0-01  Weight: 0.06 lbs.

**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.
## MAINTENANCE OF WAY PARTS

### WASHER, INSULATOR, 2”, PHENOLIC
2” od, 1” id phenolic insulator bushing for tampers. 1/8” thick.
- Part #: Z-63081-01
- Weight: 0.02 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”, STEEL
2” od, 1-1/32” id steel washer for tamper machines. 16 gauge. Used in combo clamp hook assembly.
- Part #: A-4823-Y01b
- Weight: 0.05 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.

### WASHER, TAMPER, 2-1/8”, BRASS
2-1/8” od, 1” id brass pump sealing washer for hydraulic heads of tampers. 1/8” thick.
- Part #: Z-687027
- Weight: 0.1 lbs.

### WASHER, TAMPER, 3-1/4”, NYLON
3-1/4” od, 1-5/16” id nylon insulator washer for tamper/compactor machines. 1/16” thick.
- Part #: 0-1306629-0-01
- Weight: 0.02 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.

### WORKHEAD FRAME, CARRIER SUPPORT
Carrier support workhead frame for Harsco Mk IV tamper machines.
- Part #: A-5287-VAA
- Weight: 550 lbs.

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

### SUPPORT, WORKHEAD FRAME, RH
Workhead frame support, right hand, for tampers.
- Part #: C0698VAB
- Weight: 48 lbs.
MAINTENANCE OF WAY PARTS

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

BOARD, 16 CHANNEL OUTPUT, W/ JUMPERS, REBUILT (EXCHANGE ONLY)
Rebuilt VME Smart I/O board, 16 channel driver with jumpers for Harsco Mk IV tampers.
Part #: G-1622-YAB

BOARD, 16 CHANNEL OUTPUT, W/O JUMPERS, REBUILT (EXCHANGE ONLY)
Rebuilt VME Smart I/O board, 16 channel driver without jumpers for Harsco Mk IV tampers.
Part #: G-1622-YAA

BOARD, 2170, REBUILT (EXCHANGE ONLY)
Rebuilt 2170 board for receiving operator keypad/switch signals on Harsco Mk IV tampers.
Part #: B-0841-XAA

BOARD, 486, REBUILT (EXCHANGE ONLY) ★
Rebuilt 486 board for Mk IV tampers.
Part #: D-4693-Y01

BOARD, 9100, REBUILT (EXCHANGE ONLY)
Rebuilt 9100 board for Harsco Mk IV tampers with VME board.
Part #: A-6471-WAD

BOARD, BRIDGE DRIVER, REBUILT (EXCHANGE ONLY)
Rebuilt bridge driver CPU board for Harsco Mk IV tampers.
Part #: H-5614-Y01

BOARD, CPU OUTPUT, REBUILT (EXCHANGE ONLY)
Rebuilt output board for receiving signals from switches on Mk III Harsco Tampers. C/H PM10A Input. This is an R&R part.
Part #: 0-2305350-0-01 R&R

BOARD, ANALOG INTERFACE, REBUILT (EXCHANGE ONLY)
Rebuilt analog interface between potentiometers/transducers and VME computer. This is an R&R part.
Part #: B-2662-WAH R&R

BOARD, CPU INPUT, REBUILT (EXCHANGE ONLY)
Rebuilt input board for receiving signals from switches on Mk III Harsco Tampers. C/H PM10A Input. This is an R&R part.
Part #: 0-2305347-0-01 R&R
MAINTENANCE OF WAY PARTS

**BOARD, I/O MODULE, REBUILT (EXCHANGE ONLY)**
Rebuilt circuit board for A-0446-Y04 DC output modules on Harsco Mk IV tampers.
Part #: A-5482-Y03 Rebuilt

**BOARD, J42 POWER SUPPLY (EXCHANGE ONLY)**
Rebuilt J42 Box. J42 boxes have replaced previous P42 boards in new style G4 JAM (Jupiter Application Module) boxes for Mk IV Harsco Tampers.
Part #: 4022694 R&R Weight: 1 lb.

**BOARD, J42 POWER SUPPLY, R&R (EXCHANGE ONLY)★**
Rebuilt J42 Box. J42 boxes have replaced previous P42 boards in new style G4 JAM (Jupiter Application Module) boxes for Mk IV Harsco Tampers.
Part #: 4022695 Rebuilt

**BOARD, P42 PCB ASS’Y, REBUILT (EXCHANGE ONLY)**
Rebuilt P42 PCB assembly for Jupiter JAM power supplies on Harsco Mk IV tampers.
Part #: H-6430-XAD Rebuilt

**BOARD, P42 POWER SUPPLY, R&R (EXCHANGE ONLY)★**
Rebuilt P42 board for Jupiter JAM power supplies on Harsco Mk IV tampers.
Part #: H-6430-XAA R&R Weight: 1 lb.

**BOARD, POWER SUPPLY CONTROLLER, REBUILT**
Rebuilt Allen Bradley power supply controller for Harsco Mk III Tampers. This is an R&R part.
Part #: 0-2305311-0-01 R&R

**BOARD, P2 BACKPLANE, R&R (EXCHANGE ONLY)★**
Rebuilt P2 backplane board for Mk IV tampers.
Part #: D-5644-XAB R&R

**BOARD, PCB, REBUILT (EXCHANGE ONLY)**
Rebuilt double-barrel receiver circuit board for Harsco Mk IV tampers.
Part #: H-6752-XAD Rebuilt

**BOARD, POWER SUPPLY CONTROLLER, REBUILT**
Rebuilt power supply for MKIV VME computer.
Part #: C-9286-Y01 Rebuilt

**BOARD, SCANNER, 128V INPUT (EXCHANGE ONLY)★**
Rebuilt 128V input scanner board for MKIV tampers.
Part #: H-6170-XAA Rebuilt

**BOARD, TAMPER RECEIVER/AMPLIFIER, REBUILT (EXCHANGE ONLY)**
Rebuilt computer board for receiving signals from surface and line photocells on Harsco Mk II & Mk III tampers.
Part #: C-2438-WAA Rebuilt
**BOARD, VME 1150 CPU, REBUILT (EXCHANGE ONLY)**
Rebuilt VME 1150 I/O board, optically coupled 64-bit, for Harsco Mk IV tampers. 24 V.
Part #: B-0840-XAA Rebuilt

**BOARD, VME BACKPLANE, REBUILT (EXCHANGE ONLY)**
Rebuilt interface between VME computer boards. This is an R&R part.
Part #: A-2662-WAE R&R

**BOARD, VME BACKPLANE, REBUILT (EXCHANGE ONLY)**
Rebuilt interface between VME computer boards. This is an R&R part.
Part #: A-2662-WAF R&R

**BOARD, VME CPU 110, REBUILT (EXCHANGE ONLY)**
Rebuilt CPU computer for Harsco Mk IV tampers. This part is superceded by part # C-0979-WAF Rebuilt.
Part #: C-0979-WAC Rebuilt

**BOARD, VME CPU 110, REBUILT (EXCHANGE ONLY)**
Rebuilt CPU computer for Harsco Mk IV tampers. Customers sending in a C-0979-WAC will receive an updated C-0979-WAF Rebuilt.
Part #: C-0979-WAF Rebuilt

**BOARD, VMI/VME 3113A, REBUILT (EXCHANGE ONLY)**
Rebuilt VMI/VME computer CPU board for Harsco Mk IV tampers.
Part #: G-8093-YAA Rebuilt

**BOARD, LAMP (EXCHANGE ONLY) ★**
Lamp board for Mk IV tampers.
Part #: 0-2306408-0-01 R&R
Weight: 0.2 lbs.

**CABLE SPLITTER/CONNECTOR, 2 FEMALE/1 MALE**
2 Female to 1 Male cable splitter/connector for Jupiter cable systems.
Part #: 414260

**JUPITER CABLE, M12 FEMALE/BARE**
M12 Female/Bare Jupiter cable.
Part #: 4022333-IPS (3 m)
Part #: 4022334-IPS (5 m)
Part #: 3405078-IPS (7 m)
Part #: 4015775-IPS (10 m)

**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
MAINTENANCE OF WAY PARTS

JUPITER CABLE, M12 MALE/18 MM HYDRAULIC DIN/DIODE
M12 Male/18 mm Hydraulic DIN/Diode Jupiter cable.
Part #: 4022336-IPS (1 m)
Part #: 4022346-IPS (2 m)
Part #: 4022338-IPS (3 m)
Part #: 4022341-IPS (7 m)
Part #: 4022342-IPS (10 m)

JUPITER CABLE, M12 MALE/BARE
M12 Male/Bare Jupiter cable.
Part #: 3401339-IPS (4 m)
Part #: 3401332-IPS (10 m)

JUPITER CABLE, M12 MALE/FEMALE
M12 Male/Female Jupiter cable.
Part #: 3401324-IPS (1 m)
Part #: 3401325-IPS (2 m)
Part #: 3401326-IPS (3 m)
Part #: 3401327-IPS (5 m)
Part #: 3401336-IPS (6 m)
Part #: 3401328-IPS (7 m)
Part #: 3401329-IPS (10 m)

JUPITER CABLE, M12 MALE/HYDRAULIC DIN CONNECTOR
M12 Male/Hydraulic DIN Connector Jupiter cable.
Part #: 3401341-IPS (1 m) Also used as 4022353 cable.
Part #: 3401342-IPS (2 m) Also used as 4022354 cable.
Part #: 3401343-IPS (3 m) Also used as 4022353 cable.
Part #: 3401344-IPS (5 m) Also used as 4022356 cable.
Part #: 3401346-IPS (10 m) Also used as 4022358 cable.

