



JACOBSEN[®]

OWNER/OPERATOR'S MANUAL & ILLUSTRATED PARTS LIST

MODELS:

73-70506	DOZER BLADE-48" BD248
73-70526	DOZER BLADE-60" BD260
73-70546	DOZER BLADE-72" BD272



WARNING: If incorrectly used this machine can cause severe injury. Those who use and maintain this machine should be trained in its proper use, warned of its dangers and should read the entire manual before attempting to set up, operate, adjust or service the machine.



09-482 REV B

**CALIFORNIA
Proposition 65 Warning**

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.



WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Californie Proposition 65
Avertissement**

Les échappements des moteurs diesel et certains de leurs composés sont reconnus par l'Etat de Californie pour être cancérigènes, provoquer des défauts congénitaux et d'autres dangers en matière de reproduction.



AVERTISSEMENT

L'émission du moteur de ce matériel contient des produits chimiques que l'Etat de Californie considère être cancérigènes, provoquer des défauts congénitaux et d'autres dangers en matière de reproduction.

**California Advertencia
de la Proposicion 65**

El estado de California hace saber que los gases de escape de los motores diesel y algunos de sus componentes producen cáncer, defectos de nacimiento y otros daños en el proceso de reproducción humana.



ADVERTENCIA

El estado de California hace saber que los gases de escape de este producto contienen productos químicos que producen cáncer, defectos de nacimiento y otros daños en el proceso de reproducción humana.

IMPORTANT MESSAGE

Thank you for purchasing this Jacobsen product. You have purchased a world class product, one of the best designed and built anywhere.

This product comes with an Owner/Operator's Manual. The useful life and good service you receive from this product depends to a large extent on how well you read and understand this manual. Treat this product properly and adjust it as instructed, and it will give you many years of reliable service.

See a Jacobsen dealer for any service or parts needed. Jacobsen service ensures that you continue to receive the best results possible from Jacobsen products. You can trust Jacobsen replacement parts because they are manufactured with the same high precision and quality as the original parts.

Jacobsen designs and builds its equipment to serve many years in a safe and productive manner. For longest life, use this product only as directed in the manual, keep it in good repair and follow safety warnings and instructions. You'll always be glad you did.

Jacobsen, a Textron Company
One Bob Cat Lane
Johnson Creek, WI 53038-0469

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DESCRIPTION

The Power Angle Blade is designed to be used on Steiner power units equipped with a front lift quick hitch and auxiliary hydraulic outlets. Fast, simple installation provides reliable dozing for light landscaping or snow removal. The Power Angle Blade allows the operator many choices of blade position. The blade may be power angled straight ahead, to the right or left, and any angle in between. The Manual Angle Blade allows the operator three choices of blade position. The blade may be angled straight ahead, to the right or to the left. Skid shoes are adjustable for various surface conditions to minimize cutting edge wear. The blade is equipped with safety springs for protection in the event that the blade strikes a solid object.

SPECIFICATIONS

	Manual Angle	Power Angle
Overall Width: BD148	48"	
BD160	60"	
Overall Width: BD248		48"
BD260		60"
BD272		72"
Overall Height:	19"	19"
Overall Length:	26"	32"
Blade height from cutting edge:	19"	19"
Manual angling:	25° left & right	
Hydraulic angling:		30° left & right
Cutting width, Angled 30°:		BD248 36"
		BD260 48"
		BD272 60"
Skid Shoes:	Adjustable	Adjustable
Forward Tilt:	Spring-loaded	Spring-loaded
Reversible cutting edge:	3" hardened	3" hardened
Ground clearance:	14"(Model 420/430)	14"(Model 420/430)
Weight: BD148	135 lbs.	
BD160	160 lbs.	
Weight: BD248		160 lbs.
BD260		185 lbs.
BD272		205 lbs.

*** These specifications are subject to change without notice.**

NOTICE !!!

Unauthorized modifications may present **extreme** safety hazards to operators and bystanders and could also result in product damage.

Jacobsen, a Textron Company strongly warns against, rejects and disclaims any modifications, add-on accessories or product alterations that are not designed, developed, tested and approved by Jacobsen Engineering Department. Any Jacobsen product that is altered, modified or changed in any manner not specifically authorized after original manufacture—including the addition of “after-market” accessories or component parts not specifically approved by Jacobsen—will result in the Jacobsen Warranty being voided.

Any and all liability for personal injury and/or property damage caused by any unauthorized modifications, add-on accessories or products not approved by Jacobsen will be considered the responsibility of the individual(s) or company designing and/or making such changes. Jacobsen will vigorously pursue full indemnification and costs from any party responsible for such unauthorized post-manufacture modifications and/or accessories should personal injury and/or property damage result.



