

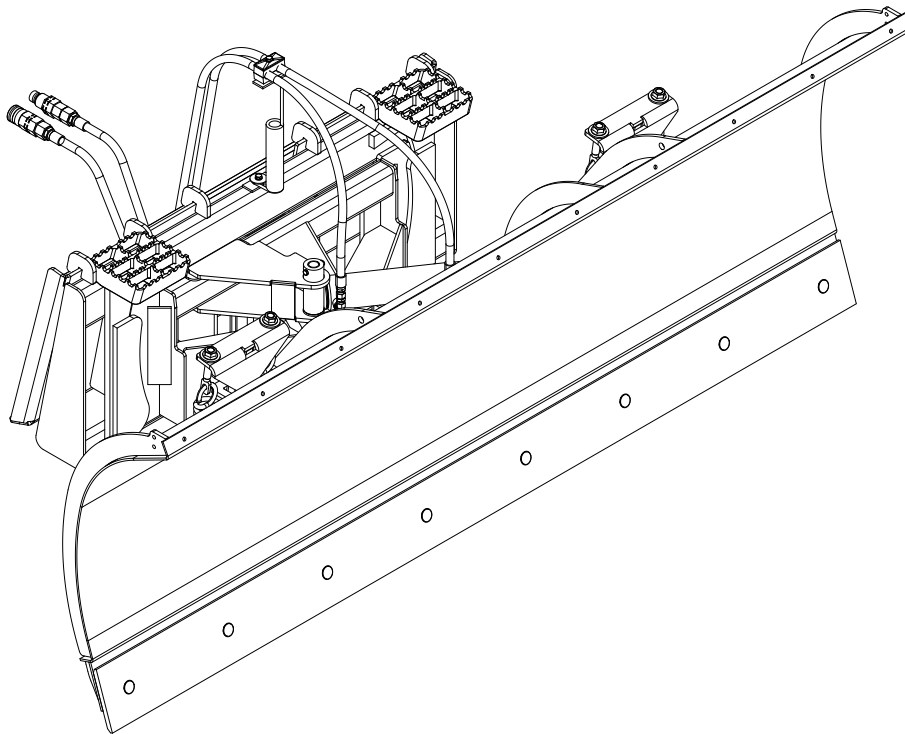


OPERATOR'S AND PARTS MANUAL

LIGHT MATERIAL / SNOW BLADE WITH TRIP EDGE



The Power of Combined Excellence



SERIAL NUMBER: _____

MODEL NUMBER: _____

Manual Number: 51-10039

Models:
12672, 12690, 12602 and 12619

Rev. 2

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INTRODUCTION

Congratulations on your purchase of a new FFC Snow Blade. This product has been designed and built to push snow forward only. In addition, light bulldozing may be performed (see SNOW BLADE OPERATION). You or any other person who will be assembling, operating, maintaining, or working with this product are required to read and completely understand the information and instructions contained in this manual. If anyone does not fully understand every part of this manual, please obtain further assistance by contacting the dealer from which this product was purchased or by contacting FFC at the telephone number or address listed on the cover of this manual. Keep this manual available for reference whenever this product is being handled or used. Provide this manual to any new owners and/or operators.

This manual covers model(s): **12672, 12690, 12602 and 12619.**

GENERAL INFORMATION

The purpose of this manual is to assist in assembling, mounting, operating, and maintaining your Snow Blade. Read this manual carefully to obtain valuable information and instructions that will help you achieve years of safe and dependable service.

The illustrations and data used in this manual were current at the time of printing, but due to possible engineering and/or production changes, this product may vary slightly in detail. FFC reserves the right to redesign and/or change components as may be necessary without notification to anyone.

Throughout this manual, references may be made to:

Prime Mover	The engine-driven machine to which this product must be attached.
Right, Left, Front, Rear	Directions that are determined in relation to the operator of the equipment when seated in the normal operation position.
IMPORTANT	Precautions that must be followed to prevent substandard performance.

SERIAL NUMBER LOCATION

Always refer to the model and serial number when ordering parts or requesting information from your dealer. The serial number plate for this product is located on the top left surface of the loader attachment plate of your Snow Blade.

Reference Information	
Model Number	Loader Make
Serial Number	Loader Model
Date Purchased	Loader Serial Number

SAFETY STATEMENTS



THIS SYMBOL BY ITSELF OR WITH A WARNING WORD THROUGHOUT THIS MANUAL IS USED TO CALL YOUR ATTENTION TO INSTRUCTIONS INVOLVING YOUR PERSONAL SAFETY OR THE SAFETY OF OTHERS. FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN INJURY OR DEATH.



DANGER

THIS SIGNAL WORD IS USED WHERE SERIOUS INJURY OR DEATH WILL RESULT IF THE INSTRUCTIONS ARE NOT FOLLOWED PROPERLY.



WARNING

THIS SIGNAL WORD IS USED WHERE SERIOUS INJURY OR DEATH COULD RESULT IF THE INSTRUCTIONS ARE NOT FOLLOWED PROPERLY.



CAUTION

THIS SIGNAL WORD IS USED WHERE MINOR INJURY COULD RESULT IF THE INSTRUCTIONS ARE NOT FOLLOWED PROPERLY.

NOTICE

NOTICE INDICATES A PROPERTY DAMAGE MESSAGE.

GENERAL SAFETY PRECAUTIONS

WARNING! READ MANUAL PRIOR TO INSTALLATION



Improper installation, operation, or maintenance of this equipment could result in serious injury or death. Operators and maintenance personnel should read this manual, as well as all manuals related to this equipment and the prime mover thoroughly before beginning installation, operation, or maintenance. **FOLLOW ALL SAFETY INSTRUCTIONS IN THIS MANUAL AND THE PRIME MOVER'S MANUAL(S).**



READ AND UNDERSTAND ALL SAFETY STATEMENTS

Read all safety decals and safety statements in all manuals prior to operating or working on this equipment. Know and obey all OSHA regulations, local laws, and other professional guidelines for your operation. Know and follow good work practices when assembling, maintaining, repairing, mounting, removing, or operating this equipment.



