

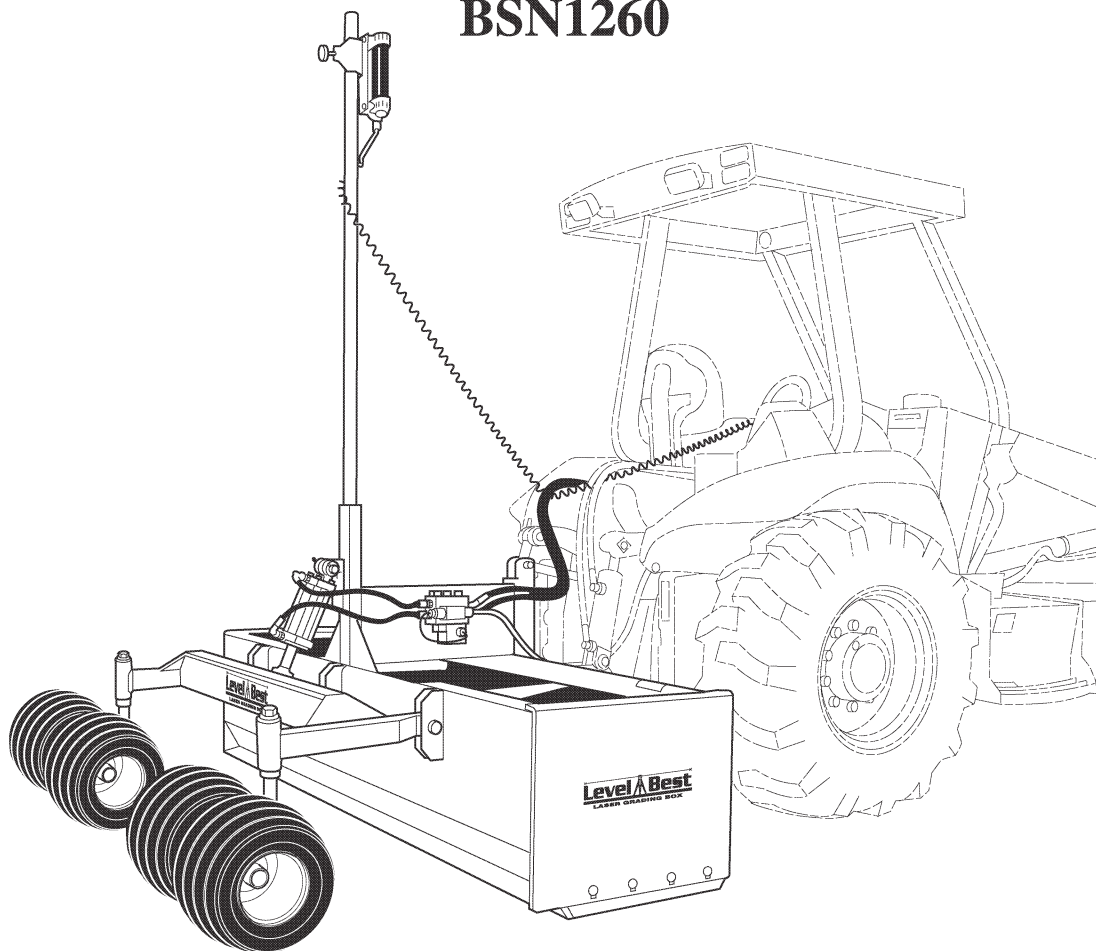
Level Best

LASER GRADING BOX

PARTS MANUAL

FOR

TRACTOR BOX - SINGLE SUPER CAPACITY APACHE BSN1260



ATI Corporation
New Holland, PA 17557
Phone (717) 354-8721 • FAX (717) 354-2162
1-800-342-0905
www.level-best.com

JANUARY 2006
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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, LASER GRADING BOX DESCRIBED HEREIN, FOR THEIR INTENDED APPLICATIONS.