This symbol means:
ATTENTION!
BECOME ALERT!

Your safety and the safety of others is involved.

Signal word definitions:

The signal words below are used to identify levels of hazard seriousness. These words appear in this manual and on the safety labels attached to Jacobsen machines. For your safety and the safety of others, read and follow the information given with these signal words and/or the symbol shown above.

DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, **WILL** result in death or serious injury.

WARNING

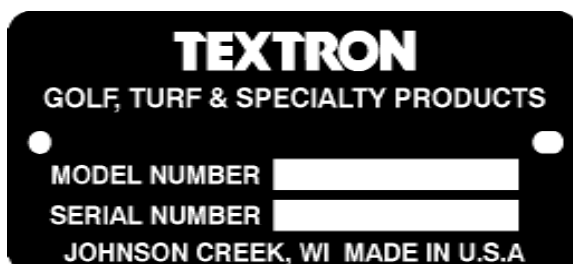
WARNING indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury.

CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, **MAY** result in minor or moderate injury. It may also be used to alert against unsafe practices or property damage.

CAUTION

CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, **MAY** result in property damage



MODEL NUMBER: This number appears on sales literature, technical manuals and price lists.

SERIAL NUMBER: This number appears only on your mower. It contains the model number followed consecutively by the serial number. Use this number when ordering parts or seeking warranty information.

GENERAL SAFETY

1. Read and understand the Owner's Manual before attempting to operate this machine.
2. Operate all controls from the operator's seat. **NO RIDERS.**
3. Keep all shields in place and safety switches adjusted properly.
4. Do not leave equipment unattended. STOP the engine and remove the key.
5. Do not allow minors or the inexperienced to operate this machine.
6. Keep people and pets a safe distance away from machine using power driven attachments. Injury could result from flying debris.

OPERATING SAFETY

1. **DO NOT** attempt to work on unit or any attachments with the engine running. **STOP ENGINE!**
2. Before leaving the tractor seat:
 - **Lower Blade**
 - **Set PARKING brake**
 - **Stop engine**

WARNING

To prevent damage to blade and possible injury to operator, always remove safety trip lock-out pin when operating at high speeds.

ASSEMBLY INSTRUCTIONS

Manual Angle Blade:

1. Remove blade and attaching parts from shipping container and place blade face down on a level floor.
2. See Figures 1 & 3 in the parts section for parts identification. Attach the subframe to the blade with rod and cotter pins as shown.
3. Hook safety trip springs over sub-frame arms and install adjusters through tabs on the blade. Tighten until about 1/2" of thread extends beyond the nut.
4. Install skid shoes as shown in Figure 1 using 2 bolts in each shoe and adjust as needed to minimize cutting edge wear.

Power Angle Blade:

1. Remove blade and attaching parts from shipping container and place blade face down on a level floor.
2. See Figures 1 & 2 for parts identification. Attach the subframe to the blade with rod and cotter pins as shown.
3. Hook safety trip springs over sub-frame arms and install adjusters through tabs on the blade. Tighten until about 1/2" of thread extends beyond the nut.
4. Connect hoses to the cylinder and pass them through the round hole in the side of the sub-frame. Install the blade on the tractor and hook up the hoses to the quick couplers.

NOTE: To reverse auxiliary hydraulic lever action, switch the hoses at the quick couplers.

5. Leveling adjustment:
 - A. Place tractor with blade installed on a level floor.
 - B. Raise blade 1" off the floor and move to straight position.
 - C. Adjust to obtain equal blade corner heights, in this position, with the two small bolts at the top of the pivot ball.
 - D. Angle blade to the extreme right position. Adjust to obtain equal blade corner heights in this position using the 5/8" bolt in the top pivot ball. Angle to the extreme left position and check again. The ideal setting is to have the blade touch the floor equally in all positions.
6. Install skid shoes as shown in Figure 1 using 2 bolts in each shoe and adjust as needed to minimize cutting edge wear.

INSTALLATION INSTRUCTIONS

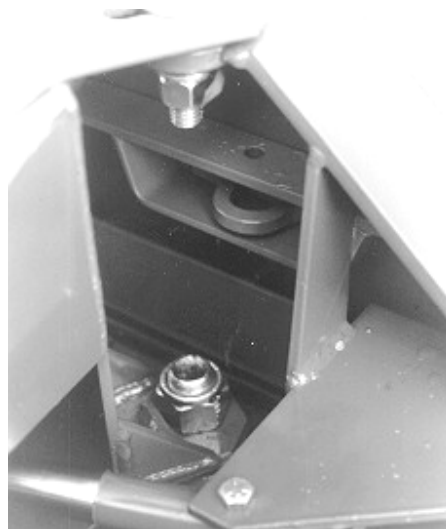
1. Attach blade to “quick hitch” front lift in the usual manner.
2. Raise the “kick stand” to transport position.
3. **Power Angle:** Connect the hoses to the auxiliary quick couplers.