JUPITER STRING POT, REBUILT
Rebuilt Jupiter string pot for sensing position of tamping tools on Harsco Mk IV tampers.
Part #: 0-3137013-0-14 R&R

JUPITER CABLE, M12 MALE/AIR VALVE DIN
M12 Male/Air Valve DIN Jupiter cable.
Part #: 4022369-IPS (2 m)
Part #: 4022370-IPS (3 m)
Part #: 4022371-IPS (5 m)
Part #: 4022375-IPS (10 m)

JUPITER CABLE, M12 MALE/DIN
M12 Male/DIN Jupiter cable.
Part #: 4022353-IPS (1 m)
Part #: 4022354-IPS (2 m)
Part #: 4022358-IPS (5 m)
Part #: 4022356-IPS (8 m)

JUPITER CABLE, M12 MALE/FEMALE NETWORK
M12 Male/Female Network Jupiter cable.
Part #: 4022325-IPS (1 m)
Part #: 4022326-IPS (2 m)
Part #: 4022327-IPS (3 m)
Part #: 4022329-IPS (7 m)
Part #: 4022331-IPS (10 m)

CHOPPER DISC, 24-SLOT
24-slot chopper disc for Harsco Mk IV tamper projector buggies.
Part #: Z-754020-A

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
### 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.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>2310090A</td>
<td>12 lbs</td>
</tr>
</tbody>
</table>

### Encoder Box, Optical, Rebuilt (Exchange Only)

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

<table>
<thead>
<tr>
<th>Part #</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-3160001-0-04</td>
<td>12 lbs</td>
</tr>
</tbody>
</table>

### Encoder Box, Optical

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

<table>
<thead>
<tr>
<th>Part #</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>5004402-IPS R&amp;R</td>
<td>12 lbs</td>
</tr>
</tbody>
</table>

### Fan Blade Mod

Jointed fan blade modification for Mk IV tampers.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>2339-Y01</td>
<td></td>
</tr>
</tbody>
</table>

### Filter Assy, Optical

Infra-red filter assembly for tamper machines.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>4007019-IPS</td>
<td>0.66 lbs</td>
</tr>
</tbody>
</table>

### Filter Assy, Infra-Red

Infra-red filter assembly for tamper machines.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y-684614</td>
<td>0.66 lbs</td>
</tr>
</tbody>
</table>

### G5 Jambox Processor Module

G5 Jambox processor module for signal coordination on Mk IV tampers.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>5015210</td>
<td>10 lbs</td>
</tr>
</tbody>
</table>

### Housing, Repair

Double barrel housing repair for tamper machines.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>4007013 Rebuilt</td>
<td></td>
</tr>
</tbody>
</table>

### Lens, Glass Projector, Infra-Red, 52mm

HOYA 52mm Infra-Red Glass Filter Lens for surface and line projectors. For Harsco Mk IV tamper.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>4028400</td>
<td></td>
</tr>
</tbody>
</table>

### Lens, Optical

Infra-red optical Lens for surface and line projectors, for Harsco Mk IV tampers.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>4007018-IPS</td>
<td></td>
</tr>
</tbody>
</table>
MAINTENANCE OF WAY PARTS

LIMIT SWITCH ASS’Y, REBUILT
Heavy-duty plug-in clamp frame limit switch with M12 cable connector for Harsco IV tampers. Side rotary standard, 1/2-14 NPT, and rated for -40° C.
Part #: H-5963-YAA Rebuilt

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

TAMPERS/TIE EXCHANGERS

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

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

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

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

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

STRING POT, VME, REBUILT★
Rebuilt Jupiter string pot for sensing position of tamping tools on Harsco Mk IV tampers.
Part #: 0-3137013-0-13 Rebuilt
### MAINTENANCE OF WAY PARTS

#### TAMPPERS/TIE EXCHANGE PARTS

**SWITCH, PRESSURE**
Transmission clutch pressure switch for Harsco Mk IV tampers. 1/4"-18 NPT male.

- **Part #:** A-7081-Y13

**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

**VOLTAGE REGULATOR, 127V AC (EXCHANGE ONLY)**
127V AC voltage regulator for Mk IV tampers.

- **Part #:** L-222797 R&R
- **Weight:** 1 lb.

**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, 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.

**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.

**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, GRIPPER ARM JAW**
Gripper arm jaw pin for TRIPP machines.

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

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

- **Part #:** 2203-9205-IPS
# Maintenance of Way Parts

## Kershaw Tie Crane

### Bushing, Tie Crane, 1-1/4", Steel

A 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 2-3/8"

A 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 3-7/16"

A 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 6-5/8"

A 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, 3/4" X 8"

A 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 2-1/2"

A 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"

A 1" diameter x 6-1/2" long steel pivot pin for tie crane machines. 1-1/2" diameter modified shoulder with one 1/4" pin hole.

- **Part #:** 53.0971-A
- **Weight:** 1.6 lbs.

### Pin, Tie Crane, 1" X 7-1/8"

A 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"

A 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"

A 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.

### Shaft, Tie Crane, 1" X 3-1/4"

A 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.
<table>
<thead>
<tr>
<th><strong>ADAPTER, 2”, STEEL</strong></th>
<th><strong>ANCHOR REMOVER, HD</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>2” od, 1” id x 2-7/16” long steel adapter, with 1/4” deep x 1/8” deep internal keyway.</td>
<td>Heavy-duty box style anchor remover with through-hardened rollers and heavy-duty alloy plate.</td>
</tr>
<tr>
<td>Part #: 7302-3000</td>
<td>Part #: 2310170A</td>
</tr>
<tr>
<td>Weight: 1.3 lbs.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>BOLT, HOOK ANCHOR</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>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).</td>
</tr>
<tr>
<td>Part #: 2310016A</td>
</tr>
<tr>
<td>Weight: 3.3 lbs.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>BUSHING, CRANE GRAPPLE, 1-3/4”, ALUMINUM-BRONZE</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
<tr>
<td>Part #: 135014407</td>
</tr>
<tr>
<td>Weight: 0.2 lbs.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>BUSHING, TAMPER, 7/8”, POLYMER</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>7/8” od, 3/4” id x 7/8” long polymer bushing for tamper machines.</td>
</tr>
<tr>
<td>Part #: 2209-3220</td>
</tr>
<tr>
<td>Weight: 0.01 lbs.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>BUSHING, TAMPER, 3”, BRONZE</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
<tr>
<td>Part #: 2213-1360</td>
</tr>
<tr>
<td>Weight: 1.2 lbs.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>CAP, PROTECTIVE</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Protective cap for rail fasteners (such as Pandrol clips) during concrete tie paving.</td>
</tr>
<tr>
<td>Part #: 12.222</td>
</tr>
<tr>
<td>Weight: 0.45 lbs.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>CLAMP, RAIL</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Rail clamp for manual tamper machines.</td>
</tr>
<tr>
<td>Part #: 300945</td>
</tr>
<tr>
<td>Weight: 7.2 lbs.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>CLIP, COURTING</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Courting clip for thermite welding applications.</td>
</tr>
<tr>
<td>Part #: 0806147A</td>
</tr>
<tr>
<td>Weight: 4.5 lbs.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>DRILL CHUCK</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Precision machined alloy steel drill chuck designed for quad drills with two set screws to lock drill bit in position.</td>
</tr>
<tr>
<td>Part #: 10210104-IPS</td>
</tr>
<tr>
<td>Weight: 1 lb.</td>
</tr>
</tbody>
</table>
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>2223210A</td>
<td>Drill Template, 80/85 lbs. Index Bar</td>
<td>For Stanley hydraulic drills, Crane Rail, 80/85 lbs. rail profiles.</td>
<td>0.6 lbs.</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>2223219A</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>2223218A</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.

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-28351  Weight: 0.4 lbs.

JOINT PLATE, FROG, 115 LBS.
4” x 6” frog joint plate with three 1-3/8” holes.

Part #: 2223306A  Weight: 6.4 lbs.

FISH PLATE
Fish plate used in joining continuous welded rail sections.

Part #: 2362001B  Weight: 9 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
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 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.

MISCELLANEOUS

GAUGE, FROG WEAR

6 mm thick stainless steel gauge for measuring wear on railroad frogs.

Part #: 4464050A  Weight: 0.3 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.

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

INSULATION KIT, TRACK MOTORCAR

For 1-7/16" Axle. This kit includes the insulation and regular washer.

Part #: M-8509  Weight: 0.2 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

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.

INSULATION KIT, TRACK MOTORCAR

For 1-7/16" Axle. This kit includes the insulation and regular washer.

Part #: M-8509  Weight: 0.2 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

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.
MAINTENANCE OF WAY PARTS

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"
40mm diameter x 18-1/8" long grapple pin used for 10 ton truck boom grapples.
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
40mm dia. x 7-1/2" long load truck grapple pin with 1-25/32" square retaining plate.
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" 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, TIE EXCHANGER, 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.

RAIL GRINDER ATTACHMENT
An innovative attachment to assist in grinding down rail after welding.
Part #: RGA3825  Weight: 27.5 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: 3.7 lbs.  Pin centres for this assembly are 5-3/8” apart.
- Part #: 818546 (5-3/4")  Weight: 2.4 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.

**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 #: 0808105A  Weight: 14.4 lbs.
- Part #: 0808105B (13” minimum to 21” maximum length).
- Part #: 0808105C (22” minimum to 34” maximum length).
- Part #: 0808105D (30” minimum to 46” maximum length).
- Part #: 0808105E (36” minimum to 56” maximum length).
- Part #: 0808105F (51” minimum to 75” maximum length).
- Part #: 0808105P (6” extension for Screw Jacks).
- Part #: 0808105Q (12” extension for Screw Jacks).

**SCREW JACK EXTENSION, 6”**
6” extension for Screw Jacks.
- Part #: 0808105P

**SCREW JACK EXTENSION, 12”**
12” extension for Screw Jacks.
- Part #: 0808105Q

**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.

**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.

**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.

**TAMPER HEAT SHIELD**
Heat shield for Stanley hydraulic tampers. This item comes complete with one 1/4”-20 NC x 4-1/2” grade 5 bolt and a 1/4”-20 stover nut.
- Part #: 2310003A  Weight: 2.4 lbs.
MAINTENANCE OF WAY PARTS

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

WEDGE, 18” X 2”, 1-1/2” THICK
Steel wedge, 18” long x 2” high, 1-1/2” thick. Used to hand-level rail for thermite welding crews.
Part #: 080 6110A  Weight: 7.6 lbs.

WEDGE, 13” X 3”, 1” THICK
Steel wedge, 13” long x 3” high, 1” thick. Used to hand-level rail for thermite welding crews.
Part #: 0806109A  Weight: 1 lb.

WEDGE, 10” X 2”, 1” THICK
Steel wedge, 10” long x 2” wide, 1” thick. Used to hand-level rail for thermite welding crews.
Part #: 0806107A  Weight: 2.8 lbs.

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, 13” X 3”, 1” THICK
Steel wedge, 13” long x 3” high, 1” thick. Used to hand-level rail for thermite welding crews.
Part #: 0806109A  Weight: 1 lb.

NEW!

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.

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

WEDGE, 18” X 2”, 1-1/2” THICK
Steel wedge, 18” long x 2” high, 1-1/2” thick. Used to hand-level rail for thermite welding crews.
Part #: 080 6110A  Weight: 7.6 lbs.

WEDGE, 13” X 3”, 1” THICK
Steel wedge, 13” long x 3” high, 1” thick. Used to hand-level rail for thermite welding crews.
Part #: 0806109A  Weight: 1 lb.

WEDGE, 10” X 2”, 1” THICK
Steel wedge, 10” long x 2” wide, 1” thick. Used to hand-level rail for thermite welding crews.
Part #: 0806107A  Weight: 2.8 lbs.

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.

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.

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.
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.

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

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

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

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

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

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

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)

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

POUCH, RAIL GAUGE, UNIVERSAL
Leather holster for all Uni- and Duo-Gauges.
Part #: 4464014A
BAR, CABOOSE, 31"
A high-carbon steel bar, 31” long, 1” diameter stock. Bent chisel tip at one end, tapering to a round point at the other.
Part #: 2310133A  Weight: 6.25 lbs.