KNOW YOUR EQUIPMENT

Know your equipment's capabilities, dimensions and operations before operating. Visually inspect your equipment before you start, and never operate equipment that is not in proper working order with all safety devices intact. Check all hardware to ensure it is tight. Make certain that all locking pins, latches, and connection devices are properly installed and secured. Remove and replace any damaged, fatigued, or excessively worn parts. Make certain all safety decals are in place and are legible. Keep decals clean, and replace them if they become worn and hard to read.

GENERAL SAFETY PRECAUTIONS

WARNING! PROTECT AGAINST FLYING DEBRIS



Always wear proper safety glasses, goggles or a face shield when driving pins in or out, or when any operation causes dust, flying debris, or any other hazardous material.

WARNING! LOWER OR SUPPORT RAISED EQUIPMENT



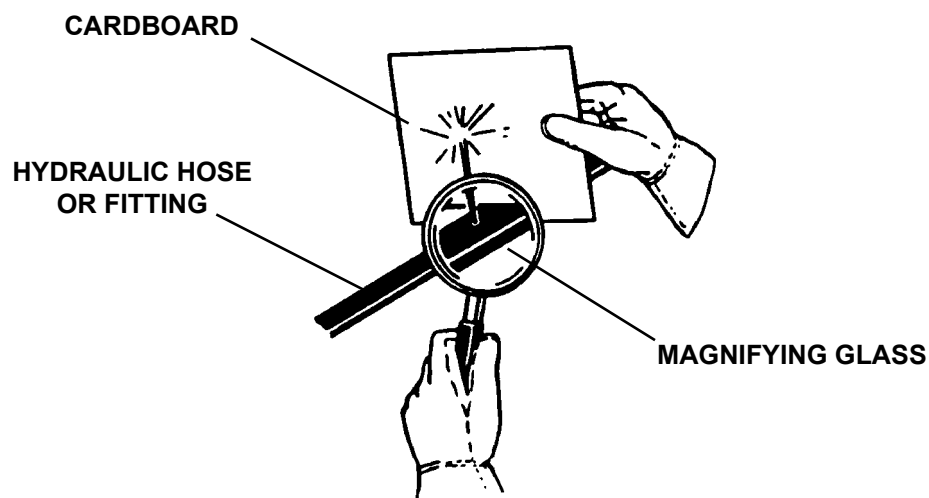
Do not work under raised booms without supporting them. Do not use support material made of concrete blocks, logs, buckets, barrels or any other material that could suddenly collapse or shift positions. Make sure support material is solid, not decayed, warped, twisted, or tapered. Lower booms to ground level or onto blocks. Lower booms and attachments to the ground before leaving the cab or operator's station.

WARNING! USE CARE WITH HYDRAULIC FLUID PRESSURE



Hydraulic fluid under pressure can penetrate the skin and cause serious injury or death. Hydraulic leaks under pressure may not be visible. Before connecting or disconnecting hydraulic hoses, read your prime movers operator's manual for detailed instructions on connecting and disconnecting hydraulic hoses or fittings.

- Keep unprotected body parts, such as face, eyes, and arms as far away as possible from a suspected leak. Flesh injected with hydraulic fluid may develop gangrene or other permanent disabilities.
- If injured by injected fluid, see a doctor at once. If your doctor is not familiar with this type of injury, ask him to research immediately to determine proper treatment.
- Wear safety glasses, protective clothing, and use a sound piece of cardboard or wood when searching for hydraulic leaks. **DO NOT USE YOUR HANDS!** **SEE ILLUSTRATION.**



GENERAL SAFETY PRECAUTIONS

WARNING! DO NOT MODIFY MACHINE OR ATTACHMENTS



Modifications may weaken the integrity of the attachment and may impair the function, safety, life, and performance of the attachment. When making repairs, use only the manufacturer's genuine parts, following authorized instructions. Other parts may be substandard in fit and quality. Never modify any ROPS (Roll Over Protection Structure) or FOPS (Falling Object Protective Structure) equipment or device. Any modifications must be authorized in writing by the manufacturer.

WARNING! SAFELY MAINTAIN AND REPAIR EQUIPMENT



- Do not wear loose clothing, or any accessories that can catch in moving parts. If you have long hair, cover or secure it so that it does not become entangled in the equipment.
- Work on a level surface in a well-lit area.
- Use properly grounded electrical outlets and tools.
- Use the correct tool for the job at hand. Make sure they are in good condition for the task required.
- Wear the protective equipment specified by the tool manufacturer.

WARNING! SAFELY OPERATE EQUIPMENT



Do not operate equipment until you are completely trained by a qualified operator in how to use the controls, know its capabilities, dimensions, and all safety requirements. See your machine's manual for these instructions.

- Keep all step plates, grab bars, pedals, and controls free of dirt, grease, debris, and oil.
- Never allow anyone to be around the equipment when it is operating.
- Do not allow riders on the attachment or the prime mover.
- Do not operate the equipment from anywhere other than the correct operators position.
- Never leave equipment unattended with the engine running or with this attachment in a raised position.
- Do not alter or remove any safety feature from the prime mover or this attachment.
- Know your work site safety rules as well as traffic rules and flow. When in doubt on any safety issue, contact your supervisor or safety coordinator for an explanation.