NOTE: To reverse the auxiliary hydraulic lever action, switch the hoses at the quick couplers.

1. The **Power Angle** allows the operator many choices of blade position. The blade may be power angled straight ahead, to the right or left , or any position in between.
2. The **Manual Angle** allows the operator three choices of blade position. The blade may be angled straight ahead, to the right or left.
3. Skid shoes are adjustable for various surface conditions to minimize cutting edge wear.
4. Safety trip springs will allow the blade to trip when it hits a solid object. Provision is made to lock the safety trip device for dozing in dirt or heavy material, by inserting a 3/8 x 2" pin in a hole located near the center of the blade frame. **ALWAYS remove the safety trip lock-out pin when traveling at high speeds such as during snow removal!** Photo shows pin removed.

CAUTION

Remove safety trip lock-out pin for high speed operation of blade.



1. Check skid shoes and cutting edge periodically for wear and replace the cutting edge as required to prevent wear to the main blade edge.

NOTE: Cutting edge is reversible for additional wear life.

2. Check safety trip and springs to assure proper operation.
3. Grease pivot ball at 100 hour intervals.
4. Keep it clean!

Power Angle Blade Leveling Adjustment

- A. Place tractor with blade installed on a level floor.
- B. Raise blade 1" off the floor and move to straight position.
- C. Adjust to obtain equal blade corner heights, in this position, with the two small bolts at the top of the pivot ball.
- D. Angle blade to the extreme right position. Adjust to obtain equal blade corner heights in this position using the 5/8" bolt in the top pivot ball. Angle to the extreme left position and check again. The ideal setting is to have the blade touch the floor equally in all positions.