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Laser Grading Box PARTS LIST

Standard Models

Part Number	Model Number	Description
315-066-000	LBSE7	Box, Grader, Tractor, Single, 6', Cylinder Only
315-064-000	LBSE8	Box, Grader, Tractor, Single, 7', Cylinder Only
315-065-000	LBSE9	Box, Grader, Tractor, Single, 8', Cylinder Only
000-166-390		Kit, Hydraulic, Single, Apache, Includes Valve Assembly, Hoses, Fittings & Solenoid Cable
000-200-095		Kit, Laser Controls, Single Tractor, Includes Single Panel, 360 Degree Receiver & Cables (Power & Receiver)

Laser Grading Box PARTS LIST

Table of Contents



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SUBJECT	PAGE NO.
Standard Models	ii
Table of Contents	iii
WARRANTY.....	iv
SERIAL NUMBER INFORMATION.....	iv
WHERE TO GET PARTS AND SERVICE.....	iv
HOW TO ORDER PARTS	v
Notes	vi
List Of Parts Illustrations	1



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WARRANTY

This Laser Grading Box is designed and manufactured to high quality standards. ATI Corporation, therefore, guarantees this Laser 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 Laser Grading Box in the space provided below in case the plate on your Laser 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, ATI Corporation recommends returning to the dealer from which the product or optional kit was purchased. By going to the dealer, you are dealing with people that understand and know ATI products. Our dealers have the experience servicing these machines and stock the most common parts required to keep your equipment 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

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Laser Grading Box PARTS LIST