BAR, CLAW, 60"
High-carbon steel claw bar, 60” long. Heat-treated, 7/8” slot size and meeting AREMA Plan 11-97.
Part #: 2310106A  Weight: 27 lbs.

BAR, DIAMOND POINT LINING, 60"
High-carbon steel lining bar, diamond point end, 60” long, manufactured to AREMA Plan 5-02.
Part #: 2310105A  Weight: 18 lbs.
Part #: 2310105B (66”)  Weight: 26 lbs.

BAR, LINING/CROW, WEDGE, 60"
A 60” long high-carbon steel lining bar with wedge point.
Part #: 2310105D  Weight: 18 lbs.

BAR, NIPPING
59-1/2” long (overall) nipping bar with 5” wide x 10” long curved paddle, used for manually levering up and re-aligning rail ties with their rails.
Part #: 4123-90  Weight: 18 lbs.

BAR, OFFSET PINCH, 48"
A 24” long multi-use high-carbon steel prybar.
Part #: 2310067A  Weight: 2.9 lbs.

BAR, SINGLE-TINE NIPPING
52” Single-tine nipping bar for ergonomic rail shifting.
Part #: 2310146A  Weight: 12.3 lbs.

BAR, PRY, 24"
A 24” long multi-use high-carbon steel prybar.
Part #: 2310067A  Weight: 2.9 lbs.

BAR, “JAVELIN” POINT TAMPING
The “Javelin” point tamping bar has a 62” long, 1-1/16” diameter high-carbon steel handle, with one spear-point end and one tamping end. A lightweight variant of 2310118B, painted safety orange.
Part #: 2310118C  Weight: 8.5 lbs.

BAR, CHISEL END TAMPING
A high-carbon steel bar, 61” long, 7/8” diameter stock, manufactured to AREMA Plan 14-02.
Part #: 2310118A  Weight: 15 lbs.

SPIKE PULLER, 4 BALL
A specialty tool designed to work in conjunction with IPS claw bars to pull rail spikes in areas with limited access.
Part #: SPB-9000  Weight: 2.5 lbs.

BAR, STANDARD JIMMY, 57"
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.
Part #: 2310134A

BAR, SPEAR POINT TAMPING
A high-carbon steel bar, 64” long, 7/8” diameter stock, with one spear-point end and one tamping end. Manufactured to AREMA Plan 15-02.
Part #: 2310118B  Weight: 15 lbs.
**HAND TOOLS**

**CLAW, HAND SPIKE, CURVED**
High-carbon steel spike removal claw. Heat treated 7/8” slot size and measuring 7-3/4” long.
- Part #: 2310135A
- Weight: 5.4 lbs.

**CLAW, SPIKE EXTRACTOR, “PIG’S FOOT”**
- Part #: 2310136A
- Weight: 7.2 lbs.

**CUT OFF WHEEL, RAIL SAW, HIGH-PERFORMANCE, 16”**
Flexovit zirconia grain 16” diameter high performance rail saw blade, for rail profiles 120 lbs. and up. Used primarily for cutting rail.
- Part #: F6685
- Weight: 2.25 lbs.
- Part #: F5685 (14”)

**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:

- **DRIFT PIN, 7/8” X 11”**
  - 11” long with a 7/8” diameter.
  - Ideal for 85 lbs. rails.
  - Part #: DP7811
  - Weight: 1.5 lbs.

- **DRIFT PIN, 1” X 11-1/2”**
  - 11-1/2” long with a 1” diameter.
  - Ideal for 100/115 lbs. rails.
  - Part #: DP1115
  - Weight: 2 lbs.

- **DRIFT PIN, 1-1/16” X 11”**
  - 11” long with a 1-1/16” diameter.
  - Part #: 2310002A
  - Weight: 2 lbs.

- **DRIFT PIN, 1-1/8” X 13”, “THORN”**
  - 13” with a 1-1/8” 4140 hex bar machined down to ~0.95” diameter for the last 5”. 38-42 Rockwell hardness, ideal for 136 lbs. rails.
  - Part #: DP11813
  - Weight: 1.8 lbs.

- **DRIFT PIN, 1-1/8” X 12”**
  - 12” long with a 1-1/8” diameter.
  - Ideal for 136 lbs. rails.
  - Part #: DP11812
  - Weight: 2.5 lbs.

- **DRIFT PIN, 1-3/8” X 19”**
  - 19” long with a 1-3/8” diameter.
  - Ideal for 132/136 lbs. rails.
  - Part #: DP13819
  - Weight: 4.2 lbs.

- **DRIFT PIN, 1-1/2” X 14”, FLATTENED**
  - 14” long with a 1-1/2” diameter.
  - Part #: DP13819

**NEW!**

**GRINDING STONE, 6” X 3”, 5/8”**
6” x 3”, 5/8”-11 drive, Flexovit type 1 reinforced grinding stone for rail grinding applications.
- Part #: N62895

**GRINDING STONE, 8” X 1”, 1”**
- Part #: N8058

**GRINDING STONE, 8” X 1”, 5/8”**
- Part #: N8059

**NEW!**

**NEW!**

**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.
### HAND TOOLS

**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.

**NEW!**

**THE BIG STIK**

Telescopic brake hook used to reach brake wheel.

- **Hook, Telescopic Brake, 24" - 42"**  
  **Part #: 0808875C**
- **Hook, Telescopic Brake, 39" - 62-1/2"**  
  **Part #: 0808875D**
- **Hook, Telescopic Brake, 49" - 81"**  
  **Part #: 0808875A**
- **Hook, Telescopic Brake, 67" - 104"**  
  **Part #: 0808875A-M**
- **Hook, Telescopic Brake, 49" - 81", Magnetic**  
  **Part #: 0808875B**
- **Hook, Telescopic Brake, 67" - 104", Magnetic**  
  **Part #: 0808875A-M**

**PANDROL TOOL, T-BAR**

42" long arm attached to 12-1/4" fulcrum arm with roller attachment. Painted safety yellow.

- **Part #: 2310042H**  
  **Weight:** 13.5 lbs.

**NEW!**

**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.
- **Handle, Clay Pick, 36"**  
  **Part #: 2310122A-01**  
  **Weight:** 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, 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.
**HAND TOOLS**

**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 B alloy steel as per AREMA Plan 19-02.

Part #: 2310120A  Weight: 9.5 lbs.

**RAIL ANCHOR APPLICATOR**
66” long rail anchor applicator hand tool. Mouth end has a 2-1/2” id.

Part #: 2310092A  Weight: 25 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. Available with 10 or 12 lb. head.

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.

**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.

**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.

**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, 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.

**Sledge Hammer, 8 lb., Heavy-Duty**
Part #: 2310121D  Weight: 9 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.

**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 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.

**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 also 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.

**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”**
This 42” lightweight tool is designed to safely, quickly and easily adjust the position of tie plates.

Part #: TPP-42S  Weight: 1.8 lbs.
HAND TOOLS

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

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

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   Weight: 6 lbs.

TIE TONG, CAST ALUMINUM

Efficient lightweight design for ease of use and long term performance. Ergonomic handles and designed with removable tips.

Part #: 2310108A   Weight: 7.5 lbs.

TIE TONG, MANUFACTURED ALUMINUM

Lightweight, ergonomic aluminum tongs designed for ease of use and long term performance. Supplied with removable tips.

Part #: 2310108C   Weight: 5 lbs.

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   Weight: 0.2 lbs.

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   Weight: 15 lbs.
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”

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.

GAUGE, 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.

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.

RAIL GAUGE, 54E1
Flat stainless steel gauge that measures the wear of 54E1 RE rail.
Part #: 4464052A Weight: 0.2 lbs.

It is possible to travel from Portugal to Vietnam solely by train. At 17,000 km, this is the longest train journey in the world.
HAND TOOLS

WRENCH, TRACK, SINGLE END, 1-1/4"
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.
Part #: 2310137A Weight: 16 lbs.

WRENCH, TRACK, SINGLE END, 1-7/16"
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.
Part #: 2310138A Weight: 16 lbs.

WRENCH, TRACK, SINGLE END, 1-5/8"
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.
Part #: 2310139A Weight: 16 lbs.

WRENCH, TRACK, SINGLE END, 1-13/16"
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.
Part #: 2310140A Weight: 16 lbs.

WRENCH, TRACK, SINGLE END, 2"
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.
Part #: 2310141A Weight: 16 lbs.

WRENCH, TRACK, SINGLE END, 2-3/16"
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.
Part #: 2310142A Weight: 16 lbs.

WRENCH, TRACK, DOUBLE END, 1-5/8" & 1-11/16"
Double-end track wrench with 1-5/8" and 1-11/16" ends. Powder-coated safety yellow.
Part #: 2310180A

WRENCH, TRACK, DOUBLE END, 1-11/16" & 1-13/16"
Double-end track wrench with 1-11/16" and 1-13/16" ends. Powder-coated safety yellow.
Part #: 2310181A

WRENCH, TRACK, DOUBLE END, 1-13/16" & 2-3/16"
Double-end track wrench with 1-13/16" and 2-3/16" ends. Powder-coated safety yellow. Used on rail frogs.
Part #: 2310182A

WRENCH, TRACK, DOUBLE END, 2" & 2-3/16"
Part #: 2310183A
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 STAND C/W ANCHOR

Removable 65” flag staff complete with heavy-duty anchor, for center-mounted flags.

Part #: FSA-65   Weight: 12 lbs.

FLAG STAND, TIE MOUNTED

Tie mounted flag stand designed for quick and easy set-up and removal with protective ‘snow boot’. For use with top-mounted blue flag (part # 2310027B) or red flag (part # 2310027F).

Part #: 2310028A   Weight: 19 lbs.

FLAG STAND, TIE MOUNTED, LIGHTWEIGHT

An economical and lightweight tie mounted flag stand, designed to be used with 18” x 12” flags. Designed to fold down when not in use, it may also be padlocked into either the upright or folded down position.

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.

Part #: 2310080A   Weight: 6 lbs.

FLAG STAND, RAIL MOUNTED, LIGHTWEIGHT

An economical and lightweight rail mounted flag stand designed to be used with multiple flag attachments and orientations. Quick and simple to attach and remove from any 100 - 141 lb. rail. Designed for use with 18” x 12” flags.

Part #: 2310037B   Weight: 6 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 41/2” deep with arm folded down, x 32” with arm extended.

Part #: 2310037C.K   Weight: 7 lbs.
**RAIL MOUNTED TELESOPIC 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.

Part #: 2310037H  Weight: 14 lbs.

