

Level Best

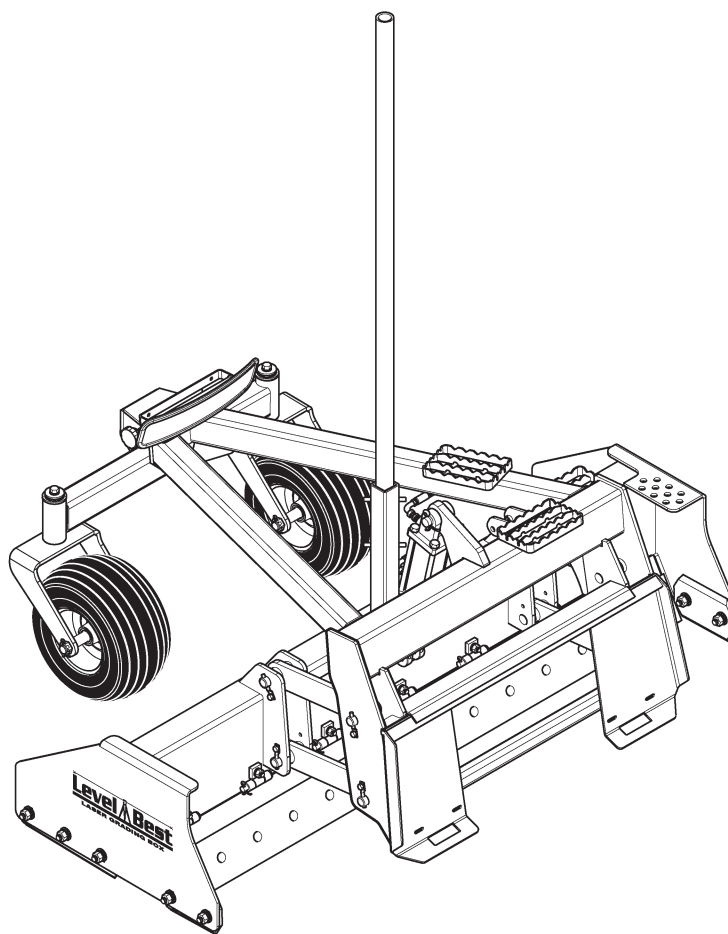
LASER GRADING BOX

PARTS MANUAL

FOR

PARA-LEVEL - SINGLE

With Integrated Control Systems



ATI Corporation

New Holland, PA 17557

Phone (717) 354-8721 • FAX (717) 354-2162

1-800-342-0905

www.level-best.com

DECEMBER 2009

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ATI Corporation
250 Earland Drive
New Holland, PA 17557 U.S.A.

DISCLAIMER

THE INFORMATION IN THIS MANUAL IS PROVIDED TO PROMOTE THE SAFE USE OF, AND ASSIST THE OPERATOR IN ACHIEVING THE BEST PERFORMANCE FROM, PARA-LEVEL GRADING BOX DESCRIBED HEREIN, FOR THEIR INTENDED APPLICATIONS.



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Para-Level Grading Box PARTS LIST

STANDARD MODELS

Part Number	Model Number	Description
315-097-000	PL72	Box, Grader, Para-Level, Single, 6', Cylinder Only
315-087-000	PL84	Box, Grader, Para-Level, Single, 7', Cylinder Only
315-098-000	PL96	Box, Grader, Para-Level, Single, 8', Cylinder Only

Para-Level Grading Box PARTS LIST

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WARRANTY

This Para-Level Grading Box is designed and manufactured to high quality standards. ATI Corporation, therefore, guarantees this Para-Level Grading Box to be free from defect in workmanship and materials for three years from purchase date. **If the machine is used for rental purposes, the warranty is limited to ninety (90) days.**

Vendored Components and Control Valve Parts are warranted separately by their respective manufacturers.

Does not cover normal wear or failure due to hydraulic oil contamination.

Misuse, abuse, misapplication, and unauthorized alterations will void this warranty.

All warranty work must be performed by an approved Level Best dealer, and authorized by ATI Corporation.

SERIAL NUMBER INFORMATION

It is very important that the correct serial number is provided when ordering parts. The serial number plate is located on the main frame. Please mark the model and serial number of your Para-Level Grading Box in the space provided below in case the plate on your Para-Level Grading Box gets lost or damaged.

Model..... Serial Number

Dealer Name Dealer Phone Number

WHERE TO GET PARTS AND SERVICE

When replacement parts and service are required for your Para-Level Grading Box, ATI Corporation recommends going to your local Para-Level Grading Box dealer. By going to your local dealer you are dealing with people that understand and know your machine. Our dealers have experience servicing these machines and stock the most popular parts required to keep your Para-Level Grading Box in top working condition.