List Of Parts Illustrations

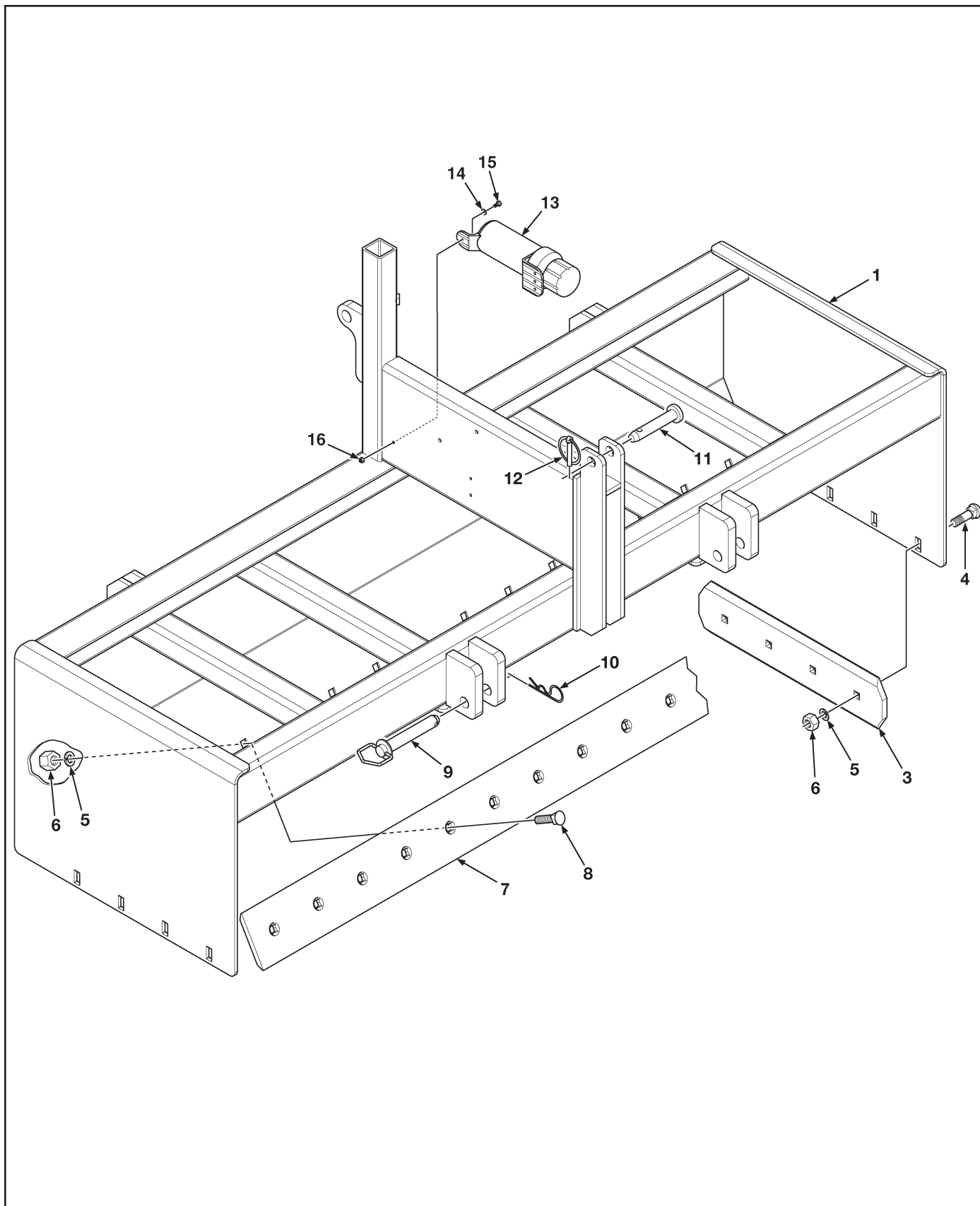


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Figure 1. Main Frame and Cutting Edges	2
Figure 2. Wheel Frame and Related Parts.....	4
Figure 3. Caster Fork and Wheel	6
Figure 4. Hydraulics Cylinder Only.....	8
Figure 5. Hydraulics With Optional Valve Assembly	10
Figure 6. Hydraulic Valve Assembly	12
Figure 7. Laser Controls and Related Parts	14
Figure 8. Control Panel, Receiver, Cables and Related Parts	16
Figure 9. Cylinder Assembly, 3" Bore x 6" Stroke	18
Figure 10. Decals	20