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**FLAGS & STANDS**

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**FLAG STAND, RAIL MOUNTED, FOLDING LIGHTWEIGHT**

An economical and lightweight rail mounted folding flag stand designed to be used with multiple flag attachments and orientations. Quick and simple to attach and remove from any 100 - 141 lb. rail. Designed for use with flags with 8” centres.

Part #: 2310037FS  Weight: 11 lbs.

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**FLAGGING KIT**

IPS offers a flagging kit with one Nylon Red Flag and one wooden staff. Can also hold up to six Fusees - not included. Red Nylon flags and wooden staffs are also sold separately.

Part #: 0923165A  Weight: 3.4 lbs.

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**FLAG STAFF, WOOD**

26” long wood flag staff with split groove. Designed to be used with IPS Flagging Kit (part # 0923165A) or Nylon Red Flag (part # 0923165B).

Part #: 0923165C  Weight: 0.25 lbs.

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**FLAG STAND, RULE 42, RAILBASE MOUNTED**

Rule 42 flag stand, mounted from base of rails. Folds easily for transportation and holds 21” x 30” fabric flag (not included) via side gussets.

Part #: 2310177A  Weight: 28 lbs.

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**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.

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**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.

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**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 # 2310027BX). For use with tie mounted flag stand (part # 2310028A) or rail mounted flag stand (part # 2310037A).

Part #: 2310027B  Weight: 6 lbs.
**SAFETY PRODUCTS**

**FLAGS & STANDS**

**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, 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, RED NYLON, 29” X 20-1/2”**
Nylon red flag measuring 29” long x 20-1/2” wide, complete with sewn sleeve to insert staff and 2 grommets. 2” long wood flag staff (part # 0923165C) available separately.

Part #: 0923165B  
Weight: 0.25 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 #: 2310027F  
Weight: 6 lbs.

**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, RULE 42, RED & YELLOW ALUMINUM, 12” X 18”**
A reflective, red and yellow “Conditional Stop” warning flag. Lightweight aluminum, double-sided and measuring 18” x 12”.

*Please note this flag orients vertically, not horizontally.*

Part #: 2310027G  
Weight: 1 lb.

**FLAG, RED & YELLOW ALUMINUM, 12” X 18”, Single Side**
Part #: 2310027G-S  
Weight: 1 lb.
SAFETY PRODUCTS

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, “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, STOP SIGN, OCTAGONAL, 2’ X 2’
2’ x 2’ red, diamond-grade octagonal “STOP” sign with white lettering.
Part #: 2310027S  Weight: 5 lbs.

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.

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 block lettering.
Part #: 2310027N  Weight: 2 lbs.

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, 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 W/ HOLLOW DIAMONDS, 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, 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, “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, YELLOW/BLACK CHECK, AL, 20” X 20”, END OF TRACK
A reflective, yellow and black check “End of Track” warning flag. Lightweight aluminum, double-sided and measuring 20” x 20” square with mounting holes at 8” centers.
Part #: 2310027J-C  Weight: 3.2 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 block lettering.
Part #: 2310027N  Weight: 2 lbs.

FLAG, YELLOW/BLACK CHECK, AL, 20” X 20”, END OF TRACK
A reflective, yellow and black check “End of Track” warning flag. Lightweight aluminum, double-sided and measuring 20” x 20”, this flag is key-hole drilled to orient either vertically or horizontally.
Part #: 2310027J  Weight: 1 lb.
## SAFETY PRODUCTS

### FASTENER KIT, DERAIL FLAGS ★

Fastener kit for derail flags; consists of two 3/8”-16 x 1-1/4” Gr 5 HHCS, two 3/8” stover nuts, and four 3/8 USS flatwashers.

- **Part #: 2320027B-05**  
  **Weight:** 0.3 lbs.

### 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.

### SIGN, “2” TRACK, 8” X 9”, REFLECTIVE ★

8” wide x 9” high reflective silver-white sign with red number “2”. Used to indicate upcoming number of track crossings.

- **Part #: 2310027Q**  
  **Weight:** 0.3 lbs.

### SIGN, “3” TRACK, 8” X 9”, REFLECTIVE ★

Part #: 2310027Q-3  
**Weight:** 0.3 lbs.

### SIGN, “4” TRACK, 8” X 9”, REFLECTIVE ★

Part #: 2310027Q-4  
**Weight:** 0.3 lbs.

### SIGN KIT, NUMBER OF TRACKS, 2 ★

Sign kit is composed of one 9” x 8” number flag and one 27-1/4” wide x 8” high Rail Track emblem. Signs are mounted in an inverted “T” with a rail track emblem below the number indicating the number of tracks. This sign indicates 2 rail crossings. Red emblems in white background.

- **Part #: 2320030A**  
  **Weight:** 1 lb.

### SIGN KIT, NUMBER OF TRACKS, 3 ★

Part #: 2320030B  
**Weight:** 1.3 lbs.

### SIGN KIT, NUMBER OF TRACKS, 4 ★

Part #: 2320030C  
**Weight:** 1.3 lbs.

### 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 yellow circle flag/target 2320027A-01.

- **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, 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.

### 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, 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.
**SAFETY PRODUCTS**

**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 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” C1018 bar, painted flat black.

- **Part #: 2360023B**
  - Weight: 2 lbs.

**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: 0.25 lbs.
- **Part #: 2720 (Fusees)**
- **Part #: S-300 (Fusee Container)**

**MAST EXTENSION, SWITCH STAND, 19”**
Mast extension for a switch stand. 19” total length, 7/8” x 7/8” C1018 bar, painted flat black.

- **Part #: 2360023A**
  - Weight: 4 lbs.

**FASTENER KIT, SWITCH TARGETS**
Fastener kit for switch targets; consists of two 3/8-16” x 2” Gr 5 HHCS, two 3/8-16” stover nuts, and four 3/8 USS flat washers.

- **Part #: 2320027A-05**
  - Weight: 0.3 lbs.

**SWITCH STAND, 22E**
This is a heavy-duty trailable switch stand for high traffic locations. Flags can be switched manually via ergonomic tri-handle or automatically by passing wheel flanges.

- **Part #: 2360030A**
  - Weight: 275 lbs.

**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.

**POST, U-FLANGE, 10’, GALVANIZED**
10’ hot-dip galvanized U-flange post for signage/flags.

- **Part #: 2310064A**

**Hardware Kit, U-flange Post**
- **Part #: 2310064A-01**

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**P: 604.465.8994**
**WEB: railwayparts.com**
SAFETY PRODUCTS

FIXED DERAILS

Heavy-duty hinged and lockable derails in the following rail profiles:

- Derail, 70-110 lbs., Left
  Part #: PD-4L  Weight: 42 lbs.
- Derail, 70-110 lbs., Right
  Part #: PD-4R  Weight: 42 lbs.
- Derail, Bidirectional Hinged, 112-114 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 FLAG, BLUE

Blue and white derail flag for portable and hinged derails.

Part #: PD-1B-IPS  Weight: 1 lb.

DERAIL FLAG, RED

Red and white double sided derail flag for the PD-1-IPS portable derail.

Part #: PD-1R-IPS  Weight: 1 lb.

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 (2310160C) and “Derail” flag (PD-1B-IPS) not included.

Part #: PD-6L  Weight: 45 lbs.

DERAIL, LOW PROFILE, 80-141 LBS., RIGHT

Right hand lockable low-profile derail suitable for 80-141 lbs. rail. Profile sits 2-3/4” above rail. Staff (2310160C) and “Derail” flag (PD-1B-IPS) not included.

Part #: PD-6R  Weight: 45 lbs.

DERAIL W/ CROWDER, LEFT, NON-INSULATED ROD

Left hand derail with wheel crowder, connected with a non-insulated rod.

Part #: 2310166L-N

Derail w/ Crowder, Right, non-insulated Rod

Part #: 2310166R-N

OPERATING STAND, HI-RISE, W/ RED & WHITE FLAGS

High-rise operating stand with 8’-2” connecting rod and enameled red and white targets.

Part #: 2310167A  Weight: 180 lbs.
SAFETY PRODUCTS

PORTABLE DERAIL FLAG STAFF
48” Flag staff for the PD-1-IPS portable derail.
Part #: PD-1A-IPS  Weight: 7 lbs.

PORTABLE DERAIL FLAG STAFF, PD-4 & PD-5
48” Flag staff for the PD-4 and PD-5 portable derails.
Part #: PDF-LP  Weight: 5.5 lbs.

PORTABLE DERAIL WEDGE W/ CHAIN
Replacement wedge with chain for portable derailers.
Part #: PD-1W-IPS  Weight: 12 lbs.

STAFF, HEAVY DUTY DERAIL FLAG
Flag staff for the heavy duty lockable derail 2310160A (left) or 2310160B (right).
Part #: 2310160C  Weight: 4 lbs.

RAMP, BRIDGE RAIL TRANSITION
The bridge transition ramp is mounted to the equipment cars near the bridge rail tube. It flips over on to the bridge rail and helps the equipment wheels ramp up (transition) from the bridge to the bridge tube.
Part #: 0808153A

RERALIER, STRADDLE TYPE, 90-140 LB, LEFT
Straddle type rerailer, left hand, for 90-140 lbs. rail.
Part #: 2310165A  Weight: 169 lbs.

Reralier, Straddle Type, 90-140 lb, Right
Part #: 2310165B  Weight: 169 lbs.
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.

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.

LIGHT, AMBER LED, SMALL
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, BLUE LED, SMALL
Blue 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-25B  Weight: 0.3 lbs.
Replacement Lens, Blue, Small  Part #: MR-25B-L
Blue replacement lens for portable alert light MR-25B - Blue LED Light.

LIGHT, RED LED, LARGE
A 5-1/2” high, 360 degree red 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 lb.
Replacement Lens, Red, Small  Part #: MR-25R-L
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 b.

Light, Octagonal, Red
Part #: 2310068B    Weight: 1.5 b.

Light, Octagonal, Yellow
Part #: 2310068C    Weight: 1.5 b.

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.

TOTE BAG, SAFETY FALL RESTRAINT
This tote bag is designed to fit the 0923147A. Safety Fall Restraint.

Part #: 0923157A    Weight: 3 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. 4 mounting holes in base.

Part #: 2310061A    Weight: 2.5 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.

WARNING CHAIN POST, PORTABLE
Movable 42" high handrail post, ideal for locomotive platforms, painted safety red.

Part #: 0923152A    Weight: 18.4 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.

**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**
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 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.