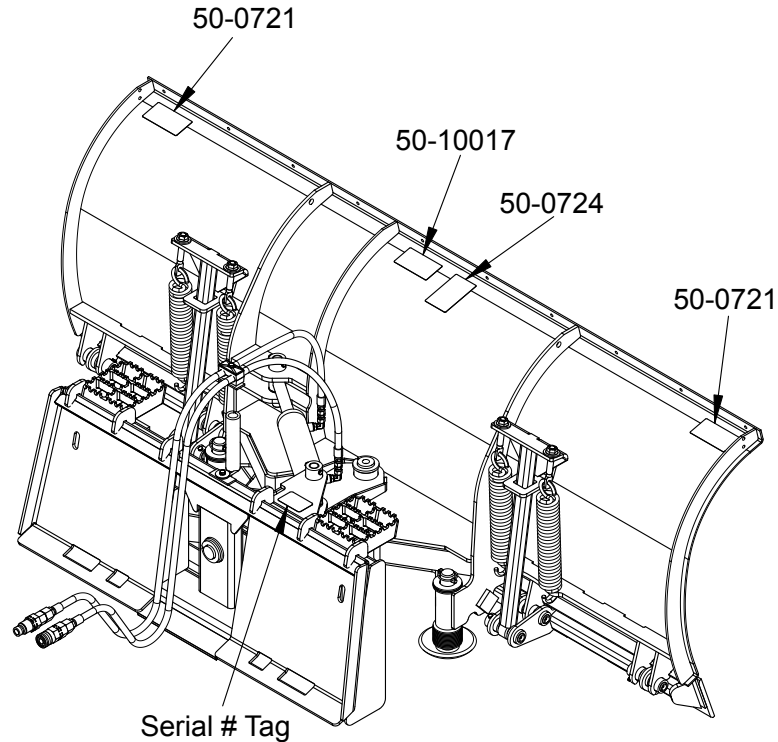
WARNING! KNOW WHERE UTILITIES ARE



Observe overhead electrical and other utility lines. Be sure equipment will clear them. When digging, call your local utilities for location of buried utility lines, gas, water, and sewer, as well as any other hazard you may encounter.

SAFETY SIGN LOCATIONS

The diagram on this page shows the location of the decals used on the FFC Light Material / Snow Blade with Trip Edge. The decals are identified by their part numbers, with reductions of the actual decals located on the following page. Use this information to order replacements for lost or damaged decals. Be sure to read all decals before operating the attachment. They contain information you need to know for both safety and product longevity.



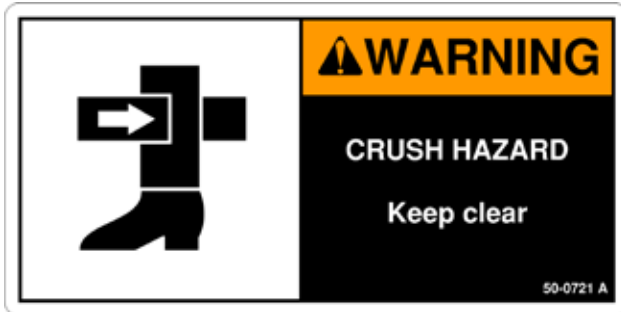
INSTRUCTIONS

- Keep all safety signs clean and legible.
- Replace all missing, illegible, or damaged safety signs.
- Replacement parts for parts with safety signs attached must also have safety signs attached.
- Safety signs are available, free of charge, from your dealer or from FFC.

PLACEMENT OR REPLACEMENT OF SAFETY SIGNS

1. Clean the area of application with non-flammable solvent, and then wash the same area with soap and water.
2. Allow the surface to fully dry.
3. Remove the backing from the safety sign, exposing the adhesive surface.
4. Apply the safety sign to the position shown in the diagram above and smooth out any bubbles.

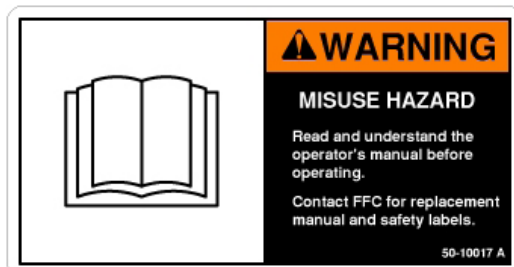
SAFETY SIGNS



PART # 50-0721
WARNING! CRUSH HAZARD



PART # 50-0724
WARNING! HIGH PRESSURE FLUID



PART # 50-10017
WARNING! READ MANUAL

PRIME MOVER SPECIFICATIONS

IMPORTANT Exceeding any of the maximum recommended prime mover specifications **CAN** result in damage to this product and **WILL** void all FFC warranties.

DESCRIPTION	SPECIFICATIONS
	12600 Series
Weight of Prime Mover without Snow Blade	11,000 lbs maximum
Hydraulic Pressure Output	3,500 psi maximum
Rear Ballast	As required to maintain full prime mover stability. (Note the Shipping Weight on the specifications page, then see the operator's manual(s) for your prime mover, loader, and quick-attach for ballasting needs.)

SNOW BLADE SPECIFICATIONS

Model Number	Overall Width	Overall Height*	Overall Depth	Cutting Width		Shipping Weight
				Straight	Max Angle	
12600 SERIES**						
12672	72"	33.69"	41.31"	72"	62.38"	670 lbs.
12690	90"	33.69"	41.31"	90"	77.88"	815 lbs.
12692	102"	33.69"	41.31"	102"	88.25"	925 lbs.
12619	119"	33.69"	41.31"	119"	103"	1040 lbs.

All replacement hydraulics must have a minimum rated working pressure of 4,000 psi.

* The overall height is also the height of the moldboard without the optional flap.