Laser Grading Box PARTS LIST

Figure 1. Main Frame and Cutting Edges



Laser Grading Box PARTS LIST



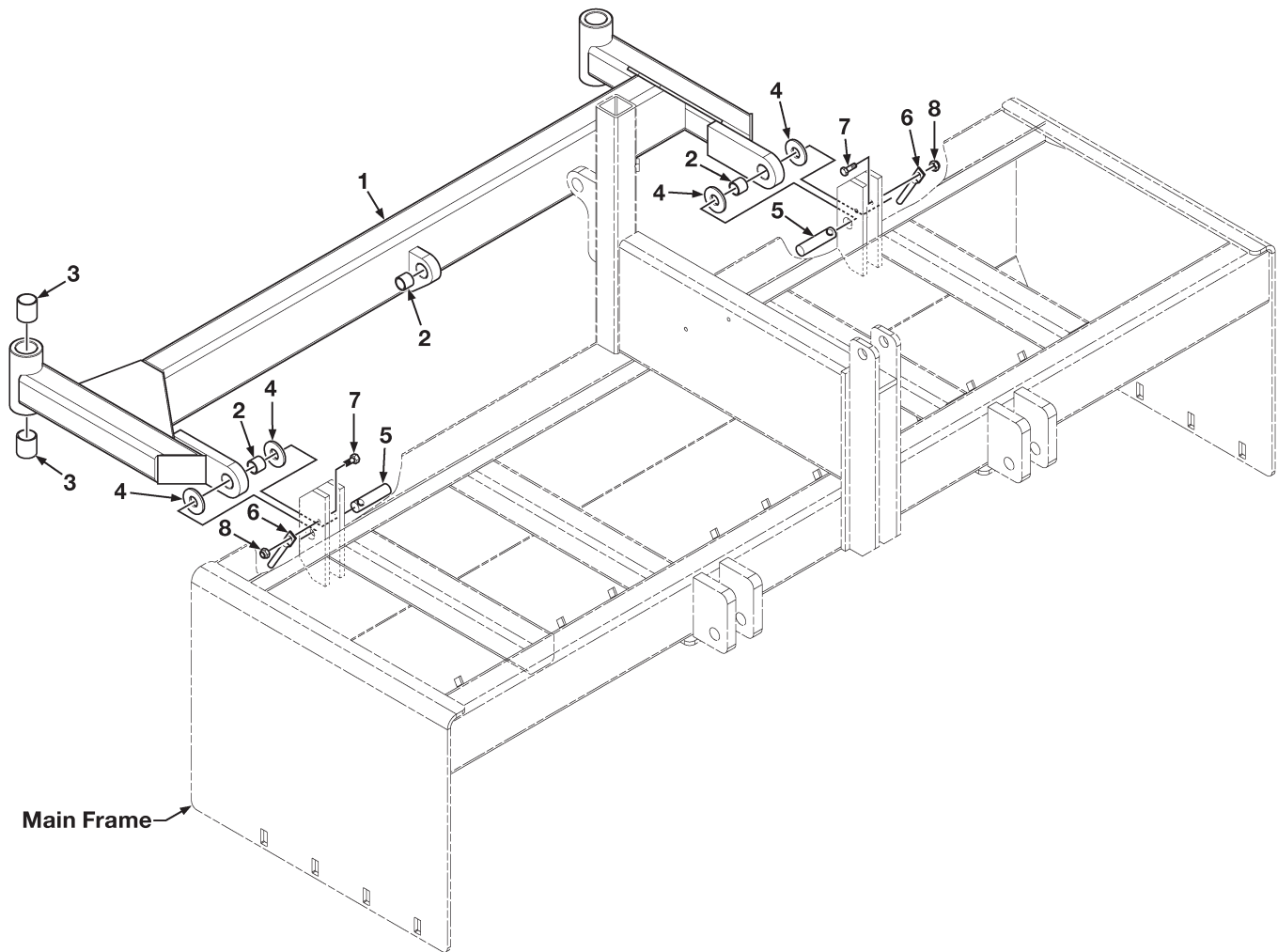
Figure 1. Main Frame and Cutting Edges

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Item	Part No.	Qty	Description
1	315-066-100	1	Frame, Main, Tractor, Single, 7'
	315-064-100	1	Frame, Main, Tractor, Single, 8'
	315-065-100	1	Frame, Main, Tractor, Single, 9'
2	LP	AR	Skid Grip
3	000-190-082	2	Edge, Cutting, End, DBF, 25" Long
4	000-150-265	8	Bolt, Carriage, 5/8"-11UNC x 2" Long
5	000-155-077	AR	Washer, Lock, 5/8"
6	000-158-138	AR	Nut, Hex, 5/8"-11UNC
7	000-190-152	1	Edge, Cutting, DBF, 84" Long
	000-190-153	1	Edge, Cutting, DBF, 96" Long
	000-190-091	1	Edge, Cutting, DBF, 108" Long
8	000-150-263	AR	Bolt, Plow, 5/8"-11UNC x 2" Long
9	000-161-075	2	Pin, Hitch, 1-1/8" Dia. x 7" Long, Category II
10	000-161-019	2	Pin, Hair, Cotter, 3/16" Dia. x 3-3/4" Long
11	000-161-085	1	Pin, Top Link, 1" Dia. x 5-1/4" Long, Category II
12	000-161-028	1	Pin, Lynch, Locking, 7/16"
13	001-001-083	1	Canister, Operators Manual
14	LP	3	Washer, Flat, 1/4"
15	LP	3	Bolt, Hex Head, 1/4"-20UNC x 1" Long
16	LP	3	Nut, Hex, Nylon Lock, 1/4"-20UNC
AR - As Required NSS - Not Serviced Separately ASN - After Serial No. BSN - Before Serial No. LP - Local Purchase			

