



PILE DRIVER™

TRACE™

PILE DRIVER™ Snowplow

**30708-1, 31616-2, 30710-1, 32016-2, 30712-2, 32058-2,
30714-2, 30716-2**

Pusher Plow with TRACE™ Carbide Trip Edge

Owner's Manual and Installation Instructions

Original Instructions

⚠ CAUTION

Read this document before operating or servicing the snowplow.

⚠ CAUTION

Read this document before installing the snowplow.

⚠ CAUTION

See your WESTERN® outlet/website for specific vehicle application recommendations before installation. The Quick Match selection system has specific vehicle and snowplow requirements.

This document supersedes all editions with an earlier date.

OWNER INFORMATION

Register your snowplow online at www.westernplows.com

Owner Name: _____

Date Purchased: _____

Outlet Name: _____ Phone: _____

Outlet Address: _____

Snowplow Model/Year: _____

Snowplow Type/Size: _____ Weight: _____ lb/kg

Blade Serial Number: _____

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PREFACE

Welcome to the growing family of WESTERN® pusher plow owners.

This manual provides safety, operation, and maintenance information for your new WESTERN pusher plow. To keep your pusher plow in good condition, read and understand this manual and follow its recommendations. Failure to do so may affect your warranty coverage.

When service is necessary, your local WESTERN outlet knows your pusher plow best. Contact your pusher plow outlet for maintenance, service, or any other assistance you may require.

Keep this manual accessible. It is a handy reference in case minor service is required.

Before using your WESTERN pusher plow, make sure that your vehicle is equipped with all the vehicle manufacturer's and our required options for plowing.

The illustrations found in this manual represent typical components. They may not match your exact installation.

FACTORY ORIGINAL PRODUCTS

Your WESTERN pusher plow is a valuable investment. The best way to assure original equipment reliability and efficiency is to purchase only genuine **Factory Original parts and accessories**. "Will-fit" parts and accessories can alter your pusher plow's performance characteristics and may affect your product warranty.

Protect your investment by staying with the best—original WESTERN parts and accessories from your local WESTERN outlet.



SAFETY

SAFETY DEFINITIONS

WARNING

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious personal injury.

CAUTION

Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTE: Indicates a situation or action that can lead to damage to your snowplow and vehicle or other property. Other useful information can also be described.

SAFETY PRECAUTIONS

Improper installation and operation could cause personal injury and/or equipment and property damage. Read and understand this Owner's Manual before installing, operating, or making adjustments.

- NEVER get under the unit during maintenance procedures without properly securing the unit.
- ALWAYS take a few minutes to properly secure your pusher plow using dunnage or jack stands to ensure safety during maintenance.
- DO NOT rely solely upon the hydraulics of your machine to secure the pusher plow during maintenance.
- NEVER get between the bucket of the machine and the plow box while attaching the unit.
- ALWAYS be sure to keep hands and feet away from designated pinch points.
- DO NOT place hands or feet under the unit or your bucket.
- NEVER stand in front of a pusher plow while machine is in operation.

PERSONAL SAFETY

- Remove the ignition key and put the vehicle in PARK or in gear to prevent others from starting the vehicle during installation or service.
- Wear only snug-fitting clothing while working on your vehicle or snowplow.
- Do not wear jewelry or a necktie, and secure long hair.
- Wear safety goggles to protect your eyes from battery acid, gasoline, dirt, and dust.
- Avoid touching hot surfaces such as the engine, radiator, hoses, and exhaust pipes.
- Always have a fire extinguisher rated BC handy, for flammable liquids and electrical fires.

CELL PHONES

A driver's first responsibility is the safe operation of the vehicle. The most important thing you can do to prevent a crash is to avoid distractions and pay attention to the road. Wait until it is safe to operate mobile communication equipment such as cell phones, text messaging devices, pagers, or two-way radios.

NOISE

Airborne noise emission during use is below 70 dB(A) for the snowplow operator.

VIBRATION

Operating snowplow vibration does not exceed 2.5 m/s² to the hand-arm or 0.5 m/s² to the whole body.

SAFETY





TORQUE CHART

⚠ CAUTION





Read instructions before assembling. Fasteners should be finger tight until instructed to tighten according to the torque chart. Use standard methods and practices when attaching snowplow, including proper personal protective safety equipment.