**ANGLE
BLADE**

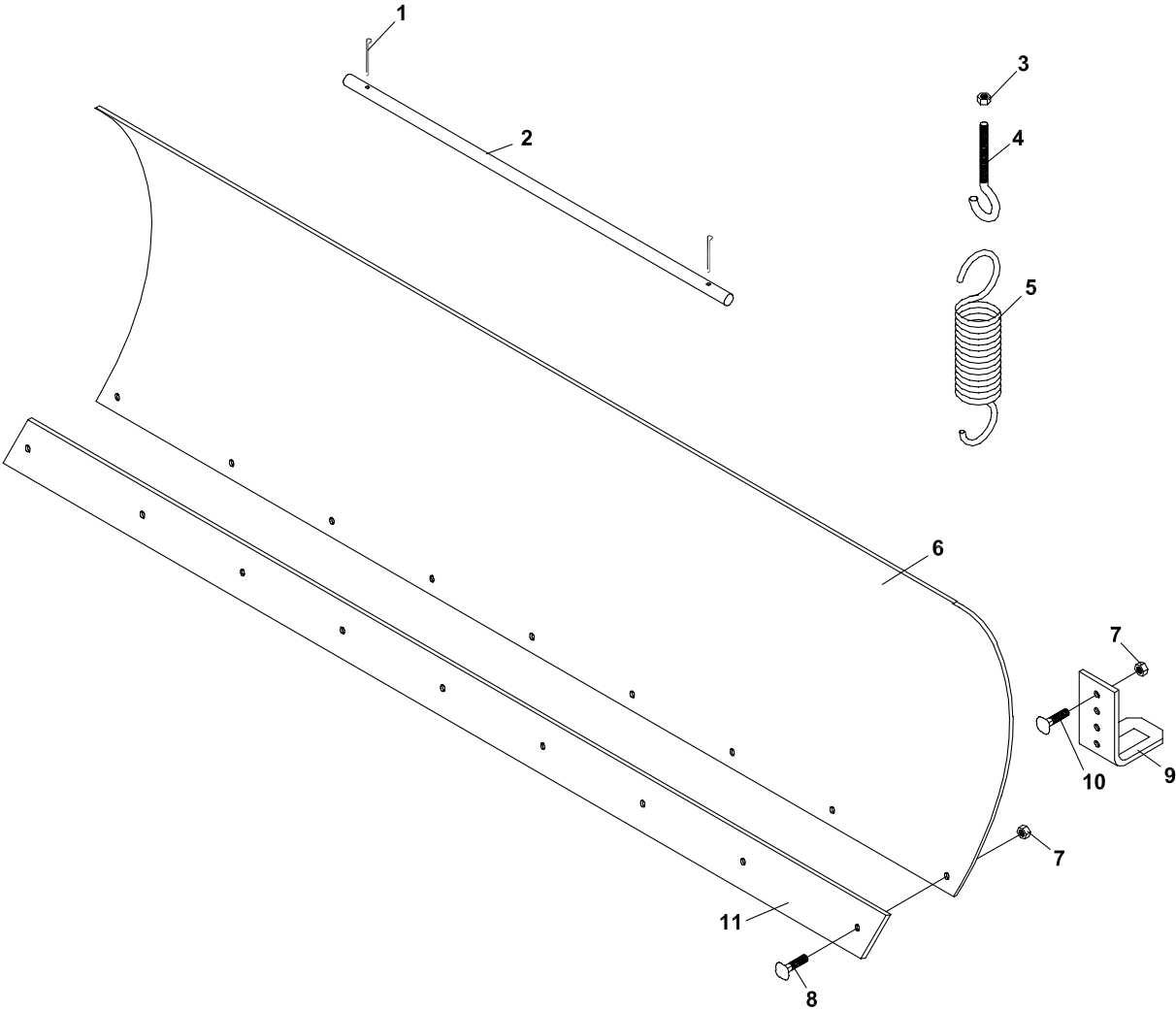
PARTS SECTION

PARTS SECTION

BLADE PARTS

**ANGLE
BLADE**

FIGURE 1



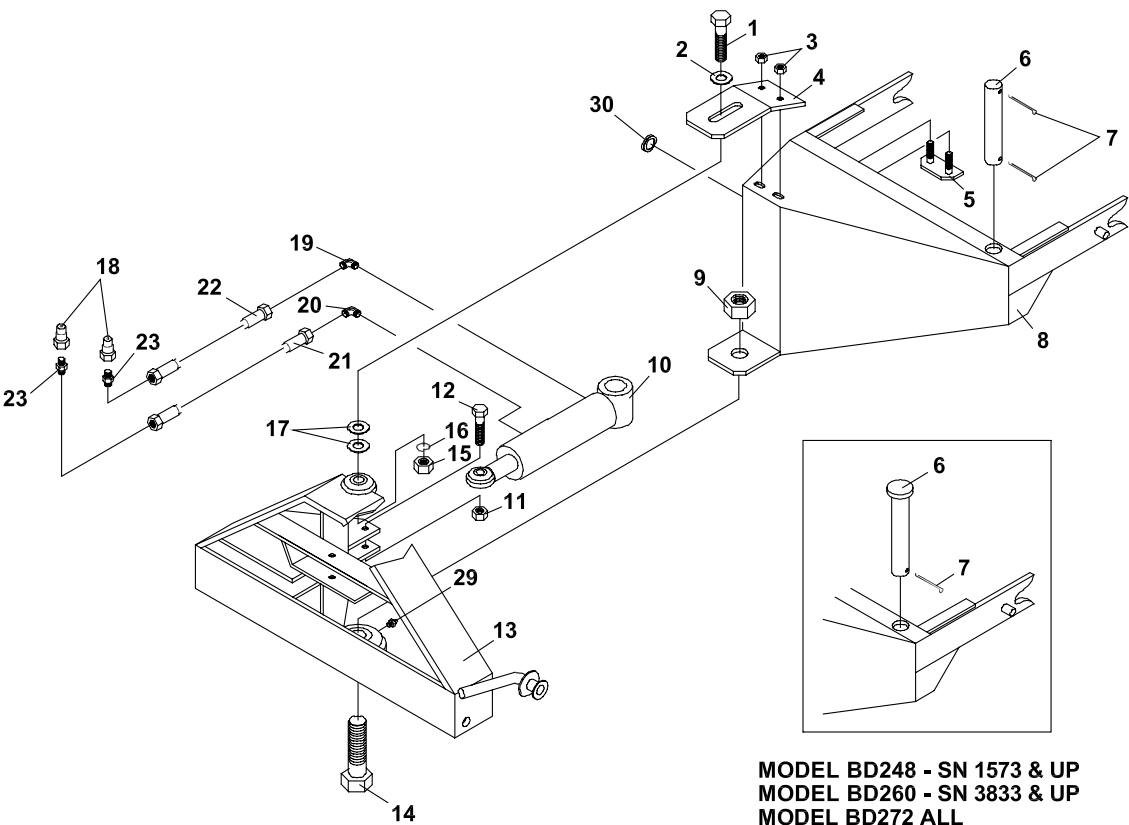
ANGLE BLADE

BLADE PARTS

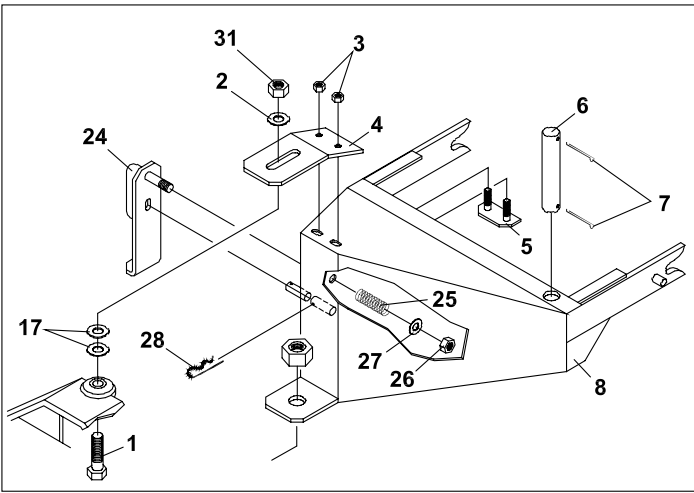
FIGURE 1

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1-1	02-CP0508	COTTER PIN, 5/32 X 1	2	OPTIONS FOR BD260			
1-2	64-008.7	ATTACHING ROD	1	*	78-038	HD CUTTING EDGE 60"	1
1-3	64229-03	LOCKNUT-NYLON 3/8-16	2	*	99-17	BOLT, 3/8-16 X 1	9
1-4	64158-04	EYE BOLT-3/8-16 X 6	2	*	78-040	SCARIFIER WEAR EDGE	1
1-5	41-012	SPRING	2	*	99-17	BOLT, 3/8-16 X 1	9
1-6	62-122.6	BLADE, 48"	1	*	64025-05	NUT-3/8-16 HEX	9
	62-123.6	BLADE, 60"	1	*	64006-03	LOCKWASHER, 3/8	9
	62-881.6	BLADE, 72"	1	OPTIONS FOR BD272			
1-7	64141-4	NUT-WLF 3/8-16 (48")	11	*	78-050	HD CUTTING EDGE 72"	1