NOTE:

ATI Corporation reserves the right to discontinue models at any time, change specifications, and improve design without notice and without incurring obligation on goods previously purchased and to discontinue supplying any part listed, when the demand does not warrant production.

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HOW TO ORDER PARTS

Parts lists contained in this book have been prepared to help you when ordering spare and/or replacement parts. Your order will be filled promptly and accurately when the following information is provided:

1. Model and serial number of the unit. (This specifically identifies the equipment you have and permits us to verify the part numbers in your order.)
2. The parts list page number and catalog number. Include catalog revision number, if applicable.
3. The **Item** number for each part. **Item** numbers on the parts list page correspond with the numbers shown on the illustration.
4. **Part Number** as it appears in the parts list. In most cases this will be a nine-digit number; for example: 315-005-000.
5. The **Description** for the part as it appears on the parts list page.

When a complete assembly is needed, use the assembly number given in the parts list. If no assembly number is given, order by main assembly title and list only the item numbers you want. For example: "Wheel Frame Assembly per 315-509-000, Items 2 through 8, inclusive".

The part ordered may have a new part number, or the part may have been replaced by a newer design with a different part number. In these cases your acknowledgement, shipping papers and invoices will be written listing the current part number first; the old part number you referred to will follow the part description.

Our purpose in doing this is to tell you that the parts are fully interchangeable. This will avoid any unnecessary correspondence or delay in processing your order. We suggest that you add any new number to your parts lists for future use.



NOTES

[illegible]

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LIST OF PARTS ILLUSTRATIONS



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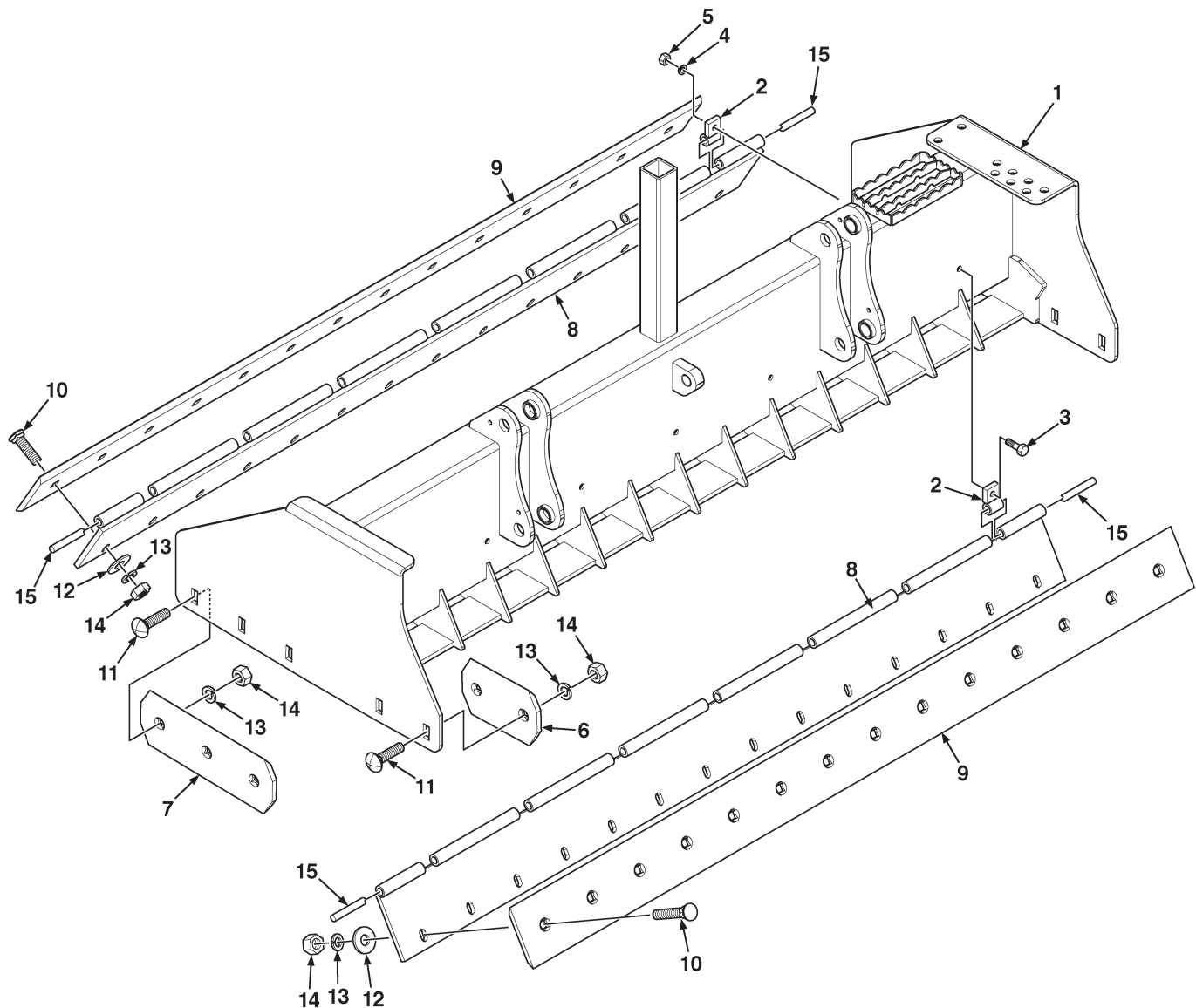
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Para-Level Grading Box PARTS LIST