Recommended Fastener Torque Chart

Inch Fasteners Grade 5 and Grade 8

| Size | Torque (ft-lb) | | Size | Torque (ft-lb) | |
|---------|---|---|---------|---|---|
| |  Grade 5 |  Grade 8 | |  Grade 5 |  Grade 8 |
| 1/4-20 | 8.4 | 11.9 | 9/16-12 | 109 | 154 |
| 1/4-28 | 9.7 | 13.7 | 9/16-18 | 121 | 171 |
| 5/16-18 | 17.4 | 24.6 | 5/8-11 | 150 | 212 |
| 5/16-24 | 19.2 | 27.3 | 5/8-18 | 170 | 240 |
| 3/8-16 | 30.8 | 43.6 | 3/4-10 | 269 | 376 |
| 3/8-24 | 35.0 | 49.4 | 3/4-16 | 297 | 420 |
| 7/16-14 | 49.4 | 69.8 | 7/8-9 | 429 | 606 |
| 7/16-20 | 55.2 | 77.9 | 7/8-14 | 474 | 669 |
| 1/2-13 | 75.3 | 106.4 | 1-8 | 644 | 909 |
| 1/2-20 | 85.0 | 120.0 | 1-12 | 704 | 995 |

Metric Fasteners Class 8.8 and 10.9

| Size | Torque (ft-lb) | | Size | Torque (ft-lb) | |
|------------|---|--|------------|---|--|
| |  Class 8.8 |  Class 10.9 | |  Class 8.8 |  Class 10.9 |
| M6 x 1.00 | 7.7 | 11.1 | M20 x 2.50 | 325 | 450 |
| M8 x 1.25 | 19.5 | 26.9 | M22 x 2.50 | 428 | 613 |
| M10 x 1.50 | 38.5 | 53.3 | M24 x 3.00 | 562 | 778 |
| M12 x 1.75 | 67 | 93 | M27 x 3.00 | 796 | 1139 |
| M14 x 2.00 | 107 | 148 | M30 x 3.50 | 1117 | 1545 |
| M16 x 2.00 | 167 | 231 | M33 x 3.50 | 1468 | 2101 |
| M18 x 2.50 | 222 | 318 | M36 x 4.00 | 1952 | 2701 |

These torque values apply to fasteners except those noted in the instructions.

SNOWPLOW BLADE WEIGHTS

Weights are of snowplow only without mounts.

| Size | Blade Assembly | Wt (lb) | Wt (kg) |
|------|----------------------|---------|---------|
| 8' | 30" Tall Pusher Plow | 2127 | 965 |
| 8' | 36" Tall Pusher Plow | 2221 | 1007 |
| 10' | 30" Tall Pusher Plow | 2249 | 1020 |
| 10' | 36" Tall Pusher Plow | 2377 | 1078 |
| 10' | 42" Tall Pusher Plow | 2508 | 1137 |
| 12' | 42" Tall Pusher Plow | 2644 | 1199 |
| 14' | 42" Tall Pusher Plow | 2907 | 1319 |
| 16' | 42" Tall Pusher Plow | 3170 | 1438 |