	64141-4	NUT-WLF 3/8-16 (60")	13	*	99-17	BOLT, 3/8-16 X 1	10
	64141-4	NUT-WLF 3/8-16 (72")	14	*	78-051	SCARIFIER WEAR EDGE	1
1-8	99-17	BOLT-3/8-16 X 1 BH (48")	7	*	99-17	BOLT, 3/8-16 X 1	10
	99-17	BOLT-3/8-16 X 1 BH (60")	9	*	64025-05	NUT-3/8-16 HEX	10
	99-17	BOLT-3/8-16 X 1 BH (72")	10	*	64006-03	LOCKWASHER, 3/8	10
1-9	78-021.7	BLADE SKID SHOE	2	* NOT ILLUSTRATED			
1-10	64018-3	BOLT-3/8-16X1CARG (48")	4				
	64018-3	BOLT-3/8-16X1CARG (60")	4				
	64018-3	BOLT-3/8-16X1CARG (72")	4				
1-11	78-004	BLADE WEAR BAR 48"	1				
	78-005.7	BLADE WEAR BAR 60"	1				
	78-049	BLADE WEAR BAR 72"	1				
*	4124334	LABEL-ACCESSORY JAC	1				
OPTIONS FOR BD248							
*	78-037	HD CUTTING EDGE 48"	1				
*	99-17	BOLT, 3/8-16 X 1	7				
*	78-039	SCARIFIER WEAR EDGE	1				
*	99-17	BOLT, 3/8-16 X 1	7				
*	64025-05	NUT-3/8-16 HEX	7				
*	64006-03	LOCKWASHER, 3/8	7				