Figure 1. Main Frame and Cutting Edges



Para-Level Grading Box PARTS LIST



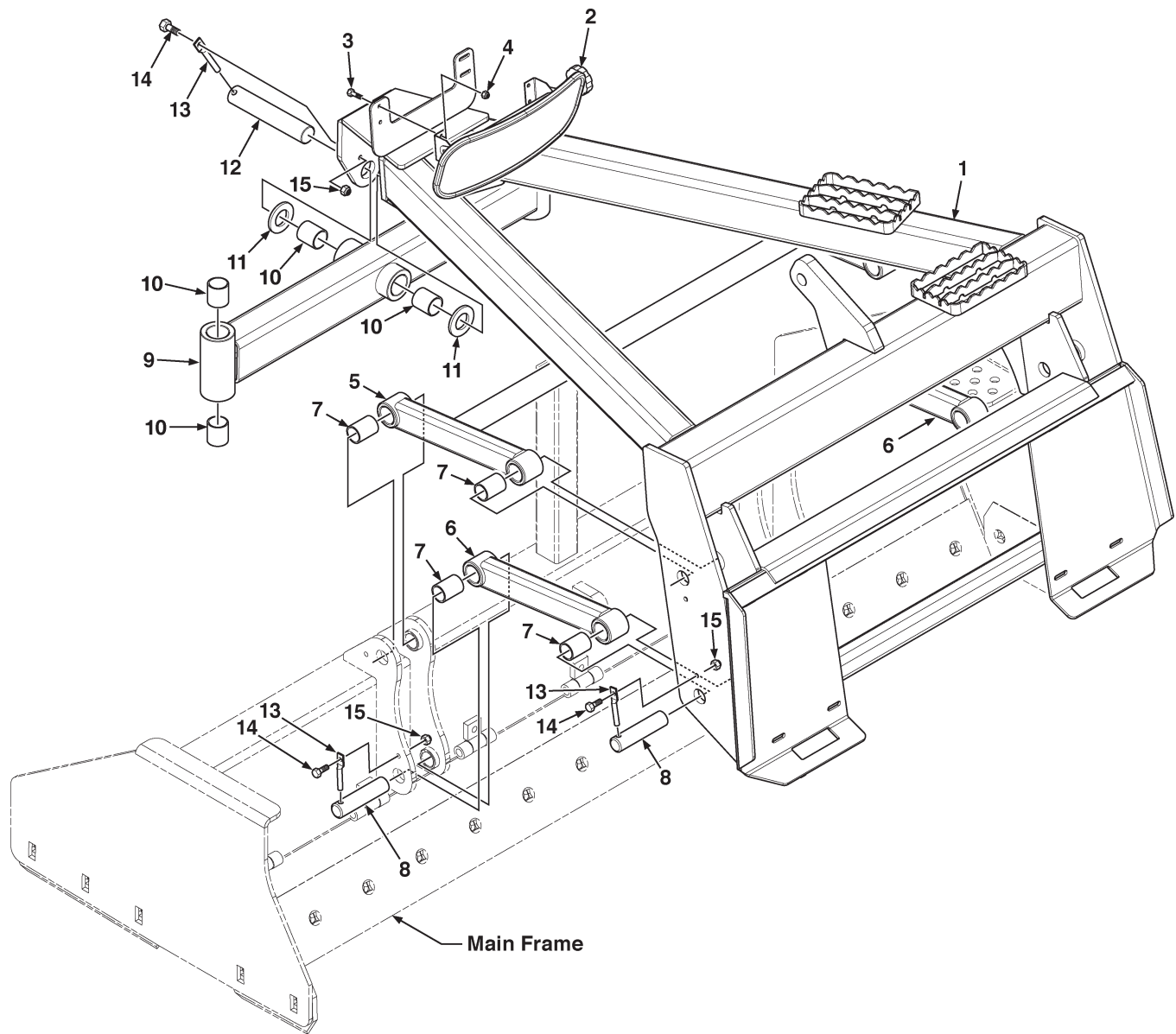
Figure 1. Main Frame and Cutting Edges

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Item	Part No.	Qty	Description
1	315-097-100	1	Frame, Main 6'
	315-564-000	1	Frame, Main 7'
	315-098-100	1	Frame, Main 8'
2	315-561-000	14	Hinge, Back Plate, 6' & 7'
	315-561-000	18	Hinge, Back Plate, 8'
3	LP	AR	Bolt, Hex Head, 1/2"-13UNC x 2" Long
4	LP	AR	Washer, Lock, 1/2"
5	LP	AR	Nut, Hex, 1/2"-13UNC
6	000-190-150	2	Edge, Cutting, End, DBF, 9-1/2" Long
7	000-190-149	2	Edge, Cutting, End, DBF, 16-3/4" Long
8	315-563-100	2	Mount Assembly, Blade 6'
	315-564-100	2	Mount Assembly, Blade 7'
	315-565-100	2	Mount Assembly, Blade 8'