Laser Grading Box PARTS LIST

Figure 2. Wheel Frame and Related Parts



Laser Grading Box PARTS LIST



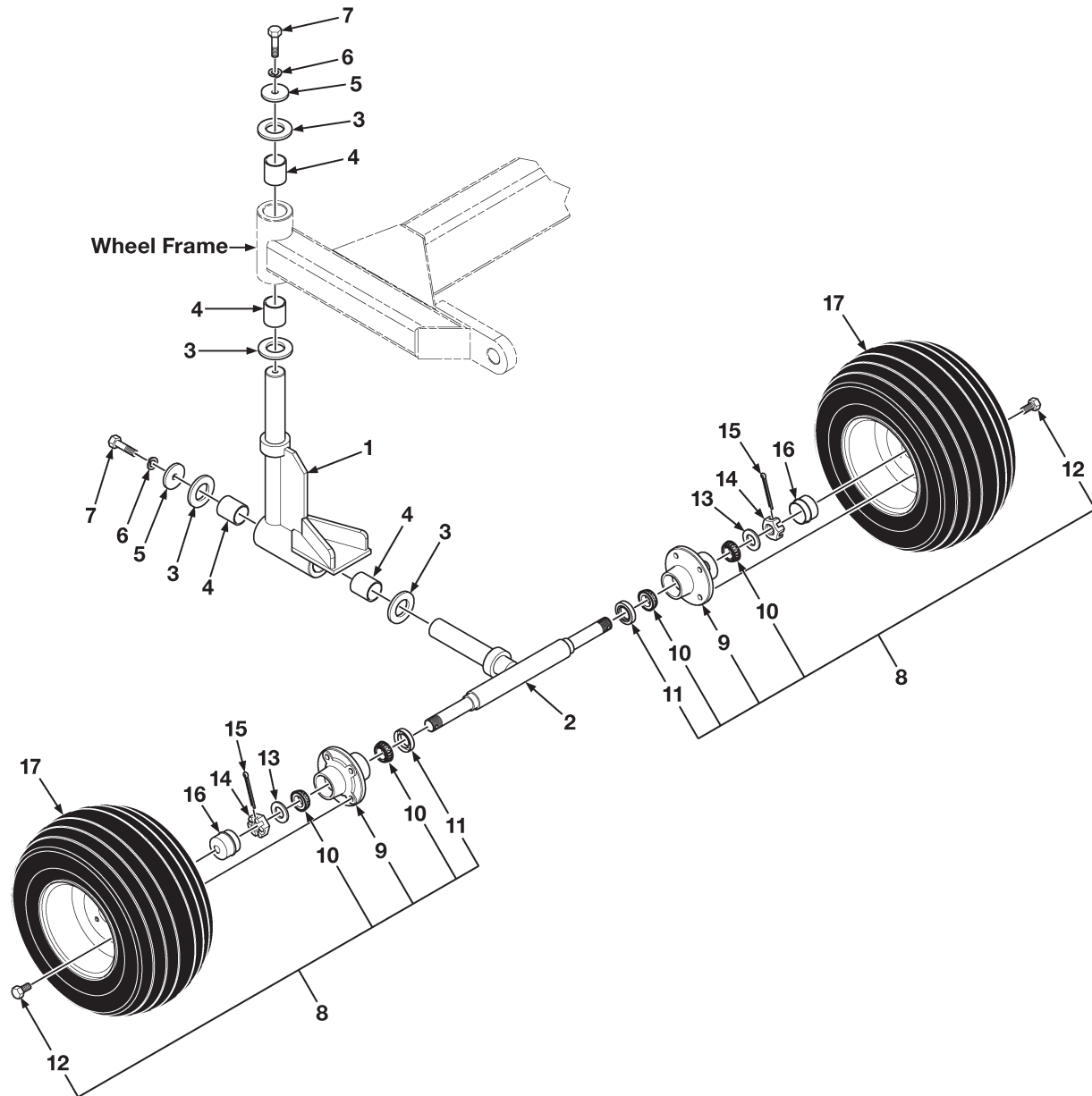
Figure 2. Wheel Frame and Related Parts

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Item	Part No.	Qty	Description
1	315-066-200	1	Frame, Wheel, Tractor, Single, 7'
	315-065-200	1	Frame, Wheel, Tractor, Single, 8' & 9'
			Includes Items 2 & 3
2	000-176-174	3	Bushing, Wheel Frame, 1-1/4" OD x 1" ID x 1" Long
3	000-176-171	4	Bushing, Wheel Frame, 1-3/4" OD x 1-1/2" ID x 1-1/2" Long
4	000-155-003	4	Washer, Flat, 1-1/2" OD x 1" ID x 14 Gauge Thick
5	000-161-065	2	Pin, Pivot, 1" Dia. x 3-1/4" Long
6	000-161-024	2	Pin, Retainer, 3/8" Dia. x 3-1/4" Long
7	LP	2	Bolt, Hex Head, 5/16"-18UNC x 1-1/4" Long
8	LP	2	Nut, Hex, Nylon Lock, 5/16"-18UNC
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Figure 3. Caster Fork and Wheel