** The maximum angle is 30 degrees.

BOLT TORQUE SPECIFICATIONS

GENERAL TORQUE SPECIFICATION TABLES


Use the following charts when determining bolt torque specifications when special torques are not given. Always use grade 5 or better when replacing bolts.

SAE BOLT TORQUE SPECIFICATIONS


NOTE: The following torque values are for use with extreme pressure lubricants, plating or hard washer applications increase torque 15% when using hardware that is unplated and either dry or lubricated with engine oil.

Bolt Size		SAE GRADE 5 TORQUE				SAE GRADE 8 TORQUE				Bolt head identification marks as per grade. NOTE: Manufacturing Marks Will Vary
		Pounds Feet		Newton-Meters		Pounds Feet		Newton-Meters		
Inches	Millimeters	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	
1/4	6.35	8	9	11	12	10	13	14	18	
5/16	7.94	14	17	19	23	20	25	27	34	
3/8	9.53	30	36	41	49	38	46	52	62	
7/16	11.11	46	54	62	73	60	71	81	96	
1/2	12.70	68	82	92	111	94	112	127	152	
9/16	14.29	94	112	127	152	136	163	184	221	
5/8	15.88	128	153	174	207	187	224	254	304	
3/4	19.05	230	275	312	373	323	395	438	536	
7/8	22.23	340	408	461	553	510	612	691	830	
1	25.40	493	592	668	803	765	918	1037	1245	
1-1/8	25.58	680	748	922	1014	1088	1224	1475	1660	
1-1/4	31.75	952	1054	1291	1429	1547	1700	2097	2305	
1-3/8	34.93	1241	1428	1683	1936	2023	2312	2743	3135	
1-1/2	38.10	1649	1870	2236	2535	2686	3026	3642	4103	


GRADE 2



GRADE 5






GRADE 8



METRIC BOLT TORQUE SPECIFICATIONS

NOTE: The following torque values are for use with metric hardware that is unplated and either dry or lubricated with engine oil. Reduce torque 15% when using hardware that has extreme pressure lubricants, plating or hard washer applications.

Bolt head identification marks as per grade.		
		

Size of Bolt	Grade No.	Pitch (mm)	Pounds Feet	Newton-Meters	Pitch (mm)	Pounds Feet	Newton-Meters
M6	5.6	1.0	3.6-5.8	4.9-7.9	-	-	-
	8.8		5.8-4	7.9-12.7		-	-
	10.9		7.2-10	9.8-13.6		-	-
M8	5.6	1.25	7.2-14	9.8-19	1.0	12-17	16.3-23
	8.8		17-22	23-29.8		19-27	25.7-36.6
	10.9		20-26	27.1-35.2		22-31	29.8-42
M10	5.6	1.5	20-25	27.1-33.9	1.25	20-29	27.1-39.3
	8.8		34-40	46.1-54.2		35-47	47.4-63.7
	10.9		38-46	51.5-62.3		40-52	54.2-70.5
M12	5.6	1.75	28-34	37.9-46.1	1.25	31-41	42-55.6
	8.8		51-59	69.1-79.9		56-68	75.9-92.1
	10.9		57-66	77.2-89.4		62-75	84-101.6
M14	5.6	2.0	49-56	66.4-75.9	1.5	52-64	70.5-86.7
	8.8		81-93	109.8-126		90-106	122-143.6
	10.9		96-109	130.1-147.7		107-124	145-168
M16	5.6	2.0	67-77	90.8-104.3	1.5	69-83	93.5-112.5
	8.8		116-130	157.2-176.2		120-138	162.6-187
	10.9		129-145	174.8-196.5		140-158	189.7-214.1
M18	5.6	2.0	88-100	119.2-136	1.5	100-117	136-158.5
	8.8		150-168	203.3-227.6		177-199	239.8-269.6
	10.9		175-194	237.1-262.9		202-231	273.7-313
M20	5.6	2.5	108-130	146.3-176.2	1.5	132-150	178.9-203.3
	8.8		186-205	252-277.8		206-242	279.1-327.9
	10.9		213-249	288.6-337.4		246-289	333.3-391.6

SNOW BLADE MOUNTING

WARNING! READ MANUAL PRIOR TO INSTALLATION



Improper installation, operation, or maintenance of this equipment could result in serious injury or death. Operators and maintenance personnel should read this manual, as well as all manuals related to this equipment and the prime mover thoroughly before beginning installation, operation, or maintenance. **FOLLOW ALL SAFETY INSTRUCTIONS IN THIS MANUAL AND THE PRIME MOVER'S MANUAL(S).**

1. Place this product on a firm, level surface that is large enough to safely accommodate this product, your prime mover and all workers involved in the mounting process.
2. Refer to the operator's manual(s) for your prime mover, loader, and quick-attach and follow the mounting instructions contained therein.

IMPORTANT Lubricate all grease fittings before connecting this product to your prime mover's hydraulic system. Refer to **SNOW BLADE MAINTENANCE** and follow the instructions

SNOW BLADE HYDRAULIC CONNECTION



READ AND UNDERSTAND ALL SAFETY STATEMENTS

Read all safety decals and safety statements in all manuals before beginning any Snow Blower hydraulic connection. Know and obey all OSHA regulations, local laws, and other professional guidelines for your operation. Know and follow good work practices when assembling, maintaining, repairing, mounting, removing, or operating this equipment.