9	000-190-075	2	Edge, Cutting, DBF, 72" Long
	000-190-077	2	Edge, Cutting, DBF, 84" Long
	000-190-079	2	Edge, Cutting, DBF, 96" Long
10	000-150-263	AR	Bolt, Plow, 5/8"-11UNC x 2" Long
11	000-150-253	AR	Bolt, Carriage, 5/8"-11UNC x 1-3/4" Long
12	LP	AR	Washer, Flat, 5/8"
13	000-155-077	AR	Washer, Lock, 5/8"
14	000-158-138	AR	Nut, Hex, 5/8"-11UNC
15	000-161-127	2	Pin, Hinge, 6'
	000-161-128	2	Pin, Hinge, 7'
	000-161-129	2	Pin, Hinge, 8'
AR - As Required NSS - Not Serviced Separately ASN - After Serial No. BSN - Before Serial No. LP - Local Purchase			

Para-Level Grading Box PARTS LIST

Figure 2. Attachment Frame and Related Parts



Para-Level Grading Box PARTS LIST



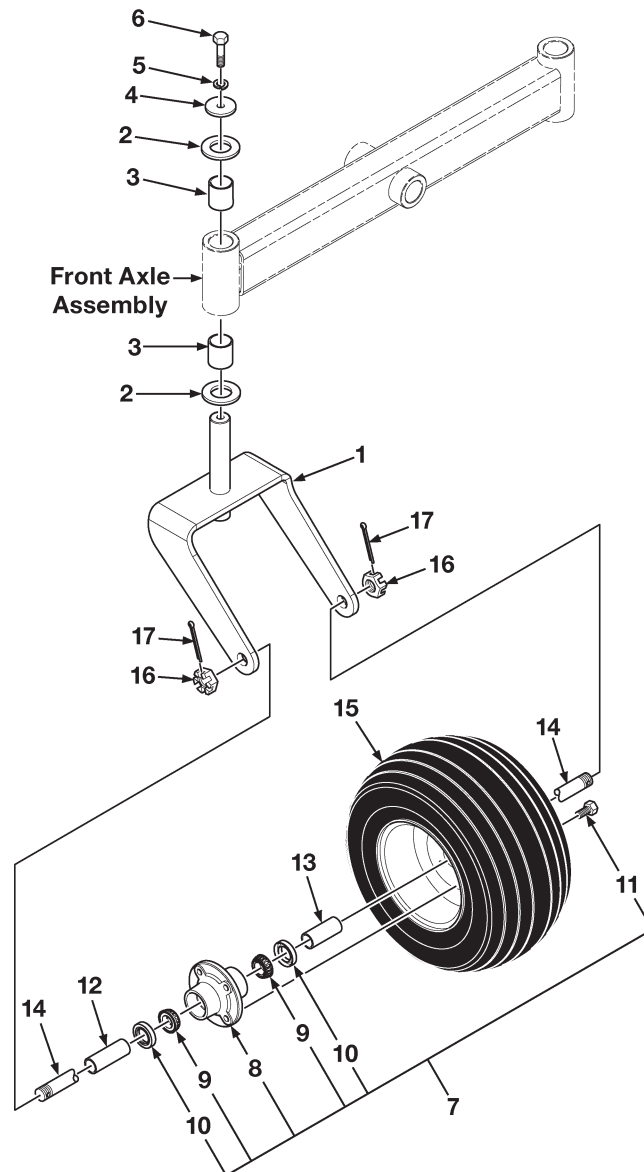
Figure 2. Attachment Frame and Related Parts