Laser Grading Box PARTS LIST



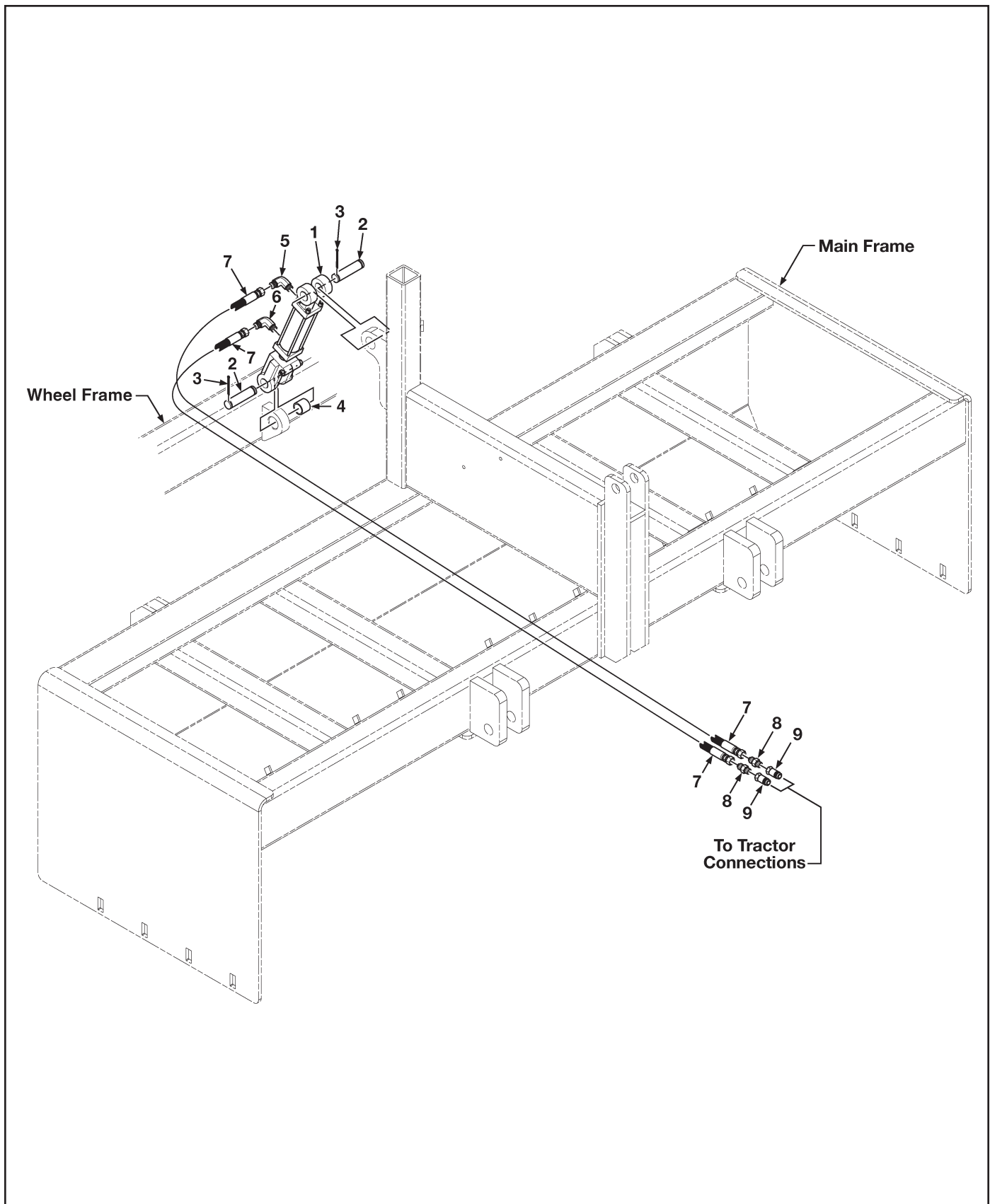
Figure 3. Caster Fork and Wheel

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Item	Part No.	Qty	Description
1	315-065-300	2	Caster Weldment
2	315-065-400	2	Axle Weldment
3	000-155-002	8	Washer, Flat, 2-1/4" OD x 1-1/2" ID x 10 Gauge Thick
4	000-176-171	8	Bushing, Wheel Frame, 1-3/4" OD x 1-1/2" ID x 1-1/2" Long
5	000-155-004	4	Washer, Flat, 2-1/4" OD x 17/32" ID x 1/4" Thick
6	LP	4	Washer, Lock, 1/2"
7	LP	4	Bolt, Hex Head, 1/2"-13UNC x 1-1/4" Long
8	001-001-069	4	Hub Assembly, Includes Items 9 thru 12
9	001-001-074	1	Hub, Wheel, With Outer Race
10	000-176-184	2	Bearing, Roller, Tapered, 1" Dia. Bore
11	000-166-302	1	Seal, Grease, 2" OD x 1-1/4" ID
12	LP	4	Bolt, Hex Head, 1/2"-20UNF x 1" Long
13	000-155-003	4	Washer, Flat, 1-1/2" OD x 1" ID x 14 Gauge
14	000-158-193	4	Nut, Castle, 1"-14UNF
15	LP	4	Pin, Cotter, 1/8" Dia. x 1-1/4" Long
16	001-001-084	4	Cap, Dust
17	001-001-012	2	Wheel/Tire, 18/8.50-12
AR - As Required NSS - Not Serviced Separately ASN - After Serial No. BSN - Before Serial No. LP - Local Purchase			