GETTING TO KNOW YOUR SNOWPLOW

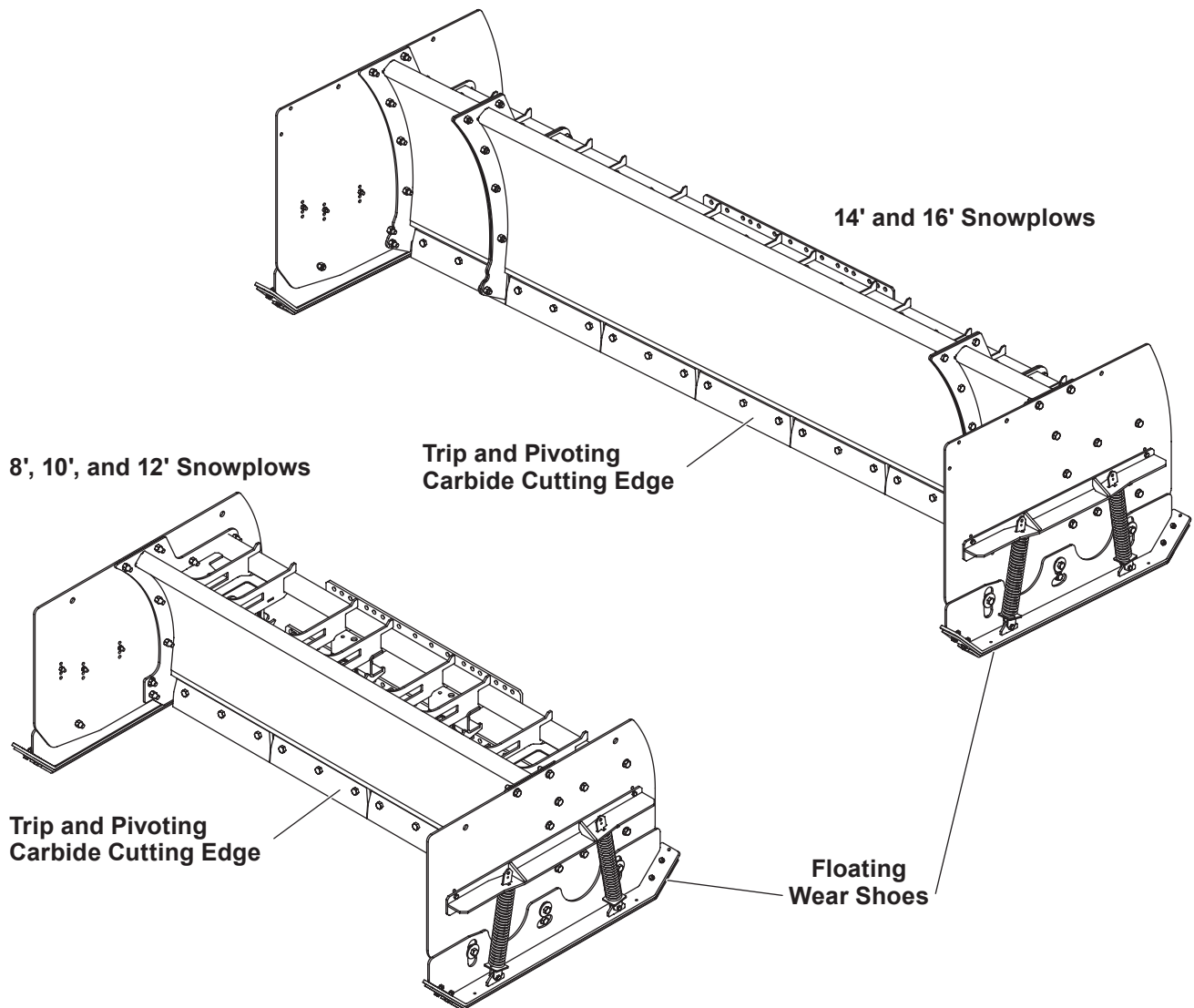
Your pusher plow is designed with several exclusive features to ensure safe and efficient snow removal.

Floating carbide cutting edges are combined with front- and rear-angled wear shoes. The cutting edges feature a trip and pivoting mechanism that minimizes potential damage to your machine by enabling the snowplow to move over raised manhole covers, low curbs, and other obstructions.

The floating wear shoes on the ends of the snowplow allow the cutting edges to better contour to the surface and give the operator more control to maintain surface contact close enough for superior snow, flood, and waste water removal purposes.

To ensure that your pusher plow will provide years of service with minimal maintenance, follow these simple guidelines:

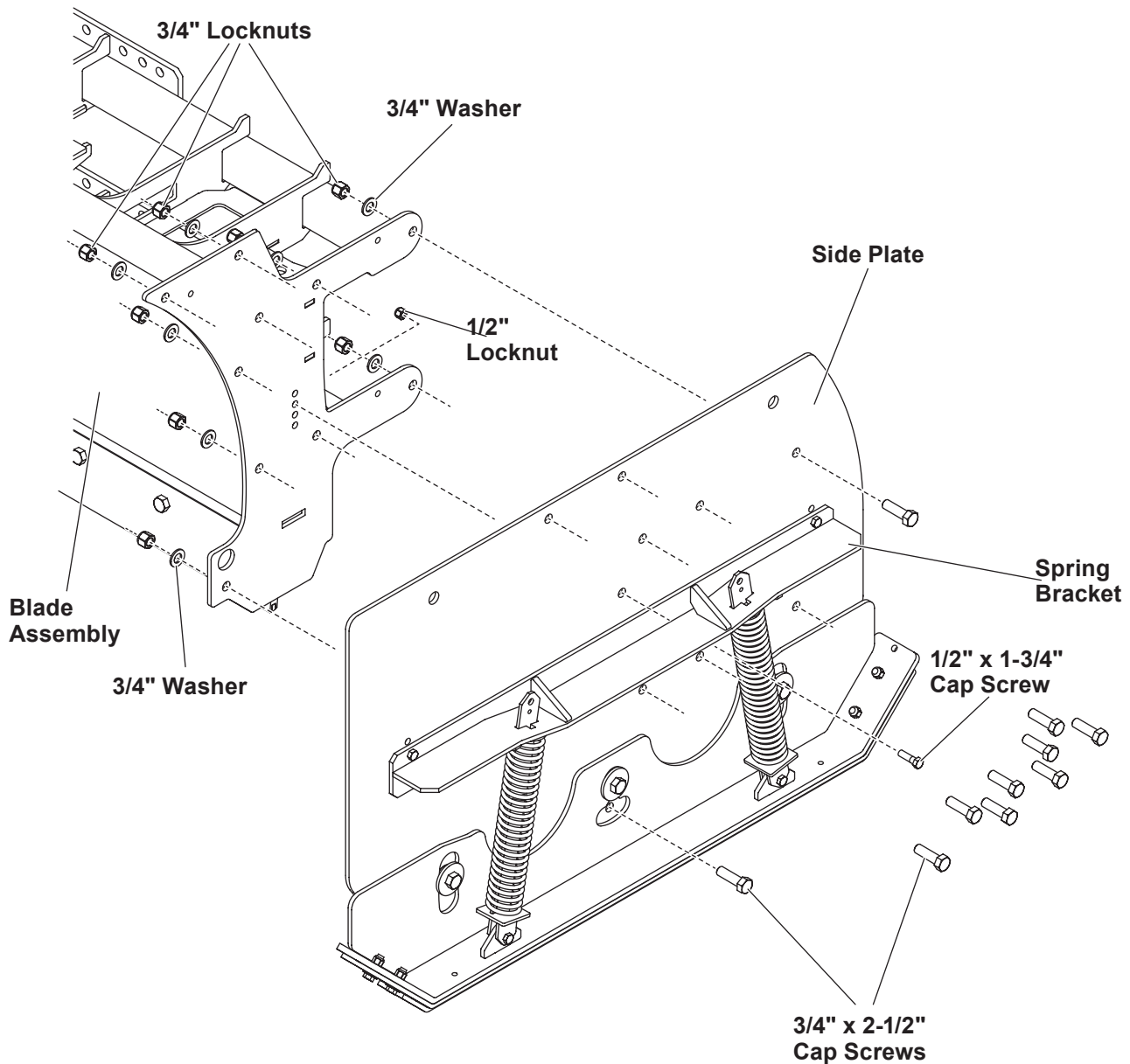
- Once the plow is properly attached to your machine it **MUST** be leveled **BEFORE** plowing.
- To level the blade, set it down and adjust the curl of your bucket, making sure that **BOTH** wear shoes are resting squarely on the plowing surface.
- **DO NOT** apply down force to the blade while plowing. This will considerably shorten the life of your wear shoes and is **NOT** necessary for effective snow removal.



ASSEMBLY INSTRUCTIONS

Your pusher plow ships from the factory with the trip and cutting edges already installed and the wear shoes pre-assembled to the side plates. To complete the snowplow assembly follow the steps below.

1. Carefully remove the bolt bag, side plate assemblies, and braces from the shipping pallet and set them aside.
2. Safely support the blade assembly while removing the remaining shipping materials.
3. Install each side plate to the blade assembly with ten $\frac{3}{4}$ " x $2\frac{1}{2}$ " cap screws, ten $\frac{3}{4}$ " flat washers, and ten $\frac{3}{4}$ " locknuts. Install one $\frac{1}{2}$ " x $1\frac{3}{4}$ " cap screw and one $\frac{1}{2}$ " locknut through the hole in the spring bracket and the blade assembly on each side. Tighten according to the torque chart.
4. Refer to the instructions packed with the attachment device to install it to your pusher plow and connect it to your vehicle.