**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.

**WEDGE CHOCK, 115# RAIL, LH**
Wedge style wheel chocks designed for 115 lbs. rail. Left Hand.
Part #: WCSW-115LH

**WEDGE CHOCK, 115# Rail, RH**
Part #: WCSW-115RH

**WHEEL CHOCK, EQUIPMENT CAR**
A welded steel chock designed to be wedged fast to a rail car in order to secure equipment cars on the rail.
Part #: WC-EC

**WEDGE CHOCK, 115# RAIL, LH**
Wedge style wheel chocks designed for 115 lbs. rail. Left Hand.
Part #: WCSW-115LH

**WEDGE CHOCK, 115# Rail, RH**
Part #: WCSW-115RH

**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.

**WHEEL CHOCK, SINGLE**
Single steel wheel chock for exposed rail.
Part #: WCS-4011-09
LOCOMOTIVE, CAR, PASSENGER

HOPPER PARTS

HATCH COVER, NON-VENTED
10-20" diameter hatch cover, non-vented, for Trinity Railcars.
Part #: RSAHC20TR  Weight: 12 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
Gate rack without stops for a hopper car. 23-1/2" x 3-3/4". Grey primer finish.
Part #: 2CH331-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 CAPSTAN, HANDLE OPERATING, W/ CAM
Hopper capstan for Autolok 2 with handle operated cam.
Part #: MKE-10080

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

HATCH COVER, VENTED
6-20" diameter hatch cover, vented, for Trinity Railcars.
Part #: VHXS98TR  Weight: 11 lbs.

HOPPER DOOR W/ STOPS
Gate rack with 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 PINION GEAR, AEX
Pinion gear for an AEX Hopper gate. Grey primer finish.
Part #: AEX-123-IPS

WRENCH, HOPPER HAMMER
Hammer wrench to loosen hopper gates that have become stuck closed.
Part #: 0808155A  Weight: 7.7 lbs.
CAR MOVER, BADGER HEAVY DUTY
A heavy-duty, cast steel hand tool designed to move freight and rail cars. An elongated toggle directs leverage to maximize horizontal thrust.
Part #: 249-BGR Weight: 20 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.

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.

PUNCH 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.

PUNCH 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.

PUNCH BAR, BRAKE PIN REMOVAL, 48"
A 48" long variant of part # 0923118A; a high-carbon steel bar designed for effective removal of locomotive brake pins.
Part #: 0923118B Weight: 11 lbs.

PUNCH BAR, BUCKEYE PIN RELEASE
Prybar designed for the release in-place of Buckeye pins. 65" long.
Part #: 2310058A Weight: 23 lbs.

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.

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.

HANDBOLD 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.

HOOK, BRAKE SHOE★
Brake shoe hook for safely removing brake shoes from underneath locomotive cars.
Part #: 0923182A Weight: 1.5 lbs.

PRY BAR, BRAKE SHOE, 42"
This 42" brake shoe pry bar is manufactured to safely and effectively replace freight car and locomotive brake shoes. This tool is used to pry the retainer key and shoe away from the wheel.
Part #: 2310015A Weight: 7 lbs.

PRY BAR, SHOE, 35"
A multi-use high-carbon steel prybar, primarily designed to free stuck shoes.
Part #: 2310057A Weight: 6.23 lbs.
LOCOMOTIVE, CAR, PASSENGER

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.

SPRING SUPPORT TOOL SET
Spring support tool set; this device holds the truck spring and associated hardware in place to allow removal of the journal box. 4 pcs. per set.
Part #: 0923120A  Weight: 28 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 refinishes 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.

YARD AIR TEST DEVICE
IPS specializes in repairing damaged air yard test devices and can also supply new yard air test devices. The Queen Mary device shown here is vital for charging pneumatic circuits on trains awaiting departure, testing the systems to confirm brake safety, preventing cars from running dry and reducing the dwell time of cars in a yard while hook-up is accomplished. This unit is manufactured with heavy-duty industrial fittings and valves with a 160 psi gauge, 3/4" diameter glad hands, and is fully sealed and leak tested.
Part #: 2310047A  Weight: 10 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.

COVER, HANDBRAKE SPINDLE, C/W LID★
Handbrake spindle cover for the MAC 90, complete with lid, locking screw and nut. Painted red.
Part #: 2223191A  Weight: 0.8 lbs.

The total area of contact between train wheels and rail is little longer than one silver dollar.
LOCOMOTIVE, CAR, PASSENGER

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.

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.

HOOK & EYE LATCH
These plated hook & eye latches are designed for locomotive toilet door interiors.
Part #: 2223187A  Weight: 0.15 lbs.

LIGHT MOUNT, DITCH, LH
3/16" steel left hand ditch light mount for GE locomotives. Overall dimensions 4" x 14-1/2" x 10-1/4", complete with box. Painted brick red.
Part #: 0923107A  Weight: 9 lbs.

LIGHT MOUNT, DITCH, RH
3/16" steel right hand ditch light mount for GE locomotives. Overall dimensions 4" x 14-1/2" x 10-1/4". Painted brick red.
Part #: 0923106A  Weight: 6.9 lbs.

HOUSING, DITCH LIGHT, LH
Left hand ditch light receptacle housing for GE locomotives.
Part #: 0923153B  Weight: 42 lbs

HOUSING, DITCH LIGHT, RH
Right hand ditch light receptacle housing for GE locomotives.
Part #: 0923153A  Weight: 22 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.

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
1" x 16" Schedule 80 pipe, curved and case hardened to .040 deep, for delivering sand for locomotives.
Part #: 2223131A  Weight: 2.32 lbs.
Pipe, Sand, w/ Washer
Part #: 2223130C  Weight: 4.4 lbs.

SAND DISCHARGE Y-PIPE, LONG RADIUS
A 4-1/2” od, 4” id internally case-hardened schedule 80 pipe fabrication designed to offer maximum abrasion resistance when unloading sand for locomotive traction from tank cars into storage bins. 32” high, 85” across.
Part #: 0806071A  Weight: 140 lbs.
### SAND CAR DISCHARGE Y-PIPE, SS ★
Stainless steel Y-Pipe used on sand cars. Rubber lined.
Part #: 0806138A  Weight: 51.5 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 TOWER Y-PIPE
3" id case hardened and hot dip galvanized Y-pipe for transferring sand in sand towers.
Part #: 0806089A  Weight: 19 lbs.

### FUNNEL, SAND ★
20" x 12" x 18" Aluminum sand funnel for locomotives.
Part #: 0806145A  Weight: 11.6 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 #: 261652  Weight: 12 lbs.

### ROD, UNCOUPLING, LOWER RH ★
Righthand front lower uncoupling rod assembly for GM locomotives.
Part #: 261659  Weight: 13.4 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 VICTUALIC Y-PIPE ★
Victualic 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 Victualic ring groove.
Part #: 0806138D  Weight: 30 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.

### 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.

### ROD, UNCOUPLING, UPPER LH ★
Lefthand front upper uncoupling rod assembly
Part #: 261702  Weight: 13.4 lbs.

### SNOW PLOW (PILOT) C/W DOORS & CRITTER DEFLECTORS
Snow plow (Pilot) complete with doors & critter deflectors for GE locomotives.
Part #: 0923113B  Weight: 550 lbs.
LOCOMOTIVE, CAR, PASSENGER

SUN VISOR ASS’Y
IPS manufactures long-lasting sun visor assemblies for locomotives. Measures 18” long x 9” wide. Replacement visors available.
Part #: 0923121B  Weight: 3 lbs.

TOILET ASS’Y
This recirculating toilet assembly is designed to suit GM locomotives.
Part #: 103900  Weight: 25.2 lbs.

TOILET SEAT, BUMPER & HINGES
This kitted part contains one toilet seat and bumper, one left and one right hand hinge for a recirculating toilet.
Part #: 35778  Weight: 2.8 lbs.

TOILET COVER, MOM SWITCH & MOTOR
This kitted item contains the MOM switch and motor cover for the Electra Magic Model 80 recirculating toilet.
Part #: 35777  Weight: 0.4 lbs.

TOILET FLANGE SEAL
Locomotive toilet flange seal for the Electra Magic Model 80 recirculating toilet.
Part #: 33364  Weight: 0.08 lbs.

TOILET PUMP & MOTOR ASS’Y
This kitted item includes one pump assembly and one pump motor for the Electra Magic Model 80 recirculating toilet.
Part #: 35774  Weight: 2.8 lbs.

TOILET DEFLECTOR/BAFFLE, STRAIGHT
Stainless steel baffle deflector assembly for railcar toilets. Straight sleeve can be easily mounted in place with tapered installation tool # 0923146A-01.
Part #: 0923146A  Weight: 1 lb.

TOILET DEFLECTOR/BAFFLE INSTALLATION TOOL, STRAIGHT
Precision laser-cut aluminum installation tool for toilet baffle deflectors. This tool is for the sleeve of the straight toilet baffle (part # 0923146A).
Part #: 0923146A-01  Weight: 0.2 lbs.

TOILET DEFLECTOR/BAFFLE, TAPERED
Stainless steel baffle deflector assembly for railcar toilets. Tapered sleeve can be easily mounted in place with tapered installation tool # 0923143A-01.
Part #: 0923143A  Weight: 1 lb.

TOILET DEFLECTOR/BAFFLE INSTALLATION TOOL, TAPERED
Precision laser-cut aluminum installation tool for toilet baffle deflectors. This tool is for the sleeve of the tapered toilet baffle (part # 0923143A).
Part #: 0923143A-01  Weight: 0.2 lbs.

WRITING TABLE, CONDUCTOR’S
Almond powder-coated writing table, complete with hinged bracket to fold table against wall when not in use. 14-1/4” x 18-1/4” writing surface. Prepackaged in quantities of 2.
Part #: 2223186A  Weight: 13 lbs.
LOCOMOTIVE, CAR, PASSENGER

SEATS

**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

**ADAPTER HOUSING, MWX WHEEL**
MWX wheel adapter housing for the slide sensor on Timken journal housings.
Part #: 326531  Weight: 25 lbs.

**BAR LADDER, UPPER BERTH BEDROOM**
12” long steel upper berth bar ladder for passenger cars.
Four 3/16” mounting holes.
Part #: 412745  Weight: 0.5 lbs.

**BAR, BALLAST CAR DUMP, SHORT**
43” long, 1-1/4” diameter ballast car dump bar with 30 degree bar.
Part #: 2310049B  Weight: 15 lbs.

**BRACKET MOUNT, UPPER DOOR LOCK PIN, BR/AL**
1/4” steel upper door lock pin bracket mount (BR/AL) for freightcars. Overall size 12” x 12-5/8”.
Part #: 4226131A  Weight: 9 lbs.

**BRACKET, CAR CARRIER, LH**
Car carrier bracket designed to reinforce car structures for stacking.
Part #: 0806093A  Weight: 13.5 lbs.

**BRACKET MOUNT, UPPER DOOR LOCK PIN, UNIVERSAL**
1/4” steel universal lower door lock pin bracket. Overall dimensions 5-1/2” x 3-1/4” x 3-1/2”, used on freightcars.
Part #: 4226110A  Weight: 3.2 lbs.

**BRACKET, DOOR ROLLER, DOUBLE, BR/AL**
1/4” steel double door roller bracket (BR/AL) for freightcars. Overall size 11-1/2” x 6-3/8”.
Part #: 4226103A  Weight: 3.7 lbs.