1. You must purchase and install two hydraulic hoses that have fittings permanently attached to each end. These hoses and fittings must meet the following specifications: (NOTE: If your Snow Blade was supplied with hoses, skip to step 4.)
 - Inside Diameter:0.375" (3/8")
 - Minimum Operating Pressure: ..4,000 psi.
 - Hose End Fittings:One hose end must be a #6 female JIC fitting. The fitting for the other end can be whatever you determine to be the most beneficial to making the connection to your prime mover.
 - Length:You must make this determination based upon recommendations provided in your prime mover's operator's manual. The hoses must be long enough to avoid applying any tension to them (i.e. stretching) in all operating positions of this product. The hoses must not be excessively long either, because this could cause the hoses to drag on the ground, be pinched in the equipment, become entangled in moving parts, etc., any of which will shorten the life of the hose and could cause injury to the operator or others near the equipment.
2. Remove all the protective plastic caps from the hose ends and this product's connection fittings.
3. Make certain that the male and female threads, as well as the inside of the hoses, are clean, then place the #6 hose ends on/in to the fittings on this product and tighten to 21 ft. lbs., ± 1,9 ft. lbs. (#6 is 9/16" dia. with 18 tpi.)
4. Make the connection to your prime mover using the appropriate method below for your prime mover:
 - If your prime mover has male or female threads for connecting the hydraulic hoses to the auxiliary hydraulic lines, make certain that the threads, as well as the inside of the fittings and hoses, are clean, then secure the hoses to the fittings using the torque specified in your prime mover's operator's manual.
 - If your prime mover has quick-couplers for connecting the hydraulic hoses to the auxiliary hydraulic lines, you may need to purchase the proper quick-coupler fittings that you must install on the free ends of the two hoses. In most cases, the owner's manual for your prime mover will describe the exact type of fitting that is needed for your hydraulic coupling system, but in no case should any fitting have an allowable operating pressure of less than 4,000 psi. Once all the quick-coupler fittings are properly installed, then the hoses can be coupled to the prime mover's hydraulic valve body or auxiliary hydraulic lines as per the instructions found in your prime mover's operator's manual.
5. Carefully raise the loader and cycle the tilt cylinders to check hose clearances and to check for any interference. Operate the hydraulic cylinder(s) on this product to make the same checks.
6. Cycle the hydraulic cylinder(s) on this product several times from fully retracted to fully extended until all air has been completely removed from the cylinder(s).

WARNING! Do not lock the auxiliary hydraulics of your prime mover in the "ON" position. Failure to obey this warning could result in death or serious injury.



NOTICE: When shipped, the hydraulic cylinder(s) on this product contained air or an air-fluid mixture. There are orifices beneath the port(s) in the hydraulic cylinder barrel(s) that will restrict the exit of that air. Failure to remove all the air from the hydraulic cylinder(s) can cause uneven, jerky cylinder movement when the hydraulic controls are being operated and unwanted cylinder movement when the controls are not being operated.

SNOW BLADE SETUP



READ AND UNDERSTAND ALL SAFETY STATEMENTS

Read all safety decals and safety statements in all manuals before beginning any Snow Blower setup. Know and obey all OSHA regulations, local laws, and other professional guidelines for your operation. Know and follow good work practices when assembling, maintaining, repairing, mounting, removing, or operating this equipment.

SPRING SETUP

1. Park your prime mover on a level surface with this product properly attached.
2. Place your prime mover's transmission in "Park" and engage the parking brake.
3. Lower this product onto the level surface.
4. Shut off your prime mover's engine, remove the starter key, wait for all moving parts to come to a stop, and relieve all pressure in the hydraulic lines.
5. Make sure that the springs on your Snow Blade comply with the specifications listed in the appropriate table below.

RECOMMENDED SPRING SETUP LENGTHS				
Blade Width	6'	7.5'	8.5'	10'
Recommended Spring Setup Length*:	14.38"			
(Max. Length Permitted: 15.13")				

*NOTE: The "Spring Setup Lengths" are measured from the inside of one hook to the inside of the other hook. The relaxed length of a spring is 14".

6. Test operate your Snow Blade. If the edge trips too easily, perform the following steps as needed:
 - A. Repeat the preceding steps (1 through 4).
 - B. First, try tightening the spade (or eye) bolts to lengthen the springs.

IMPORTANT Lengthening the springs beyond the maximums listed in the "SPRING SETUP LENGTHS" table

CAN result in damage to this product and
WILL void all FFC warranties.

- C. Test operate you Snow Blade again. If the edge still trips too easily, then contact FFC.

INSTALLATION OF OPTIONAL RUBBER OR POLYURETHANE EDGES

1. Remove the standard wear edge as per steps 1 through 7 on the "SNOW BLADE SERVICE (REPLACEMENT OF WEAR EDGE)" page and set aside the wear edge and all bolts.
2. Insert the bolts provided with the rubber or polyurethane edge through the steel strip, the edge, and the base of the moldboard. Secure the bolts with the nuts provided.

SNOW BLADE OPERATION



READ AND UNDERSTAND ALL SAFETY STATEMENTS

Read all safety decals and safety statements in all manuals prior to operating or working on this equipment. Know and obey all OSHA regulations, local laws, and other professional guidelines for your operation. Know and follow good work practices when assembling, maintaining, repairing, mounting, removing, or operating this equipment.

WARNING! Failure to obey the following procedures could result in death or serious injury.



- Never lift this product (a.) above the operator's eye level or (b.) to a height where visibility is obstructed, whichever is lower.
- Do not exceed 15 miles per hour while operating.

IMPORTANT Striking solid objects hidden in snow OR pushing materials other than snow CAN result in damage to this product and WILL void all FFC warranties.

Before any snowfall, inspect the site where your Snow Blade is to be used. Locate any obstructions (i.e. curbs, sidewalks, parking bumpers, pipes, shrubs, fences, etc.) and any variations in elevation (i.e. retaining walls, slopes, holes, etc.) so that these elements can be avoided during the snow plowing operation.

This Snow Blade may be used for dozing light, loose materials.

IMPORTANT Dozing of undisturbed soil, heavy materials, or similar items CAN result in damage to this product and WILL void all FFC warranties.

