



PILE DRIVER™

TRACE™

PILE DRIVER™ Snowplow

**30708-2, 31616-3, 30710-2, 32016-3, 30712-3, 32058-3,
30714-3, 30716-3, 32721-3, 32734-3, 32736-3
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	2183	990
8'	36" Tall Pusher Plow	2277	1032
10'	30" Tall Pusher Plow	2305	1045
10'	36" Tall Pusher Plow	2433	1103
10'	42" Tall Pusher Plow	2564	1163
12'	30" Tall Pusher Plow	3050	1383
12'	42" Tall Pusher Plow	2700	1224
14'	30" Tall Pusher Plow	3417	1550
14'	42" Tall Pusher Plow	2953	1339
16'	30" Tall Pusher Plow	3651	1656
16'	42" Tall Pusher Plow	3216	1458

GETTING TO KNOW YOUR SNOWPLOW

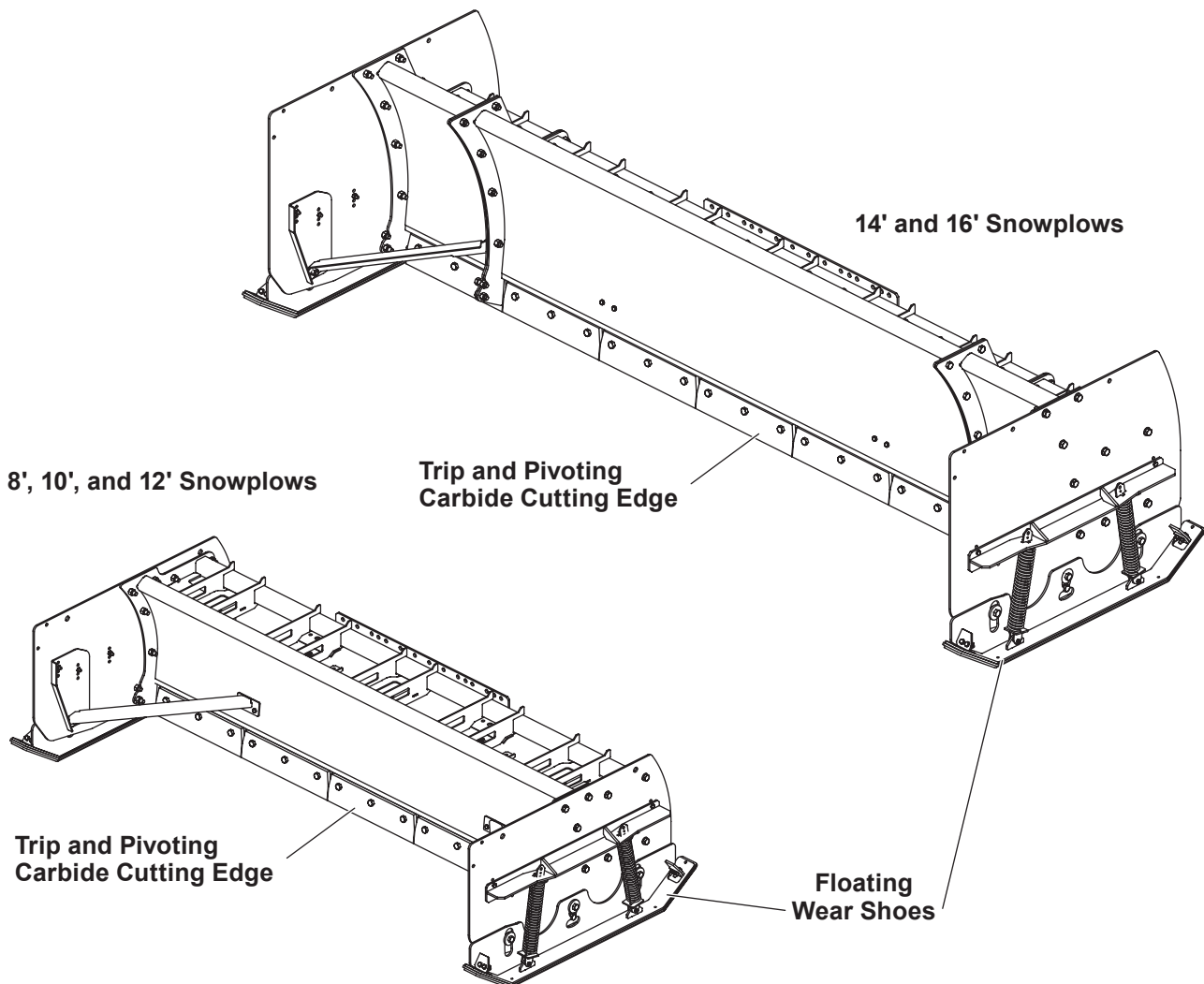
Your pusher plow is designed with several exclusive features to ensure safe and efficient snow removal.