**NEW!**

**NEW!**
BRACKET, PIVOT ARM, 90 DEG.*
1/4" steel 90° pivot arm bracket; overall size 3” x 6” long, x 3-5/8” across.
Part #: 4226120A  Weight: 3.2 lbs.

BRACKET, REAR HOUSING ROLLER, SINGLE*
3/16” steel rear housing single roller bracket for freightcars. Overall size 3-7/16” x 6-5/16” x 1-1/4”, painted brick red.
Part #: 4226150A  Weight: 1.4 lbs.

BRACKET, REAR HOUSING, BL/AR, NEW*
3/16” steel rear housing bracket (BL/AR) for freightcars. Overall size 3-5/8” x 6-3/8” x 1-3/16”, painted brick red.
Part #: 4226161A  Weight: 1.4 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.

CLEVIS, UPPER LOCK ARM REPLACEMENT
Replacement clevis for the upper lock arm on rail cars.
Part #: 4226122A  Weight: 1.7 lbs.

BRACKET, RADIAL DOOR INNER ROLLER, BL/AR*
1/4” steel radial door inner roller bracket (BL/AR) for freightcars. Overall size 6-3/8” x 6-3/8”, painted brick red.
Part #: 4226160A  Weight: 2.5 lbs.

BRACKET, REAR HOUSING ROLLER, DOUBLE, BR/AL*
3/16” steel rear housing double roller bracket (BR/AL) for freightcars. Overall size 3-13/16” x 11-3/8” x 1-3/16”, painted brick red.
Part #: 4226147A  Weight: 2 lbs.

BRACKET, REAR HOUSING, BR/AL, NEW*
3/16” steel rear housing bracket (BR/AL) for freightcars. Overall size 3-5/8” x 6-3/8” x 1-3/16”, painted brick red.
Part #: 4226163A  Weight: 1.4 lbs.

CATCH ELBOW, TOILET SEAT COVER*
Spring-hinged toilet seat cover catch elbow for toilet seats on passenger cars.
Part #: 438011  Weight: 0.07 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.

CUP, SPRING*
Spring cup for box cars - 24 used per car.
Part #: 0806023A  Weight: 6 lbs.
LOCOMOTIVE, CAR, PASSENGER

**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.

**END PLATE, COUPLER BLOCK SUPPORT**
3” high x 6-3/4” wide x 7/8” thick coupler block support end plate.

Part #: 023563503-01 Weight: 4.8 lbs.

**FLANGE, PARTITION DOOR FLOOR LOCK**
2-1/2” diameter partition door floor lock flange for passenger cars. 7/16” high.

Part #: 0666133A  Weight: 0.2 lbs.

**GUIDE FINGER, UPPER DOOR**
1/4” thick x 2” x 5-1/2” steel upper door guide finger for rail car doors.

Part #: 4226135A  Weight: 0.8 lbs.

**GUIDE FINGER, UPPER DOOR, WEAR RESISTANT**
1/4” thick x 2” x 5-3/8” steel upper door guide finger, with high-density wear-resistant polyurethane wear plate.

Part #: 4226144A  Weight: 0.6 lbs.

**HANGER, AIR HOSE**
2” wide by ~ 1-5/8” diameter air hose hanger/clamp, made from 20 gauge galvanized steel.

Part #: 0806018A  Weight: 0.15 lbs.

**HASP, UPPER**
3/4” x 2-1/8” long steel upper hasp for passenger cars. 5/8” high.

Part #: 0666110A  Weight: 0.1 lbs.

**HOLDER, VESTIBULE SAFETY BAR, LOWER**
Lower vestibule safety bar holder for passenger cars.

Part #: 0666127A  Weight: 0.7 lbs.

**HOSE, FLEXIBLE BRAKE, W/ BLEEDER VALVES, 17”**
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
Part #: FBH-G  Weight: 0.02 lbs.

**LATCH, FLAT BED DOOR, LH**
Left hand flat bed door latch for HiRail cars.

Part #: 0806126A  Weight: 0.9 lbs.

Latch, Flat Bed Door, RH
Part #: 0806127A  Weight: 0.9 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.
Part #: 0806037A    Weight: 11.14 lbs.

LEVER, OPERATING, 74-3/8”★
74-3/8” long control operating lever. 18” offset.
Part #: 0806078A    Weight: 27 lbs.

PIN, FREIGHTCAR, 1-3/4” X 16”
1-3/4” diameter x 16” long center pin for freight cars, with heavy chamfers on both ends.
Part #: B-50-C-256    Weight: 11 lbs.

PLATE, WEAR, SLOPE SURFACE, 4-1/4” X 2-1/4”★
4-1/4” x 2-1/4” Slope surface wear plate made from 1/4” steel for freight cars with two 1” mount holes.
Part #: 0806066A    Weight: 0.6 lbs.

RACK, TOWEL, MEDIUM, LH★
5” deep x 12-1/4” wide medium towel rack. Corner-wall mounted, with 1/2” retaining lip. Left hand.
Part #: 0666105A    Weight: 1 lb.

RACK, TOWEL, LARGE★
6-1/4” deep x 16” wide large towel rack. Wall mounted, with 1” retaining lip.
Part #: 0666107A    Weight: 3 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.

LEVER, OPERATING, 70-1/2”★
70-1/2” long operating lever. 21-3/4” offset.
Part #: 0806088A    Weight: 26 lbs.

OPERATING LEVER U-BOLT
Operating lever U-bolt, customizable and used on a variety of boxcars.
Part #: 0806019A    Weight: 1.6 lbs.

PLATE, SPLICE, 12-1/2”
5” wide x 12-7/16” long (overall) x 3/8” thick splice plate for freight cars.
Part #: 0806044A    Weight: 5.6 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.

RACK, TOWEL, MEDIUM, RH★
5” deep x 12-1/4” wide medium towel rack. Corner-wall mounted, with 1/2” retaining lip. Right hand.
Part #: 0666106A    Weight: 1 lb.

RACK, TOWEL, LARGE
6-1/4” deep x 16” wide large towel rack. Wall mounted, with 1” retaining lip.
Part #: 0666107A    Weight: 3 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 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.

**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, 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

**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.

**SHIM, COUPLER WEAR PLATE, 5/16”**

Part #: 0806121A

**SHIM, COUPLER WEAR PLATE, 1/4”**

Part #: 0806120A

**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.

**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.

**STEM ASS’Y**

3/4” diameter x 14” long stem assembly for passenger cars. 3/4” threaded end with 1-1/4” diameter shoulder.

Part #: 273250  
Weight: 1.7 lbs.

**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.

**WRENCH, DOOR, 3/4” SQ. HEAD**

1-5/16” diameter steel bar, 21-1/4” long with 5-3/4” dogleg and 5-3/4” long 3/4” square head. Painted black.

Part #: 4226141A  
Weight: 11 lbs.
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, CABLE REEL**

This innovative cart measures 8’ wide by 26’ long and is designed to handle up to four 72” diameter cable reels, and to efficiently string and position multiple cables. Supplied with low-friction rollers and an articulating boom. Also comes with 14” diameter wheels, air brakes, elevated walkway and safety railings.

Part #: CRC-IPS

**CART, FLATBED**

This basic cart can be customized to suit a wide range of requirements. Call us for a consultation and discover what design options are available.

Flatbed cart with wooden deck and 5-ton capacity. Four 28” demountable pressed wheels.

Part #: CFB-IPS

**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, 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.
CARTS

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.

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, PEOPLE MOVER
Designed with safety and comfort in mind, IPS supplies carts to move crews to work areas. This cart accommodates 16 people comfortably on two padded benches with safety belts, two air vents in the roof, and two lockable access doors. Four wheel air brake system on 10” diameter wheels with optional removable platform for portable toilet. Overall cart dimensions: 16’ long x 5’6” wide (not including toilet platform).

Part #: CPM-IPS
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 SIDE ENCLOSURE

Heavy-duty, 10-ton rail cart with removable side enclosures. Comes complete with checker plate decking, wheel assemblies, oscillating axles, pintle hitches, “D” Rings, braking systems with glad hands, stake pockets and a removable expanded metal enclosure. 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 #: CRS2-IPS

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

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. Four rollers used per cart.

Part #: CTBB-IPS-01 Weight: 0.1 lbs.
CARTS

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

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 an external tool platform and ladder for roof access. Smaller wheels (10”) than our CTS-IPS model, but with greater storage capacity.
Part #: CTS-1L-IPS

CART, TOOL SHED, 16” WHEEL
This specialty tool storage cart is designed to carry tools and equipment cabinets in a securely locked unit, with additional shelving for portable tools or equipment that you may want stored securely on-site.
Part #: CTS-IPS
CART, POLE TRAM, DYNAMIC CRADLE

This heavy-duty log transport cart was designed for the movement of logs within pole processing facilities. Used in pairs, the rotating cradle accommodates curves in tracks during transport while moving log stacks through proofing chambers and to and from storage areas. Axles and frame are designed with a drainage system so that the cart is self-lubricating when used with log immersion chambers for reduced maintenance.

- 10” machined solid steel wheels with bronze bushings
- Oversize axles for long term strength
- Heavy-duty reinforced plate steel cradle arms
- 76” x 56” x 60” (38” radius cradle)

Part #: PTC-IPS  Weight: 1847 lbs.

CART, POLE TRAM, STATIC CRADLE

This heavy-duty log transport cart was designed for the movement of logs within pole treatment facilities. Axles and rail wheels are enclosed for wheel and axle protection, and the frame is equipped with a center guide channel to resist floatation during chemical treatment.

- 9-1/2” machined solid steel wheels with bronze bushings
- Oversize axles for long term strength
- Heavy-duty reinforced plate steel cradle arms
- 96” x 52” x 61” (43” radius cradle)

Part #: PTC-43R  Weight: 2034 lbs.

DRAW BAR, 6 FOOT

IPS manufactures heavy-duty draw bars for push carts, supplied complete with air lines and safety chain. Safety yellow paint finish. 6’ draw bar shown. Also available in 10, 16, and 24 foot.

Part #: DB-06-IPS (6 Foot)  Weight: 55 lbs.
Part #: DB-10-IPS (10 Foot)  Weight: 108 lbs.
Part #: DB-16-IPS (16 Foot)  Weight: 163 lbs.
Part #: DB-24-IPS (24 Foot)  Weight: 275 lbs.

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.

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.

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.
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

8” diameter aluminum wheel with bearings. Also used in rail carts CR8-IPS-8.

Part #: TS-12A  Weight: 12.2 lbs.

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.

WHEEL, RAIL, HEAT-TREATED, 10”
A heavy-duty wheel with a keyway machined from high-strength alloy steel and heat-treated to a minimum of 53HRC. 10” running surface, 3” overall width.

Part #: WA-10HT  Weight: 62 lbs.