Laser Grading Box PARTS LIST

Figure 4. Hydraulics Cylinder Only



Laser Grading Box PARTS LIST



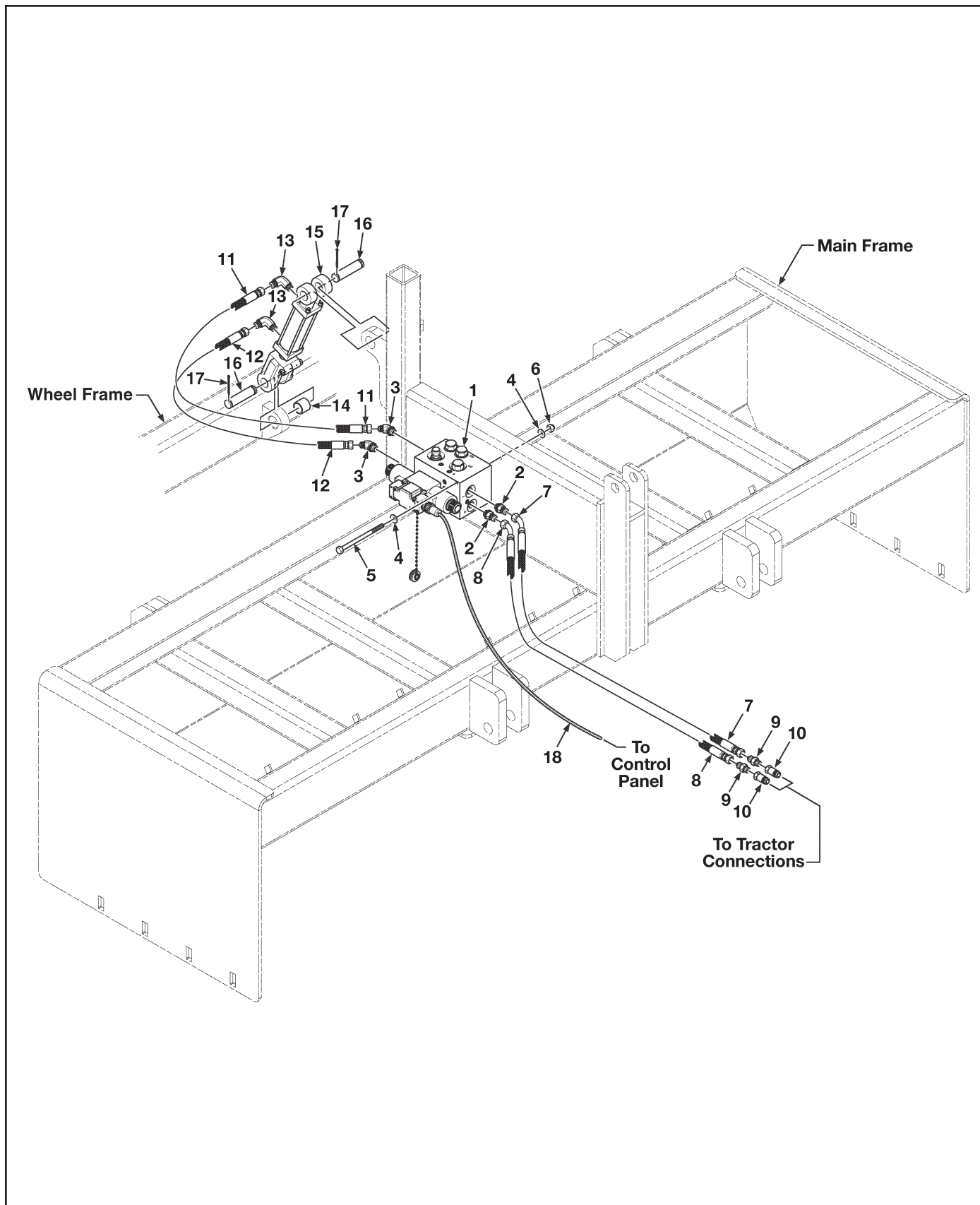
Figure 4. Hydraulics Cylinder Only

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Item	Part No.	Qty	Description
1	000-166-181	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	000-176-174	1	Bushing, Wheel Frame, 1-1/4" OD x 1" ID x 1" Long
5	000-166-488	1	Elbow, 90°, 6MJ x 8MB, With Orifice
6	000-166-417	1	Elbow, 90°, 6MJ x 8MB
7	000-166-480	2	Hose, 1/2" Dia. x 126" Long x 6FJX x 8FJX, 3,000 PSI
8	000-166-168	2	Adapter, Straight, 8MJ x 8MP
9	000-166-210	2	Coupler, Quick, Ag, Male, 1/2"
			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			