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Item	Part No.	Qty	Description
1	315-628-055	1	Frame Weldment, Attachment
2	001-001-097	1	Mirror
3	LP	4	Bolt, Hex Head, 1/4"-20UNC x 3/4" Long
4	LP	4	Nut, Hex, Nylon Lock, 1/4"-20UNC
5	315-621-000	1	Link, Lift, Torsion, Box, Includes Item 7
6	315-621-100	2	Link, Lift, Lower, Box, Includes Item 7
7	000-176-183	8	Bushing, Link, 1-1/2" OD x 1-1/4" ID x 2" Long
8	000-161-098	8	Pin, Link
9	315-568-000	1	Axle Assembly, Front, Includes Item 10
10	000-176-171	6	Bushing, Wheel Frame, 1-3/4" OD x 1-1/2" ID x 1-1/2" Long
11	000-155-002	2	Washer, Flat, 2-1/4" OD x 1-1/2" ID x 10 Gauge Thick
12	000-161-099	1	Shaft, Wheel Pivot
13	000-161-024	9	Pin, Retainer, 3/8" Dia. x 3-1/4" Long
14	LP	9	Bolt, Hex Head, 5/16"-18UNC x 1-1/4" Long
15	LP	9	Nut, Hex, Nylon Lock, 5/16"-18UNC
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Figure 3. Caster Fork and Wheel



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Figure 3. Caster Fork and Wheel

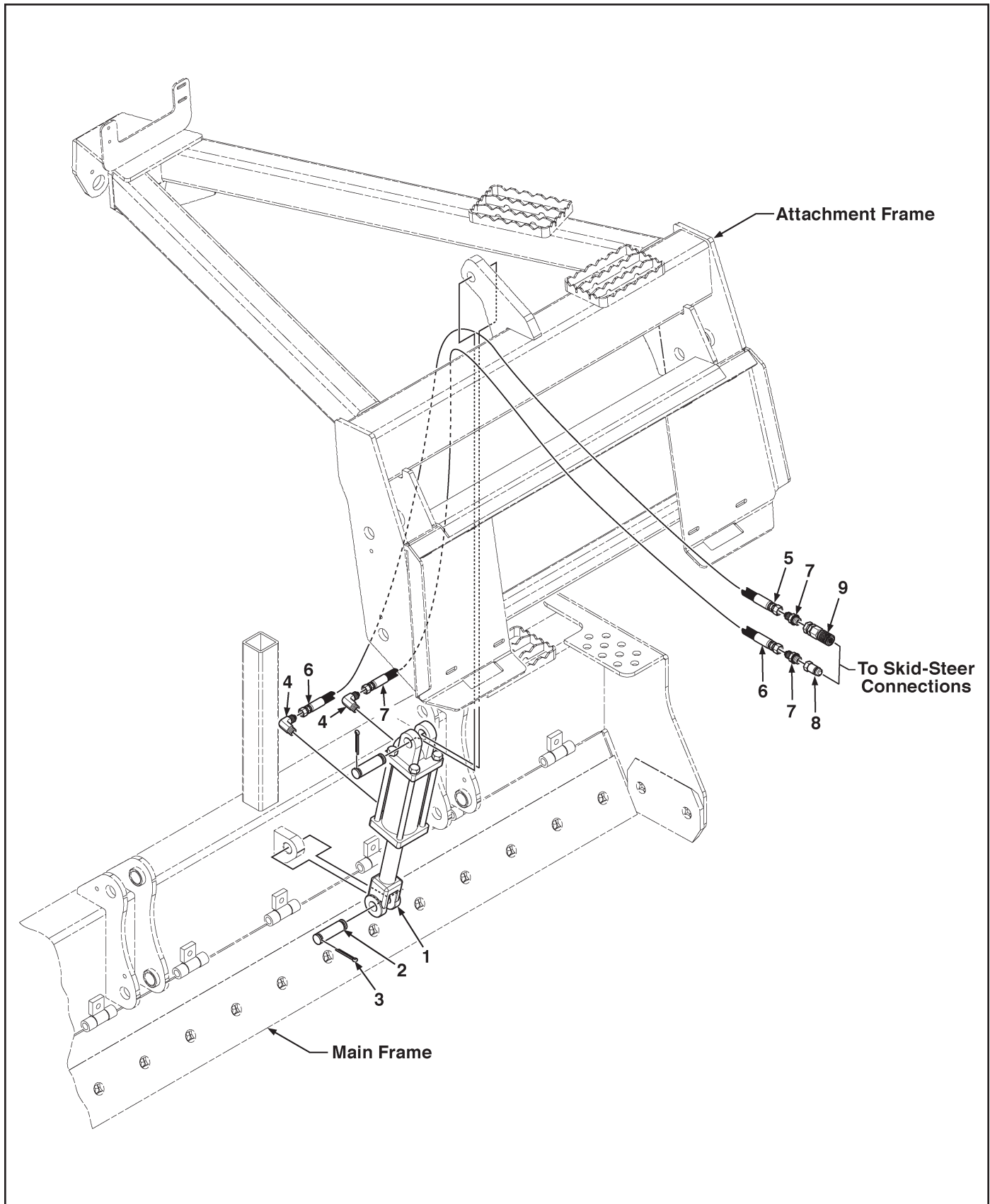
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Item	Part No.	Qty	Description
1	315-548-000	2	Fork, Caster
2	000-155-002	4	Washer, Flat, 2-1/4" OD x 1-1/2" ID x 10 Gauge Thick
3	000-176-171	4	Bushing, Wheel Frame, 1-3/4" OD x 1-1/2" ID x 1-1/2" Long
4	000-155-004	2	Washer, Flat, 2-1/4" OD x 17/32" ID x 1/4" Thick
5	LP	2	Washer, Lock, 1/2"
6	LP	2	Bolt, Hex Head, 1/2"-13UNC x 1-1/4" Long
7	001-001-069	2	Bearing Assembly, Includes Items 8 thru 11
8	001-001-074	1	Hub, Wheel, With Outer Race
9	000-176-184	2	Bearing, Roller, Tapered, 1" Dia. Bore
10	000-166-302	2	Seal, Grease, 2" OD x 1-1/4" ID
11	LP	4	Bolt, Hex Head, 1/2"-20UNF x 1" Long
12	315-551-000	2	Spacer, Wheel Bearing, Long
13	315-552-000	2	Spacer, Wheel Bearing, Short
14	315-553-000	2	Shaft, Axle, Wheel, Roller Bearing
15	001-001-057	2	Wheel/Tire, Foam Filled, 22 PSI
16	000-158-193	4	Nut, Castle, 1"-14UNF
17	LP	4	Pin, Cotter, 1/8" Dia. x 1-1/4" Long