WHEEL, HI-RAIL, 10”
10” diameter Hi-Rail wheel for various applications.

Part #: WA-10HR  Weight: 50 lbs.

WHEEL, BUGGY, 16”
16” steel flanged wheel for rail buggies.

Part #: 32294  Weight: 120 lbs.

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.

WHEEL, SPEEDER, 17”, 5-HOLE MOUNT
17” diameter running surface alloy steel wheel designed for speeder machines.

Part #: DW-492000-001B
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 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.

WHEEL, BALLAST REGULATOR, 24”, 10-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
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, 450MM, HYDREMA
450mm diameter wheel for Hydrema articulating dump trucks. Hardened to 30-33HRC.
Part #: 2108090-IPS  Weight: 204 lbs.

WHEEL, 550MM, HYDREMA
550mm diameter wheel for Hydrema articulating dump trucks. Hardened to 30-33HRC.
Part #: 2084080-IPS  Weight: 385 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 ASS’Y, 3-1/4”, ALUMINUM-BRONZE
3-1/4” diameter running surface wheel assembly mounted on an upgraded aluminum-bronze bushing bringing the id to 1-1/8”, 3-3/4” wide.
Part #: Y-683655-IPS  Weight: 8 lbs.

BUSHING, WHEEL, 1-7/16”, ALUMINUM-BRONZE
1-7/16 od, 1-3/16” id x 3-3/4” long aluminum-bronze bushing for rail clamp wheels (part # Y-683655) on tampers.
Part #: Z-683657  Weight: 0.64 lbs.

CX SPIKER WHEEL ASSEMBLIES
IPS supplies components for CX Spiker wheels from the bushings and insulators to full wheel and axle assemblies.

WHEEL STUD
Wheel studs used in the hub for CX Spiker wheels (part # 45744766).
Part #: E-10225R  Weight: .3 lbs.

HUB, WHEEL
Wheel hub for 3-7/16” diameter Nordco CX Spikers.
Part #: 45744766  Weight: 48 lbs.
Hub, Wheel, 3” axle
Part #: 45744765

INSULATOR DISC, 16” WHEEL, W/ FLAT
11” od, 6-3/16” id phenolic insulator disc with six 1-17/64” mounting holes for the 16” spiker wheel (part # 86969201-IPS).
Part #: 4623-0054

INSULATOR, WHEEL HUB, 16” WHEEL
6-1/4” od, 6” id x 1-3/32” phenolic insulator for the wheel hubs of the 16” spiker wheel (part # 86969201-IPS).
Part #: 76340105

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WHEELS & WHEEL REBUILDING

INSULATOR, STUD BUSHING, 16” WHEEL
1.375” od, 1.252” id x 1.03” phenolic insulators for the stud bushings of the 16” spiker wheel (part # 86969201-IPS). 6 needed per wheel.
Part #: 22109710

WHEEL, SPIKER, 16”
16” diameter, high-strength, heat-treated alloy steel wheels with bolt flange for spiker machines.
Part #: 86969201-IPS  Weight: 133 lbs.

INSULATION BY-PASS
Insulator by-pass for the drive axle assembly on CX Spikers.
Part #: 87129541  Weight: 0.02 lbs.

RETAINER DISC, 16” WHEEL, W/ FLAT
11” od, 6-3/16” id, 3/8” steel retaining disc with flat section and six 1-17/64” mounting holes for the 16” spiker wheel (part # 86969201-IPS). For CX Spikers.
Part #: 6342-4124  Weight: 5.8 lbs.

LOCKWASHER, EXTRA DUTY, 3/8”
3/8” Lockwasher for the drive sprocket on CX Spiker machines. 3 needed per unit.
Part #: 3065910  Weight: 0.02 lbs.

NUT, WHEEL STUD, 1-1/8”
1-1/8” hex nut for CX Spiker axles (3-7/16”); 16 threads per inch.
Part #: 5148-2612  Weight: 0.1 lbs.

WASHER, WHEEL, 4-3/4”
4-3/4” od, 2-7/8” id x 1/2” thick wheel washer for CX Spiker axles (3-7/16”)
Part #: 8607-9410  Weight: 0.1 lbs.

BEARING, PILLOW BLOCK, 3-7/16” AXLE
Pillow block bearing for the 3-7/16” demountable axle assembly on Nordco CX Spikers.
Part #: 5398-890  Weight: 35.7 lbs.

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
Axle Ass’y, Demountable, 3”
Part #: 90411033
Axle, CX Spiker, 3”
Part #: 68742616

CAPSCREW, HEX HEAD, 3/8” X 1-1/2”
3/8” x 1-1/2” Hex head capscrew for the drive sprocket on CX Spiker machines. 3 needed per unit.
Part #: 2774801  Weight: 0.1 lbs.

SPROCKET, DRIVE, CX SPIKER
Drive sprocket for the 3-7/16” axle on CX Spikers.
Part #: 75110490

AXLE, SPIKER, 3-7/16”
3-7/16” diameter outer drive axle for CX Spikers.
Part #: 68747123  Weight: 180 lbs.

NUT, SLOTTED HEAVY HEX, 2-3/4” -8
2-3/4” -8 slotted hex nut for CX Spiker 3-7/16” axle.
Part #: 5173-8010  Weight: 3 lbs.
**WHEELS & WHEEL REBUILDING**

**COLLAR, LOCKING, 3”**
Locking collar clamp for the 3” drive axle assembly of CX Spikers.
Part #: 25563000  Weight: 1.9 lbs.

**NUT, SLOTTED, 2-1/2”-8, AXLE ★**
2-1/2”-8 NC slotted hex nut for spiker axles.
Part #: 5173-7920  Weight: 3 lbs.

**WHEEL ASS’Y, 5”, ALUMINUM**
A 5” diameter heat-treated aluminum wheel assembly. These wheels have a 1,250 lb. 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.
Part #: WAA-05-TS-12  Weight: 12 lbs.

**WHEEL AXLE ASS’Y, 8”, ALUMINUM**
An 8” diameter heat-treated aluminum wheel assembly. These wheels have a 1,250 lb. 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.
Part #: WAA-08-TS-12  Weight: 17 lbs.

**WHEEL ASS’Y, PROJECTOR BUGGY, 10”**
Full wheel assembly for projector buggies; includes 10” wheels, axle, and bearings.
Part #: 0-2201452-0-01  Weight: 17.6 lbs.

**INSULATOR, PHENOLIC SLEEVE, 3” ★**
A tapered 3-11/16” long phenolic insulator sleeve for PC-101 carts. 2-9/16” od (maximum) and 1.957” id (minimum).
Part #: WAA-10I-IPS-01  Weight: 0.01 lbs.

**WASHER, PC-101, 3-1/2”, PHENOLIC ★**
3-1/2” od, 1-9/16” id phenolic insulator bushing for PC-101 carts. 1/16” thick.
Part #: WAA-10I-IPS-02  Weight: 0.1 lbs.

**WHEEL AXLE ASS’Y, 10”, 2-1/2 ton, Insulated**
Wheel Axle Ass’y, 10”, 2-1/2 ton, Insulated
Part #: WAA-10I-IPS

**COLLAR, LOCKING, 3-7/16”**
Locking collar clamp for the 3-7/16” drive axle assembly of CX Spikers.
Part #: 25564500  Weight: 2 lbs.

**NUT, SLOTTED, 2-1/2”-12, AXLE ★**
2-1/2”-12 NF slotted hex nut for spiker axles.
Part #: 5173-7900  Weight: 3 lbs.

**WHEEL AXLE ASS’Y, 5”, LIGHTWEIGHT UTILITY**
Replaceable wheel 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-CLU-IPS  Weight: 35 lbs.

**WHEEL AXLE ASS’Y, 8”, STEEL**
8” steel light-duty wheel assembly consisting of taper roller bearing and stub axle.
Part #: WAA-08-20  Weight: 20 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-107-IPS
Wheel Axle Ass’y, 10”, 7.5-ton, Insulated
Part #: WAA-1071-IPS
Axle, Wheel Ass’y, 10”, 2-15/16”
Part #: WAA-1007-A
Bearing, Wheel Ass’y, 10”, 7.5-ton
Part #: WAA-1007-BRG
Insulator, Phenolic Sleeve, 3-5/8”
Part #: WAA-10071-IPS-01
Washer, 4”, Phenolic
Part #: WAA-10071-IPS-02

WHEEL AXLE ASS’Y, 14”, 8 TON
14” diameter wheel assemblies complete with idler axle set for 56-1/2” track gauge, heavy-duty tapered roller bearings, and two 4-bolt axle mounting boxes. 8 Ton working load limit.
Part #: WAA-1408-IPS Weight: 425 lbs.

WHEEL AXLE ASS’Y, 14”, 15 TON
14” diameter heavy-duty wheel assemblies complete with a 3-1/4” diameter axle, either phenolic-insulated or non-insulated wheels, heavy-duty roller bearings, and axle boxes. 15-ton capacity available; other capacities by consultation.
Part #: WAA-1415-IPS Weight: 660 lbs.

WHEEL AXLE ASS’Y, 16”, 10 TON
16” diameter heavy-duty wheel assemblies complete with 3” axles, non-insulated wheels, and pillow block bearings. 10-Ton working load limit.

WHEEL AXLE ASS’Y, 16”, 6 TON
16” diameter heavy-duty wheel assemblies complete with 2-7/16” axles, heavy-duty pillow block bearings. 6-Ton working load limit.

WHEEL AXLE ASS’Y, 16”, 2-1/2 TON, INSULATED
16” diameter heavy-duty wheel assemblies complete with 2-3/16” diameter axles, insulated wheels, and pillow block bearings. 3 Ton working load limit.
Part #: WAA-16-N-IPS Weight: 235 lbs.
Axle, Wheel Ass’y, 1-15/16”
Part #: WAA-16-N-IPS-A Weight: 52 lbs.

NEW!
WHEEL AXLE ANCHOR, LONG
7/8” diameter x 48” x 8” wide steel wheel set anchor assembly for interlocking wheel sets during transport. This assembly is for the long (upper) interlocks and is composed of a U-Bolt with Spiral padding, a clamp bar with bumper pad, and two 7/8” hex nuts.
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

INSULATOR, INSIDE WASHER, 28” WHEEL, 1/8” THICK

1/8” thick inside insulator washer for 28” ballast regulator wheels. Part of bushing set # 9006634-set.

Part #: 736156

INSULATOR, MAIN BORE, 28” WHEEL

Insulator bushing for wheel bore of a 28” ballast regulator wheels. Part of bushing set # 9006634-set.

Part #: 201677

INSULATOR, STUD BUSHING, 28” WHEEL

Wheel stud insulator bushing for 28” ballast regulator wheels. Part of bushing set # 9006634-set - 10 pieces per set.