SNOW BLADE MAINTENANCE



READ AND UNDERSTAND ALL SAFETY STATEMENTS

Read all safety decals and safety statements in all manuals prior to operating or working on this equipment. Know and obey all OSHA regulations, local laws, and other professional guidelines for your operation. Know and follow good work practices when assembling, maintaining, repairing, mounting, removing, or operating this equipment.

BEFORE EACH USE

- Make sure that all nuts and bolts are in place and properly tightened.
- Make sure that all other fasteners are in place and are performing their specified function.
- Make sure that all hydraulic fittings are tightened and that there are no leaks in any fittings or hoses.
- Make sure that all safety signs are in place, are clean, and are legible.
(SEE THE SAFETY SIGN SECTION.)
- Replace any damaged parts and excessively worn parts.

AFTER EVERY 10 HOURS OF USE

- Grease all grease fittings: see Parts Illustrations and Parts Lists for reference.

SNOW BLADE SERVICE



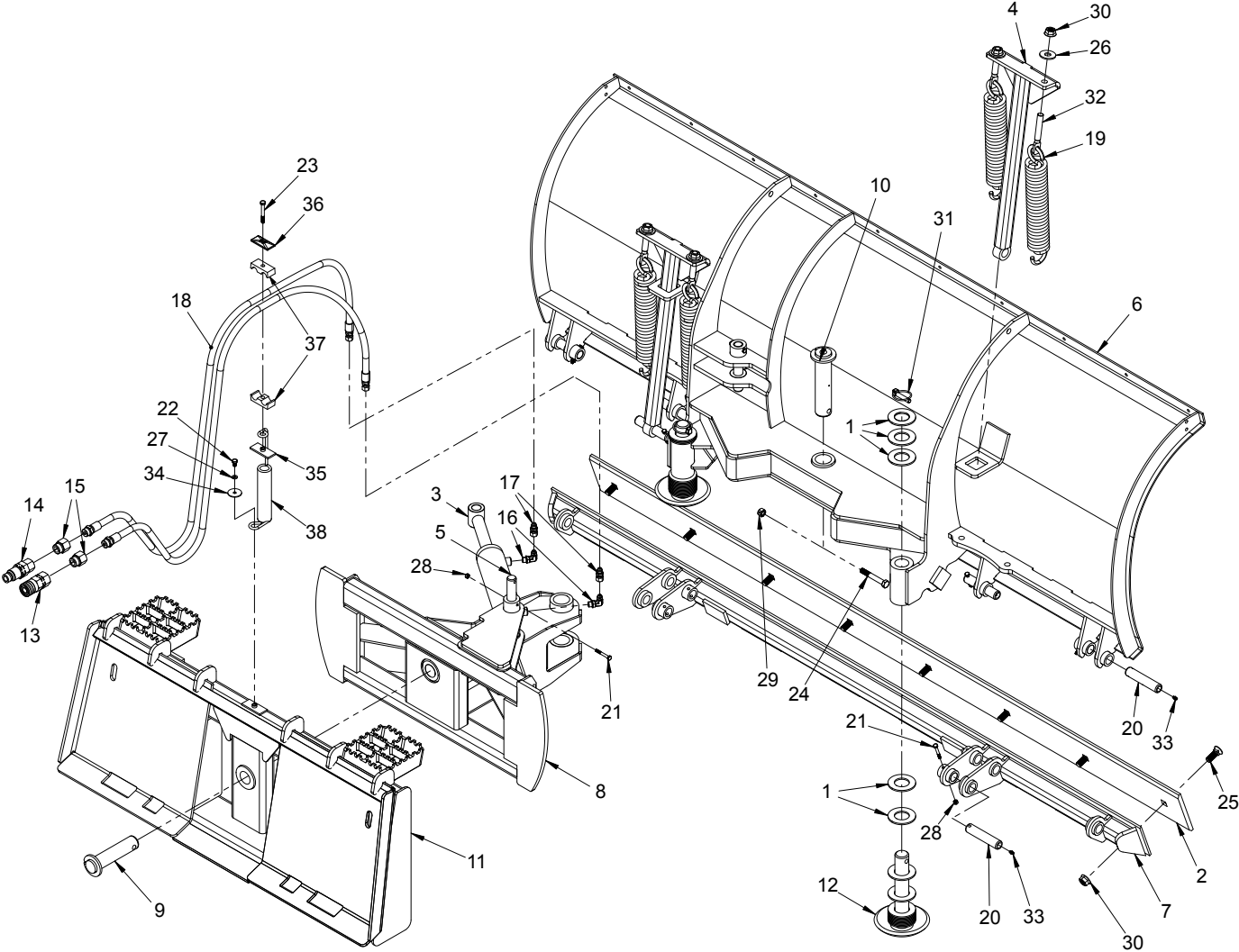
READ AND UNDERSTAND ALL SAFETY STATEMENTS

Read all safety decals and safety statements in all manuals prior to operating or working on this equipment. Know and obey all OSHA regulations, local laws, and other professional guidelines for your operation. Know and follow good work practices when assembling, maintaining, repairing, mounting, removing, or operating this equipment.

REPLACEMENT OF WEAR EDGE

1. Park your prime mover on a level surface with this product properly attached.
2. Place your prime mover's transmission in "Park" and engage the parking brake.
3. Lower this product onto blocking positioned immediately behind the moldboard. This blocking must be of sufficient height to hold the wear edge approximately 6" to 8" above the level surface.
4. Shut off your prime mover's engine, remove the starter key, wait for all moving parts to come to a stop, and relieve all pressure in the hydraulic lines.
5. Loosen the nuts on all the wear edge bolts and remove all nuts and wear edge bolts except the bolts on end of the wear edge.
6. While holding up the end of the wear edge, remove the nut and bolt from that end and allow that end to pivot down to the level surface.
7. Repeat step 6 for the other end of the wear edge. Properly dispose of the wear edge and all bolts and nuts. These edges are reversible and may be flipped top-to-bottom for reinstallation.
8. Reinstall a new wear edge by reversing the procedures in steps 7 through 5 and tightening the nuts to 150 ft. lbs.