AR - As Required NSS - Not Serviced Separately ASN - After Serial No. BSN - Before Serial No. LP - Local Purchase

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Figure 4. Hydraulics Cylinder Only



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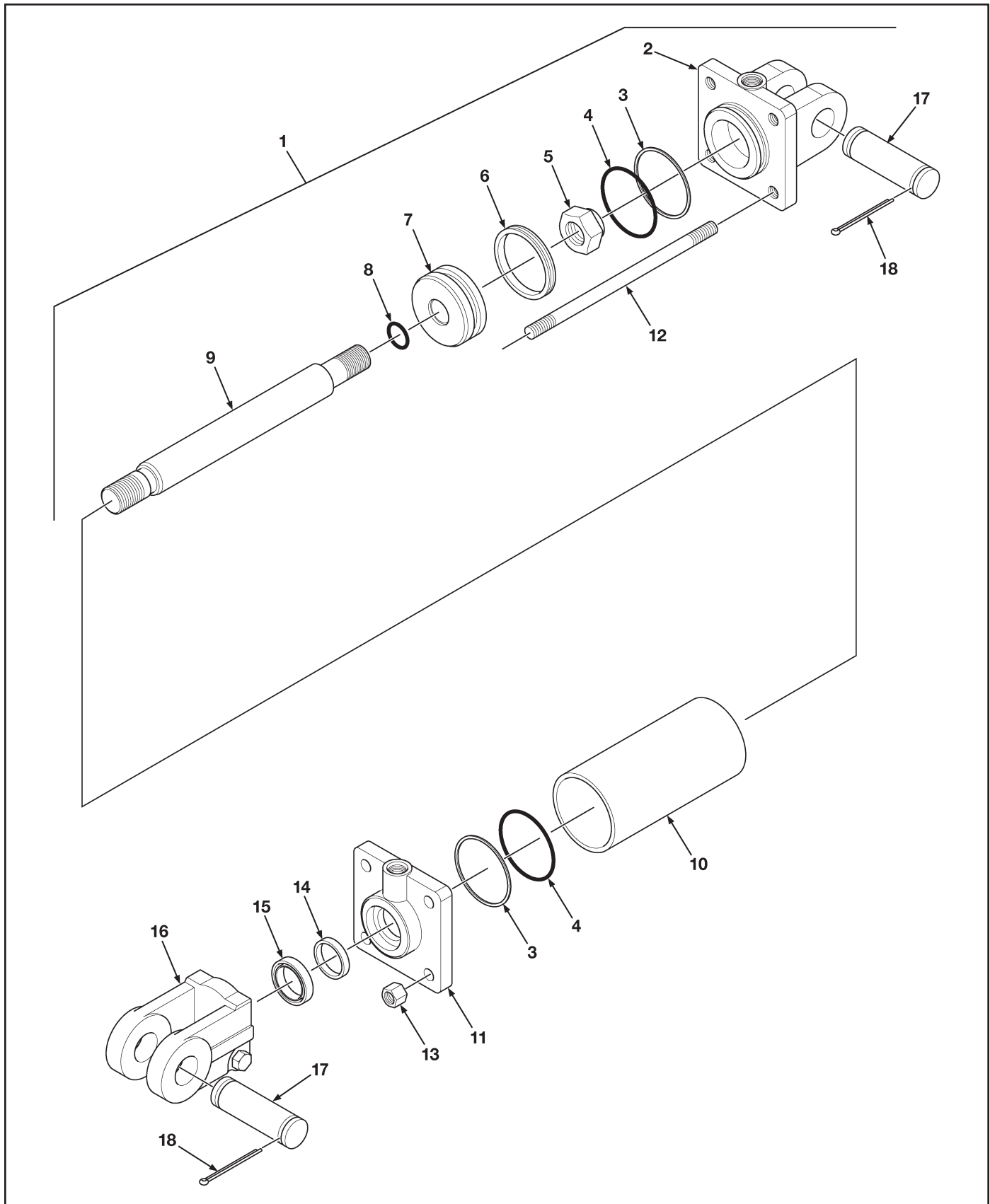
Figure 4. Hydraulics Cylinder Only