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.
- Down force is not necessary for effective snow removal. It may be used to assist in scraping hardpacked snow or ice when necessary. Extended use of down force will considerably increase wear of cutting edges and wear shoes.

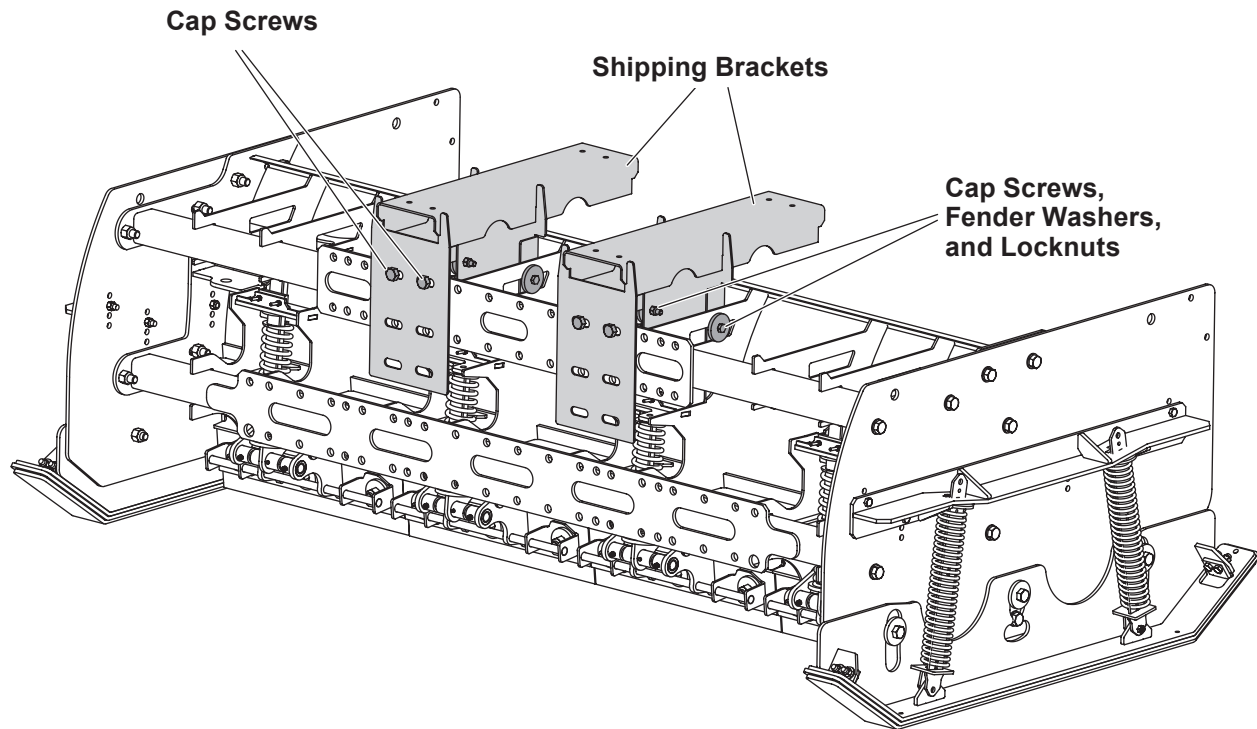


ASSEMBLY INSTRUCTIONS

Your pusher plow ships from the factory fully assembled. To prepare your snowplow for use, follow the steps below.

1. Remove and discard the shipping brackets and hardware shown.
2. Refer to the instructions packed with the attachment device to install it to your pusher plow and connect it to your vehicle.

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



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

Each floating segment has a 3/4" thick carbide cutting edge, offering longer wear life than standard cutting edges. Individual segments can be replaced 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 bolt-on AR400 high-carbon alloy wear shoes. The wear shoes sit flat on the surface to be plowed to prevent premature wear, to glide over obstacles, and to protect the pusher plow from impacts. Use caution and refer to the instructions included with the replacement service parts when removing and installing the wear shoes.



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This product conforms to EU Machinery Directive 2006/42/EC, The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment - Directive 2011/65/EU (RoHS2), and UNECE R10.05.



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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