12600 SERIES SNOW BLADE PARTS ILLUSTRATION



12600 SERIES SNOW BLADE PARTS LIST

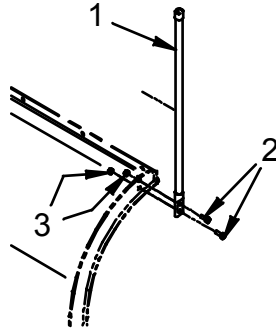
ITEM	QTY.	6' 12672	7.5' 12690	8.5' 12602	10' 12619	DESCRIPTION
1	32				07-10126	Grade 5 Flat Washer SAE 1.63"
**2	1	13-52843	102649	102650	13-52876	Wear Edge Double Bevel .5" x 6" w/ Sq. Holes
3	1				102654	Hydraulic Cylinder 2.5" piston, 8" stroke, 3000 psi. (Cylinder Seal Kit = 45617)
4	2				13-51846	Trip Spring Arm Weld
5	2				13-51873	Rod 1" x 6" w/ Features
6	1	13-53296	13-53245	13-53301	13-53306	Mold Board Weld
7	1	13-53298	13-53259	13-53303	13-53308	Trip Edge Weld
8	1				13-53268	Swivel Weld
9	1				13-53284	Tilt Pin Weld
10	1				13-53287	Angle Pin Weld
11	1				13-53295	Main Frame Weld
12	2				LAF1485	Skid Shoe Casting
*13	1				P272670	Hydraulic Coupler Female 12FB
*14	1				P272671	Hydraulic Coupler Male 12FB
*15	2				03-4618	Hydraulic Adapter 10FB-12MB
16	2				P261350	Hydraulic Elbow 90° 6MP-6MJ
17	2				LAF4300	Orifice 6MJ-6FJ .062" Dia.
*18	2				LAF4356	Hydraulic Hose .38" x 87" 6FJ-10MB Sheathed
19	4				LAF6405	Trip Spring
20	6				LAF9978	Rod 1" x 4.75" SP Pin (Greaseable) w/ Zerk
21	8				07-3022	Grade 8 Hex Head Cap Screw .25"-20 x 2"
22	1				RHW1101	Grade 5 Hex Head Cap Screw .31"-18 x .5"
23	1				RHW1112	Grade 5 Hex Head Cap Screw .31"-18 x 2.5"
24	2				RHW1413	Grade 5 Hex Head Cap Screw .5"-13 x 3.5"
**25	varies	(6)	(8)	(9)	(10) RHW2663	Grade 8 Plow Bolt .63"-11 x 1.75"
26	4				RHW5662	Grade 5 Flat Washer USS .63"
27	1				P851105	Grade 5 Lock Washer .31"
28	8				RHW7003	Grade 5 Center Dent Lock Nut .25"
29	2				RHW7403	Grade 5 Center Dent Lock Nut .5"
**30	varies	(10)	(12)	(13)	(14) RHW7607	Grade 8 Top Lock Flange Nut .63"-11
31	2				RHW8064	Lynch Pin .44" x 1.63" Large Ring
32	4				RHW8065	Grade 2 Spade Bolt .63" x 4.75"
33	7				07-3112	Grease Zerk .25" 28 tip, self-tapping
34	1				RHW8098	Grade 2 Fender Washer .08 x .31 x 1.50
35	1				RHW8613	Weld Plate f/ .88 OD
36	1				RHW8614	Cover Plate f/ .88 OD
37	2				RHW8616	Hose Cradle f/ .88 OD
38	1				RHW8618	Hose Spring

NOTE: All parts are the same as the 12619 except for those parts numbered under the other models.

***ITEM may vary per Skid Steer -- Contact FFC for correct item.**

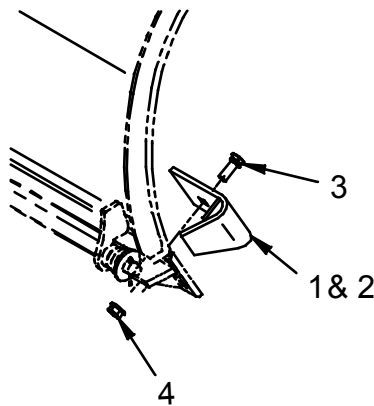
****ITEMS included in STEEL EDGE REPLACEMENT KITS: 11614 (6'), 11610 (7.5'), 11611 (8.5'), or 11615 (10').**

12600 SERIES SNOW BLADE OPTIONAL KITS



11601 MARKER KIT

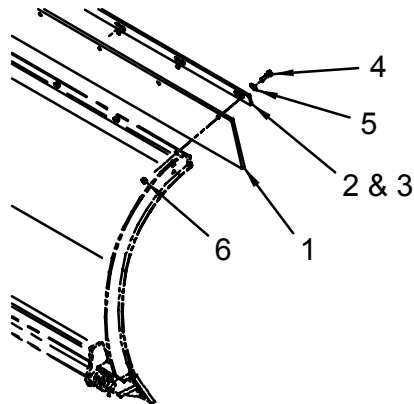
ITEM	QTY	PART #	DESCRIPTION
1	2	103006	Marker Orange 28"
2	4	RHW1105	Grade 5 Hex head Cap Screw .31-18 x 1.00
3	4	RHW7103	Grade 5 Center Dent Lock Nut .31