FIGURE 2



MODEL BD248 - SN 1573 & UP
MODEL BD260 - SN 3833 & UP
MODEL BD272 ALL



MODEL BD248 - SN 1535 & UP
MODEL BD260 - SN 3609 & UP
MODEL BD272 ALL

ANGLE BLADE

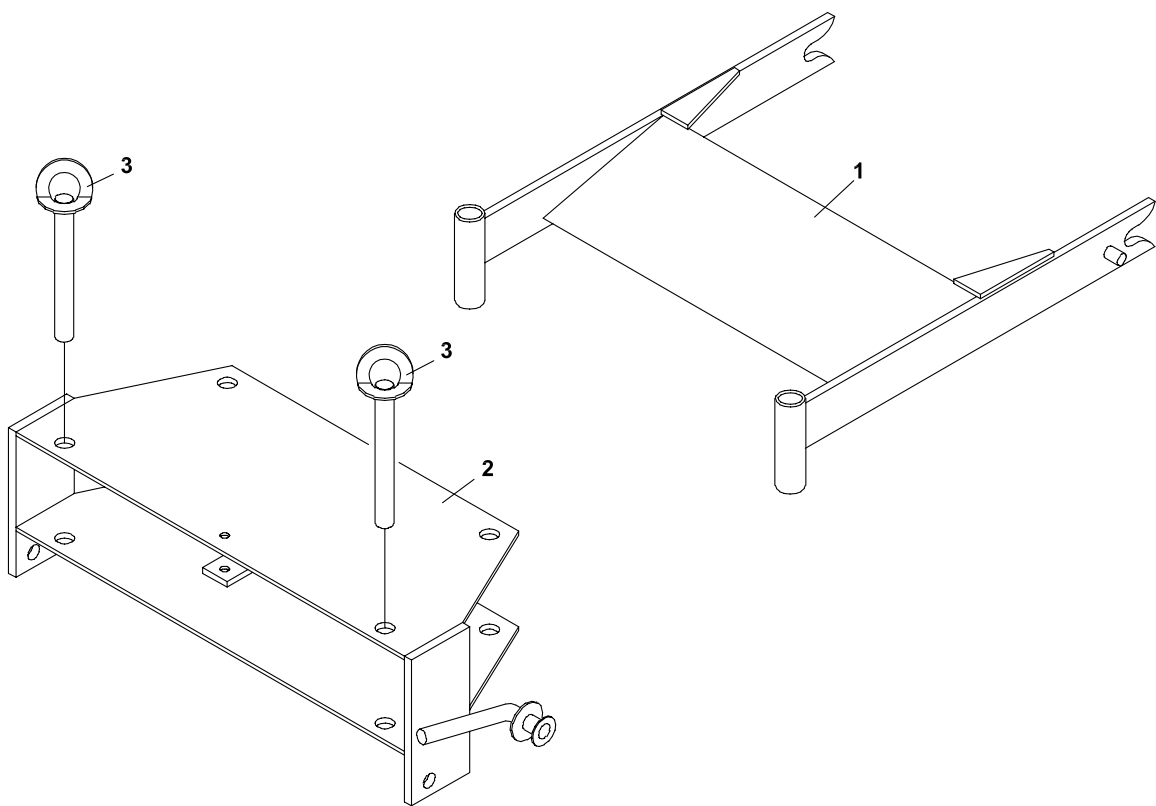
POWER ANGLE PARTS

FIGURE 2

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
2-1	90-1020	BOLT,5/8-11 X 2-1/2	1	2-13	62-201.7	SUB-FRAME	1
	(BD248, SN 1001 - 1616)			2-14	91-1628	BOLT,1-14 X 3-1/2	1
	90-1020	BOLT,5/8-11 X 2-1/2	1	2-15	64025-21	NUT-HEX 5/8-11	1
	(BD260, SN 1001 - 4448)				(BD248, SN 1001 - 1616)		
	90-1018	BOLT,5/8-11 X 2-1/4	1		64025-21	NUT-HEX 5/8-11	1
	(BD248, SN 1617 -)				(BD260, SN 1001 - 4448)		
	90-1018	BOLT,5/8-11 X 2-1/4	1	2-16	64006-04	LOCKWSHR-HELICAL 5/8	1
	(BD260, SN 4449 -)				(BD248, SN 1001 - 1616)		
	90-1018	BOLT,5/8-11 X 2-1/4	1		64006-04	LOCKWSHR-HELICAL 5/8	1
	(BD272)				(BD260, SN 1001 - 4448)		
2-2	94-10	FLAT WASHER, 5/8	1	2-17	64163-16	WASHER-41/64 X 1, 3/8 X 12	2
2-3	64141-4	NUT-WLF 3/8-16	2	2-18	23-004	MALE QUICK COUPLER	2
2-4	64-061.7	PLATE	1	2-19	25-2103-6-6	FITTING-90 DEG	1
2-5	64-240.7	TOP ADJUSTING BOLTS	1	2-20	25-3103-6-6	FITTING-45 DEG	1
2-6	64-062	PIN-CYLINDER	1	2-21	20-020	HOSE-1/4 X 44	1
	(BD248, SN 1001 - 1572)			2-22	20-218	HOSE, 1/4 X 48 100R1 #6	1
	03-1640	CLEVIS PIN, 1" X 5"	1	2-23	25-0103-4-6	FITTING	2
	(BD248, SN 1573 -)			2-24	64-988.7	KICKSTAND	1
	64-062	PIN-CYLINDER	1		(BD248, SN 1535 -)		
	(BD260, SN 1001 - 3832)				64-988.7	KICKSTAND	1
	03-1640	CLEVIS PIN, 1" X 5"	1		(BD260, SN 3609 -)		
	(BD260, SN 3833 -)				64-988.7	KICKSTAND	1
	03-1640	CLEVIS PIN, 1" X 5"	1		(BD272)		
	(BD272)			2-25	41-081	SPRING, COMP	1
2-7	02-CP0612	COTTER PIN, 3/16 X 1-1/2	2		(BD248, SN 1535 -)		
	(BD248, SN 1001 - 1572)				41-081	SPRING, COMP	1
	02-CP0612	COTTER PIN, 3/16 X 1-1/2	1		(BD260, SN 3609 -)		