Part #: 101375

INSULATOR, OUTSIDE WASHER, 28” WHEEL, 1/16” THICK

1/16” thick outside insulator washer for 28” ballast regulator wheels. Part of bushing set # 9006634-set.

Part #: 715286

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.

WHEEL HUB

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) Weight: 38 lbs.
Part #: B-16456 (Non-Insulated) Weight: 38 lbs.

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

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.
### WHEEL COMPONENTS

#### 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.

#### INSULATOR, HUB RETAINER DISC
Insulator ring for hub retainers on ballast regulators.

- **Part #:** 10.1126
- **Weight:** 0.1 lbs.

#### INSULATOR DISC, SPEEDSWING, 16-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.

#### 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, 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.

#### 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.

#### WASHER, WHEEL, 15/16", STEEL
15/16" od, 11/16" id x 1/8" thick steel wheel washer for spike puller machines.

- **Part #:** 6387-3551
- **Weight:** 0.01 lbs.

#### WHEEL AXLE
A non-insulated wheel axle for Nordco-Tripp machines.

- **Part #:** 54261725
- **Weight:** 2 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.
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, 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, 16”, SPIKER/ANCHOR APPLICATOR**
Cast brake shoe designed for the B spiker and anchor machine Model E dual spike puller.

Part #: 7090-0072  Weight: 7.4 lbs.

**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”, 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, TIE CART, 10”, GEISMAR**
Manufactured brake shoe for 10” wheels on Geismar tie carts.

Part #: TD-20BR8  Weight: 2.6 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”, 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

Pin, Brake Shoe, 1” x 4-3/4”
Part #: WA-24-BS-01

**BRAKE SHOE, 24”, BURRO CRANE**
Cast brake shoe designed for 24” diameter Burro crane wheels.


**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.

**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, TIE CHANGER**  
Manufactured brake shoe for tie changer machines.  
Part #: 78011-120-4  
Weight: 4.6 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 Lock, 3/4” X 2-7/16”**  
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.
SPECIALTY EQUIPMENT FABRICATIONS

CULVERT & FLUME RELINING
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.

BLOCK, ALUMINUM RAIL, 4” X 8” X 16”
This 4” x 8” x 16” lightweight but strong aluminum rail block can be used as a rail support when threading tools onto rails, such as box threaders or anchor removers.
Part #: 0923184A

BLOCK, ALUMINUM RAMP, 4” X 12” X 12”
This 4” x 12” x 12” aluminum rail block is used as a lightweight aluminum ramp to help get hi-rail trucks up onto rails.
Part #: 0923183A

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

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.

BRACKET, GREASE BUCKET HOLDING
Grease bucket holding bracket; designed to hold a 35 lb. can with four 4” ears for bolting to equipment floor. Painted flat black.
Part #: 0808152A

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

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.
**CART, CUSHION LIFTER, DRAFT GEAR**

The IPS Draft Gear Cushion Lifter Cart is a mobile lifting device specifically designed for lifting projects along 56-1/2” rail lines. The 120 volt power pack can be connected to any regular wall socket or portable power unit to lift up to 800 lbs. Four D-rings allow for easy crane maneuvering and manual safety brake ensures cart stability under load.

Part #: CCL-IPS  
Weight: 507 lbs.

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**CONCRETE TIE SPREADER ASS’Y**

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 16 tie cables with formed hooks (with safety clips) 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.

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**CONCRETE TIE SPREADER SLING**

Hook harness for lifting single concrete ties via e-clip gauge plates.

Part #: CTSL-IPS  
Weight: 25 lbs.

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**GAUGE PLATE**

IPS punches and machines a wide range of gauge plates complete with welded pandrol clips.

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**GAUGE, HI-RAIL WHEEL ALIGNMENT**

Hi-Rail wheel alignment gauge. 2 pcs. Per set.

Part #: 2310100A  
Weight: 33.5 lbs.

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**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

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**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.
SPECIALTY EQUIPMENT FABRICATIONS

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

PIN, RAIL, SHORT
This rail pin is used to trip the bridge signals to indicate that the apron is fully closed and locked. 13" long.

Part #: 2310014A  Weight: 3.3 lbs.

PIN, RAIL, LONG
This rail pin is used to trip the bridge signals to indicate that the apron is fully closed and locked. 15-3/8" long.

Part #: 2310014B  Weight: 3.6 lbs.

LIFT, DRAFT GEAR COMPRESSOR
Draft gear compressor lift. 50" wide x 18" deep x 15" high, painted safety yellow.

Part #: 2310178A  Weight: 230 lbs.

POST, INTERMODAL HAND
29" high x 3" x 3" angle iron intermodal hand post.

Part #: 2310200A (LH)  Weight: 8.7 lbs.
Part #: 2310200B (RH)  Weight: 8.7 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 #: 2310178A  Weight: 230 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.
Part #: 2310014B  Weight: 3.6 lbs.

Part #: 0923179B  Weight: 28 lbs.
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.

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

HOukkan, Slack Adjuster Grab
Slack adjuster grab hook with off-set key-lock.
Part #: 2360035A-01

ROADMASTER 22 TOTE
Ruggently 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.

Part #: 2310070A-32
Weight: 370 lbs.

ROADMASTER RACK, BOTTLE
RoadMaster Bottle Rack for oxy-acetylene gas tanks. Comes with upper lift arm for lifting with grapple hooks.
Part #: 2310094A
Weight: 362 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 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 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.
SPECIALTY EQUIPMENT FABRICATIONS

ROADMASTER RACK, CAR COUPLER, 15-SLOT
Freight car coupler racks designed to hold up to 15 large or 17 mid-to-smaller couplers. Painted yellow.
Part #: 0805100A  Weight: 7,500 lbs.

ROADMASTER RACK, CAR COUPLER, 17-SLOT
Freight car coupler rack designed to hold up to 15 couplers. Painted yellow.
Part #: 0805101A  Weight: 7,500 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 for 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.
SPECIALTY EQUIPMENT FABRICATIONS

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.

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 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

SHIELD, SPARK

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

Part #: 2310085A  Weight: 29.5 lbs.

NEW!

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

LIGHTWEIGHT SPREADER BAR, 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.
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, “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, 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, PASSENGER CAR STEP, ALUMINUM
Custom nesting aluminum stairs for commuter access to passenger cars. Non-slip aluminum checkerboard plate over a robust aluminum frame, these steps come equipped with two 4” wheels for easy transportation and dual handrails for safety and ease of use. 39-3/8” wide at front of base, 44-1/2” wide at rear of base, and 13” high, with handrails extending to 55” above base.

Part #: 0923171A  Weight: 58.5 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

TOOLS SUPPLY CART
IPS can design and fabricate any number of support carts customized to your specific needs. Carts to facilitate both field and yard work, convey tools or personnel, or to be integrated with service machinery, can be based off of a wide store of current designs or can be custom designed and fabricated. This tool cart is designed to convey track maintenance equipment.

Part #: TSC-IPS  Weight: 175 lbs.
Today railroads carry 40% of all freight in the US – more than at any other time in history.

**SPECIALTY EQUIPMENT & FABRICATIONS**

**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

**UMBRELLA HOLDER**

Weld on umbrella holder with a drain-hole in the base.

Part #: 0806143A

**WELDING PALLET, COMPACT**

Compact portable welding with two cylinder mounts and a lockable tool cabinet.

Part #: 2310127A

**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.

**WELDING PALLET, COMPACT**

Part #: 2310127C
- Weight: 1,270 lbs.

**WELDING TRAILER, 2-WHEEL**

A heavy-duty 2-wheel trailer fully equipped with a welding machine, oxy/acetylene cutting torches and hose reels.

Part #: 2310127D
- Weight: 1,270 lbs.

**WHEEL SET LIFTER, “MANTIS”**

The “Mantis” wheel set lifter is a forklift attachment with a WLL of 3,500 lbs. used to easily move 30” diameter wheel set assemblies.

Part #: 8000100A
- Weight: 400 lbs.
UNIQUE GIFTS & AWARDS FOR RAILROADERS

BRASS BELL, 3-7/8”
A 3-7/8” diameter polished brass bell mounted on a 6” x 6” square walnut base. Ideal for desks, shelves or mantelpieces, & comes with engraved brass plaque “SPIRIT OF THE IRON HORSE”
Part #: BB-4-IPS   Weight: 3.7 lbs.

BRASS BELL, 9”
A 9” diameter polished brass bell mounted on a 10-1/4” diameter octagonal walnut base. Ideal for retirement gifts or special awards.
Part #: BB-9-IPS   Weight: 26.2 lbs.

BRASS BELL, 12”, R&R
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.
Part #: BB-IPS R&R   Weight: 45 lbs.

BOOK END SET, CHROME PLATED★
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.
Part #: CPBE-85

BOOK END SET, GOLD PLATED
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.
Part #: GPBE-85   Weight: 40 lbs.

RAIL SPIKE, CHROME-PLATED★
Chrome plated rail spike for your desk or office.
Part #: CPRS-6   Weight: 1 lb.

RAIL SPIKE, GOLD-PLATED
Gold plated rail spike for your desk or office. Plated with 18 karat gold, also available with chrome finish.
Part #: GPRS-6   Weight: 1 lb.

SCULPTURE, SPIKE DRIVER
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.
Part #: GSDS-100   Weight: 1.1 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 ASTM designation A-36
- Manufacturing tolerance for fabrication ±6 mm (1/4")
- All crosswalks are 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 1/2")*
- Width of crosswalk: 102 mm (4")
- O.D. of cross drain downspout: 102 mm (4")

*Collector pan dimensions are customizable to suit customer requirements.
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“Sentinel” Deraill Alarm – 2310090A

This scene is about to cost you tens of thousands of dollars:

A derailed Projector Buggy, unnoticed by the operator, is a common cause of mounting costs in rail maintenance:

- The Projector Buggy quickly deforms and is destroyed, requiring return to shop (if possible), repair and/or replacement.
- Associated wiring, hoses, and sensors require testing and possible replacement.
- Lost Rail Gang production incurred until Projector Buggy repair/replacement is complete.
- Costs escalate throughout system as rail ‘Slow Orders’ are required until the rail work is complete.

What the Sentinel Does:

The Sentinel sensor is bolted into place next to the bias wheel assembly so that it sits from 4”-8” above rail head. Any deviation of over 2 seconds duration (to avoid false readings) triggers an alarm in the operator cab indicating immediate stop required. Since system initiates automatically when Buggy Lift Rack leaves Position One (Safe Carry Mode) no operator attention is required until a deraill occurs. LED lights on Sensor Box will give additional indication of active operation or alarm status.

Sentinel Kit includes Remote Sensor, 24V input power system, mediating Toggle Limit Switch, and Sensor Alarm Console.
Installation kit also includes 85’ sensor cable, 45’ console cable and fish tape.
Sensor Alarm Console seats neatly beneath operator board in a discrete but easily visible position.

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