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Item	Part No.	Qty	Description
1	000-166-537	1	Cylinder, Hydraulic, 3" Bore x 6" Stroke, See Breakdown Figure 9, Includes Items 2 & 3
2	000-161-068	2	Pin, Cylinder, 1" Dia. x 3-3/8" Long
3	LP	4	Pin, Cotter, 3/16" Dia. x 1-3/4" Long
4	000-166-417	2	Elbow, 90°, 6MJ x 8MB
5	000-166-450	1	Hose, 1/2" Dia. x 70" Long x 6FJX x 8FJX, 4,000 PSI
6	000-166-450	1	Hose, 1/2" Dia. x 70" Long x 6FJX x 8FJX, 4,000 PSI
7	000-166-202	2	Adapter, Straight, 8MJ x 12MB
8	000-166-068	1	Coupler, Quick Disconnect, Flat Face, Male
9	000-166-069	1	Coupler, Quick Disconnect, Flat Face, Female
			BH-Bulkhead MP-Male Pipe FP-Female Pipe FPX-Female Pipe Swivel MB-Male O-Ring Boss FB-Female O-Ring Boss MJ-Male JIC FJ-Female JIC FJX-Female JIC Swivel
AR - As Required NSS - Not Serviced Separately ASN - After Serial No. BSN - Before Serial No. LP - Local Purchase			

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Figure 5. Cylinder Assembly, 3" Bore x 6" Stroke