11603 CURB GUARD KIT

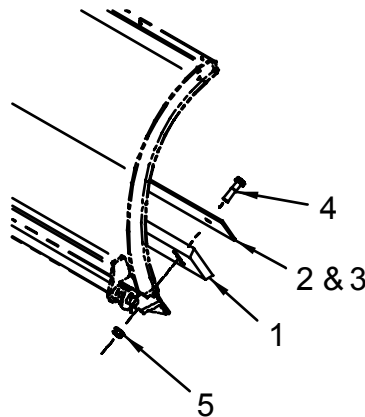
ITEM	QTY	PART #	DESCRIPTION
1	1	103293	Curb Guard Weld LH
2	1	103294	Curb Guard Weld RH
3	2	RHW2664	Grade 8 Plow Bolt .63-11 x 2.00
4	2	RHW7607	Grade 8 Top Lock Flange Nut .63-11

12600 SERIES SNOW BLADE OPTIONAL KITS



SNOW DEFLECTOR KITS

ITEM	QTY.	72" 11616	90" 11606	102" 11607	119" 11617	DESCRIPTION
1	1	13-52870	103296	103299	13-52871	Rubber Deflector Edge .38 x 8.00
2	varies	(1) 13-52874	(2) 13-51871	(1) 13-51871	(1) 13-52874	Deflector Edge Strap
3	1	n/a	n/a	13-51872	13-52875	Deflector Edge Strap
4	varies	(8)	(10)	(11)	(13) P100505	Grade 5 Hex Head Cap Screw .31-18 x 1.25
5	varies	(8)	(10)	(11)	(13) RHW5162	Grade 5 Flat Washer USS .31
6	varies	(8)	(10)	(11)	(13) RHW7103	Grade 5 Center Dent Lock Nut .31



CUTTER BAR RUBBER KITS

ITEM	QTY.	72" 11618	90" 11608	102" 11609	119" 11620	DESCRIPTION
1	1	13-52872	103331	103332	13-52873	Rubber Edge 1.00 x 6.00
2	varies	(1) LAF9410	(2) 13-51902	(1) 13-51902	(2) LAF9409	Retainer Plate
3	1	n/a	n/a	13-51903	n/a	Retainer Plate
4	varies	(6)	(8)	(9)	(10) P101010	Grade 5 Hex Head Cap Screw .63-11 x 2.50
5	varies	(6)	(8)	(9)	(10) RHW7607	Grade 8 Top Lock Flange Nut .63-11

Limited Warranty

Except for the Excluded Products as described below, all new products are warranted to be free from defects in material and/or workmanship during the Warranty Period, in accordance with and subject to the terms and conditions of this Limited Warranty.

1. Excluded Products. The following products are excluded from this Limited Warranty:

(a) Any cable, part that engages with the ground (i.e. sprockets), digging chain, bearing, teeth, tamping and/or demolition head, blade cutting edge, pilot bit, auger teeth and broom brush that either constitutes or is part of a product.

(b) Any product, merchandise or component that, in the opinion of Paladin Light Construction¹, has been (i) misused; (ii) modified in any unauthorized manner; (iii) altered; (iv) damaged; (v) involved in an accident; or (vi) repaired using parts not obtained through Paladin Light Construction.

2. Warranty Period. The Limited Warranty is provided only to those defects that occur during the Warranty Period, which is the period that begins on the first to occur of: (i) the date of initial purchase by an end-user, (ii) the date the product is first leased or rented, or (iii) the date that is six (6) months after the date of shipment by Paladin Light Construction as evidenced by the invoiced shipment date (the "Commencement Date") and ends on the date that is twelve (12) months after the Commencement Date.

3. Terms and Conditions of Limited Warranty. The following terms and conditions apply to the Limited Warranty hereby provided:

(a) Option to Repair or Replace. Paladin Light Construction shall have the option to repair or replace the product.

(b) Timely Repair and Notice. In order to obtain the Limited Warranty, (i) the product must be repaired within thirty (30) days from the date of failure, and (ii) a claim under the warranty must be submitted to Paladin Light Construction in writing within thirty (30) days from the date of repair.

(c) Return of Defective Part or Product. If requested by Paladin Light Construction, the alleged defective part or product shall be shipped to Paladin Light Construction at its manufacturing facility or other location specified by Paladin Light Construction, with freight PRE-PAID by the claimant, to allow Paladin Light Construction to inspect the part or product.

Claims that fail to comply with any of the above terms and conditions shall be denied.

LIMITATIONS AND EXCLUSIONS.

THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND ANY WARRANTY BASED ON A COURSE OF DEALING OR USAGE OF TRADE.

IN NO EVENT SHALL PALADIN LIGHT CONSTRUCTION BE LIABLE FOR CONSEQUENTIAL OR SPECIAL DAMAGES.

IN NO EVENT SHALL PALADIN LIGHT CONSTRUCTION BE LIABLE FOR ANY LOSS OR CLAIM IN AN AMOUNT IN EXCESS OF THE PURCHASE PRICE, OR, AT THE OPTION OF PALADIN LIGHT CONSTRUCTION, THE REPAIR OR REPLACEMENT, OF THE PARTICULAR PRODUCT ON WHICH ANY CLAIM OF LOSS OR DAMAGE IS BASED. THIS LIMITATION OF LIABILITY APPLIES IRRESPECTIVE OF WHETHER THE CLAIM IS BASED ON BREACH OF CONTRACT, BREACH OF WARRANTY, NEGLIGENCE OR OTHER CAUSE AND WHETHER THE ALLEGED DEFECT IS DISCOVERABLE OR LATENT.

¹Attachment Technologies Inc., a subsidiary of Paladin Brands Holding, Inc. (PBHI) is referred to herein as Paladin Light Construction.

February 10, 2010