	(BD248, SN 1573 -)				41-081	SPRING, COMP	1
	02-CP0612	COTTER PIN, 3/16 X 1-1/2	2		(BD272)		
	(BD260, SN 1001 - 3832)			2-26	64229-05	LOCKNUT, 1/2-13 NYLON	1
	02-CP0612	COTTER PIN, 3/16 X 1-1/2	1		(BD248, SN 1535 -)		
	(BD260, SN 3833 -)				64229-05	LOCKNUT, 1/2-13 NYLON	1
	02-CP0612	COTTER PIN, 3/16 X 1-1/2	1		(BD260, SN 3609 -)		
	(BD272)				64229-05	LOCKNUT, 1/2-13 NYLON	1
2-8	62-200.7	ATTACHING FRAME	1		(BD272)		
2-9	64151-9	HEX LOCKNUT	1	2-27	64163-67	WASHER-.516X1X12GA	1
2-10	23-005	CYLINDER	1		(BD248, SN 1535 -)		
	(BD248, SN 1001 - 1168)				64163-67	WASHER-.516X1X12GA	1
	24-043	CYLINDER	1		(BD260, SN 3609 -)		
	(BD248, SN 1169 -)				64163-67	WASHER-.516X1X12GA	1
	23-005	CYLINDER	1		(BD272)		
	(BD260, SN 1001 - 1699)			2-28	02-PP0313	PIN, 3/16 x 1.5/8	1
	24-043	CYLINDER	1		(BD248, SN 1535 -)		
	(BD260, SN 1700 -)				02-PP0313	PIN, 3/16 x 1.5/8	1
	24-043	CYLINDER	1		(BD260, SN 3609 -)		
	(BD272)				02-PP0313	PIN, 3/16 x 1.5/8	1
	21-0A006763	SEAL KIT	1		(BD272)		
2-11	64229-03	LOCKNUT-NYLON 3/8-16	1	2-29	29-010	S/B GREASE FITTING	1
	(BD248, SN 1001 - 1168)			2-30	05-039	GROMMET, 1-5/16 ID X 2 OD	1
	64141-13	NUT WLF 1/2-13	1	2-31	F6010	NUT, FLANGED	1
	(BD248, SN 1169 -)				(BD248, SN 1617 -)		
	64229-03	LOCKNUT-NYLON 3/8-16	1		F6010	NUT, FLANGED	1
	(BD260, SN 1001 - 1699)				(BD260, SN 4449 -)		
	64141-13	NUT WLF 1/2-13	1		F6010	NUT, FLANGED	1
	(BD260, SN 1700 -)				(BD272)		
2-12	64123-67	BLT-HEX 3/8-16X2	1	*	4116761	LABEL-MADE IN USA	1
	(BD248, SN 1001 - 1168)						
	64123-24	BLT-HEX 1/2-13X2	1				
	(BD248, SN 1169 -)						
	64123-67	BLT-HEX 3/8-16X2	1				
	(BD260, SN 1001 - 1699)						
	64123-24	BLT-HEX 1/2-13X2	1				
	(BD260, SN 1700 -)						
	64123-24	BLT-HEX 1/2-13X2	1				
	(BD272)						