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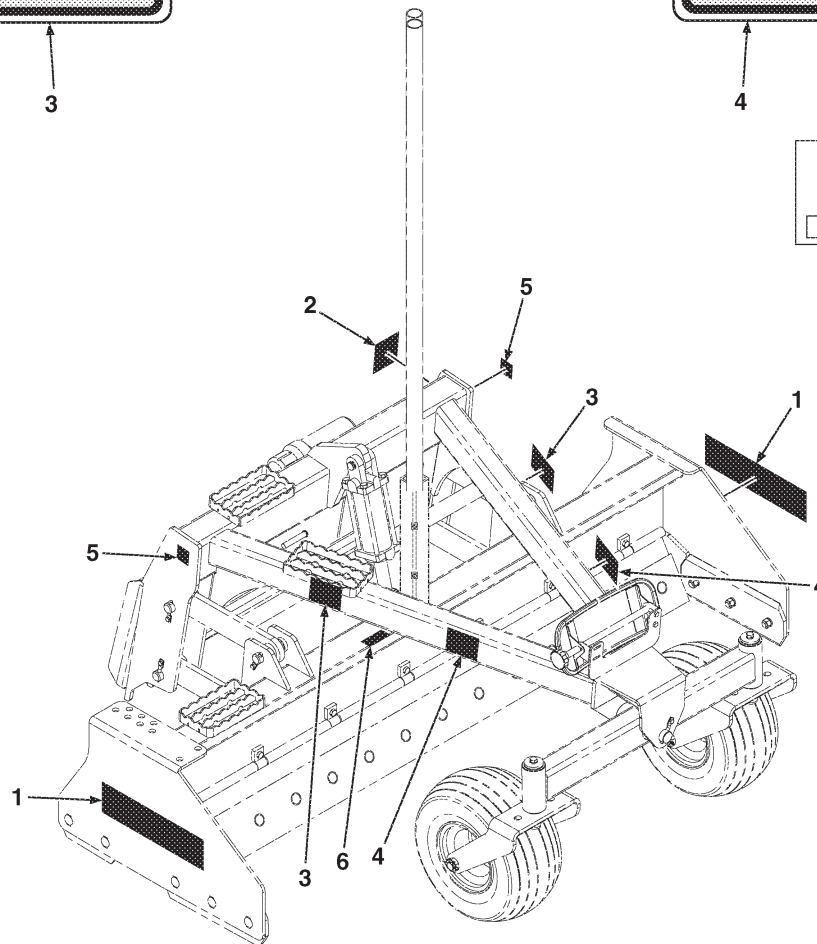
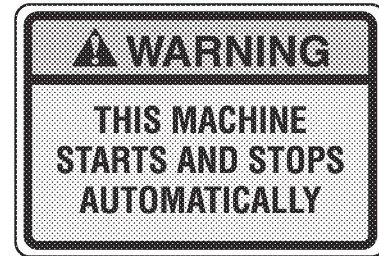
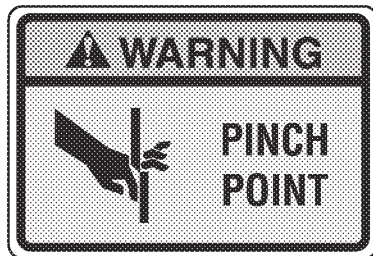
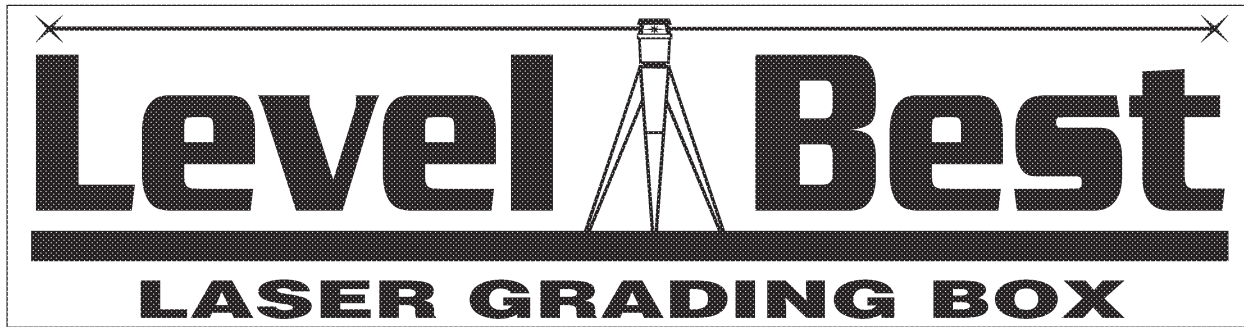
Figure 5. Cylinder Assembly, 3" Bore x 6" Stroke

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Item	Part No.	Qty	Description
1	000-166-537	1	Cylinder Assembly, 3" Bore x 6" Stroke, Includes Items 2 thru 18
2	000-166-322	1	Butt Assembly
3	NSS	2	Ring, Back Up
4	NSS	2	O-Ring
5	000-158-195	1	Nut, Lock
6	NSS	1	Seal, Crown
7	000-166-326	1	Piston
8	NSS	1	O-Ring
9	000-166-328	1	Rod Assembly
10	000-166-329	1	Tube
11	000-166-330	1	Gland
12	000-166-331	4	Tie Rod Assembly, Includes Item 13
13	NSS	4	Nut, Hex, Tie Rod
14	NSS	1	Seal, U-Cup
15	NSS	1	Seal, Wiper
16	000-166-334	1	Clevis Assembly
17	000-161-068	2	Pin, Cylinder, 1" Dia. x 3-3/8" Long
18	LP	4	Pin, Cotter, 3/16" Dia. x 1-3/4" Long
	000-166-207	AR	Kit, Cylinder Repair Includes: Items 3, 4, 6, 8, 14 & 15
AR - As Required NSS - Not Serviced Separately ASN - After Serial No. BSN - Before Serial No. LP - Local Purchase			

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Figure 6. Decals



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Figure 6. Decals

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Item	Part No.	Qty	Description
1	000-186-093	2	Decal, Level Best Logo
2	000-186-041	1	Decal, Warning, High-Pressure
3	000-186-055	2	Decal, Danger, Pinch Point
4	000-186-094	2	Decal, Danger, This Machine Starts & Stops Automatically
5	000-186-048	2	Decal, Made in U.S.A.
6	000-186-035	1	Plate, Model/Serial, Adhesive Back
AR - As Required NSS - Not Serviced Separately ASN - After Serial No. BSN - Before Serial No. LP - Local Purchase			