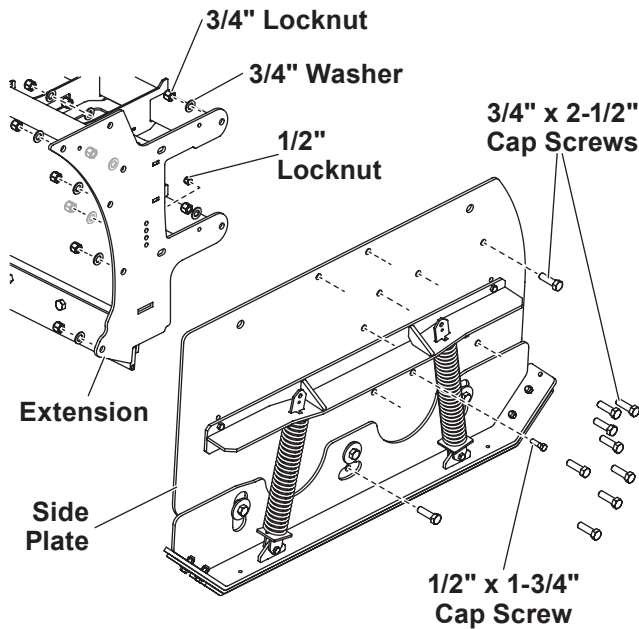
ASSEMBLY INSTRUCTIONS

Some pushers can be adapted for different plowing needs. The 14' and 16' pusher models may be converted to smaller size plows if desired.

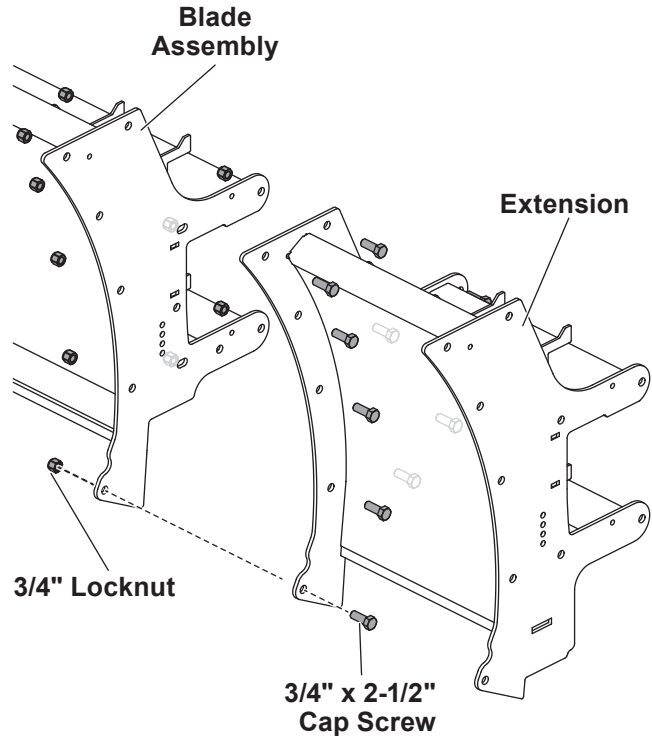
Extensions can be removed from 14' pushers to make a 10' pusher.

Extensions can be removed from 16' pushers to make a 12' pusher.

1. Raise the pusher plow slightly and safely support the side plate. Remove the ten 3/4" x 2-1/2" cap screws, ten 3/4" flat washers, ten 3/4" locknuts, one 1/2" x 1-3/4" cap screw, and one 1/2" locknut securing the side plate to the extension. Remove the side plate. Retain the side plate and all fasteners.



2. Safely support the extension. Remove the ten 3/4" x 2" cap screws and ten 3/4" locknuts securing the extension to the blade assembly. Remove the extension. Retain the extension and all fasteners.



3. Install the side plate directly to the blade assembly with the ten 3/4" x 2-1/2" cap screws, ten 3/4" flat washers, ten 3/4" locknuts, one 1/2" x 1-3/4" cap screw, and one 1/2" locknut removed in Step 1. Tighten according to the torque chart.
4. Repeat for the opposite side of the pusher plow.

MAINTENANCE

Your pusher plow requires only minimal service to remain in top condition. Follow these simple procedures to ensure proper plowing and long life.

LONG LASTING CUTTING EDGES

The carbide cutting edge segments may be replaced individually when worn. Refer to the instructions included with the replacement service parts. Adjust the wear shoes to align with the new cutting edge.

WEAR SHOES

The pusher plow is equipped with replaceable high-carbon alloy wear shoes to offer superior protection against wear and tear. Refer to the instructions included with the replacement service parts.

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This product conforms to the UK Supply of Machinery (Safety) Regulations 2008, The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (RoHS2), and UNECE R10.05.

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