* NOT ILLUSTRATED

FIGURE 3



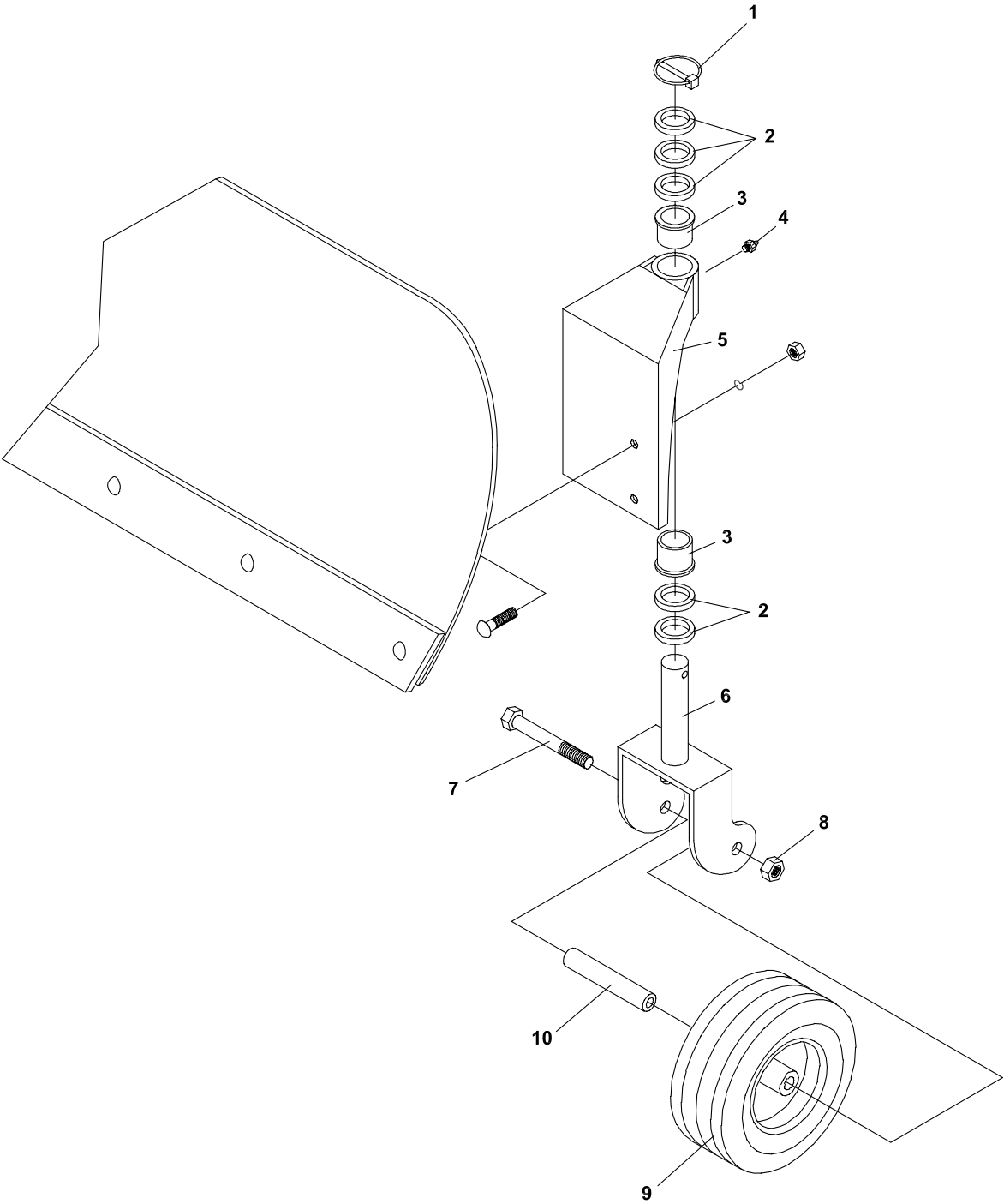
ANGLE BLADE

MANUAL ANGLE PARTS

FIGURE 3

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
3-1	62-124	FRAME-ATTACHING	1				
3-2	62-125	SUB-FRAME	1				
3-3	64-009	SELECTOR PIN	2				

FIGURE 4



ANGLE BLADE

OPTIONAL GAUGE WHEEL

FIGURE 4

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
4-1	03-015	CLIP	2				
4-2	64-804	SPACER	10				
4-3	85-B34	BUSHING	4				
4-4	29-010	S/B GREASE FITTING	2				
4-5	6101066	MOUNT, CASTER RH	1				
	6101067	MOUNT, CASTER LH	1				
4-6	6101065	YOKE, CASTER	2				
4-7	90-0836	BOLT, 1/2 UNC X 4.1/2	2				
4-8	64141-13	NUT WLF 1/2-13	2				
4-9	53-181	WHEEL, 6.25 X 3.00	2				
4-10	6101062	AXLE, CASTER WHEEL	2				

World Class Quality, Performance And Support



Equipment from Jacobsen, a Textron company, is built to exacting standards ensured by ISO 9001 and ISO 14001 registration at all our manufacturing locations.

A worldwide dealer network and factory-trained technicians backed by Textron Parts Xpress provide reliable, high-quality product support.



BOB-CAT BROUWER BUNTON CUSHMAN RYAN STEINER