Laser Grading Box PARTS LIST

Figure 5. Hydraulics With Optional Valve Assembly



Laser Grading Box PARTS LIST



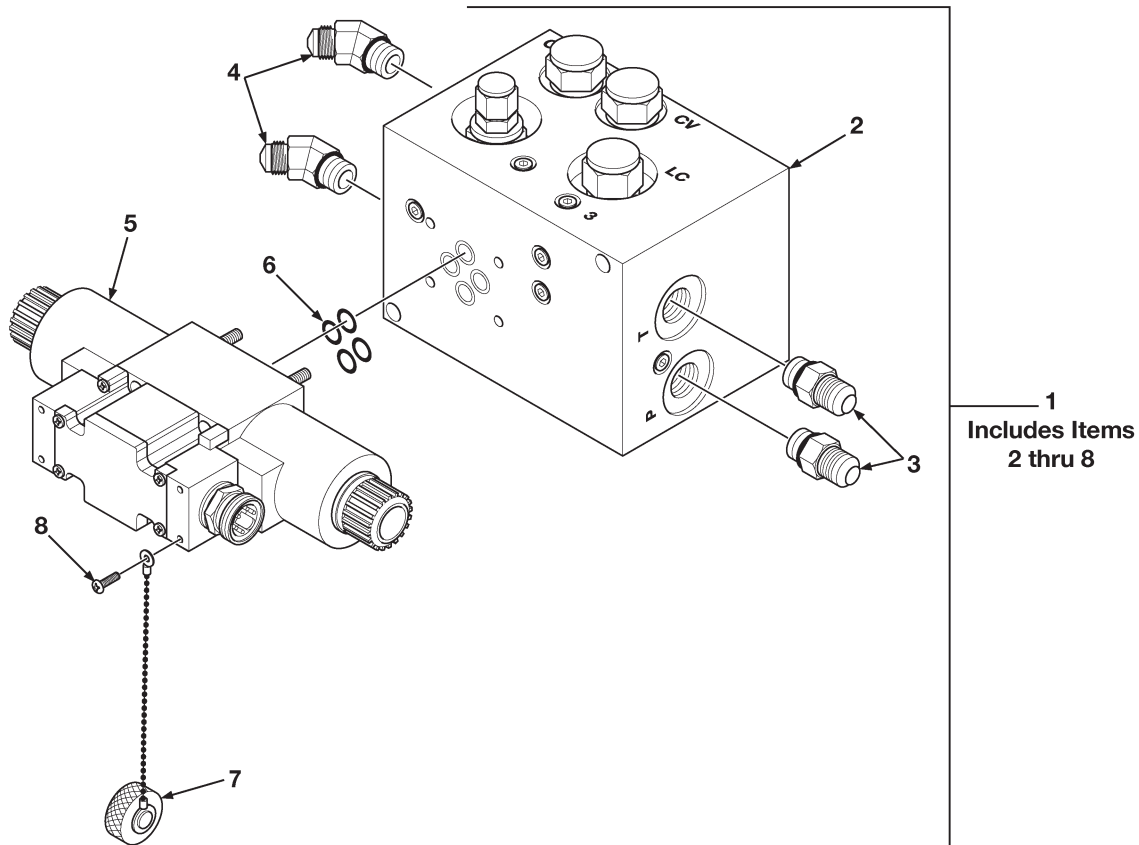
Figure 5. Hydraulics With Optional Valve Assembly

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Item	Part No.	Qty	Description
1	000-166-424	1	Valve Assembly, Hydraulic, Includes Items 2 & 3, See Breakdown Figure 6
2	000-166-170	2	Adapter, Straight, 8MJ x 8MB
3	000-166-175	2	Elbow, 45°, 6MJ x 6MB
4	LP	4	Washer, Flat, 5/16", SAE
5	LP	2	Bolt, Hex Head, 5/16"-18UNC x 5" Long
6	LP	2	Nut, Hex, Nylon Lock, 5/16"-18UNC
7	000-166-187	1	Hose, 1/2" Dia. x 58" Long x 8FJX x 8FJX45, 3,000 PSI
8	000-166-187	1	Hose, 1/2" Dia. x 58" Long x 8FJX x 8FJX45, 3,000 PSI
9	000-166-168	2	Adapter, Straight, 8MJ x 8MP
10	000-166-210	2	Coupler, Quick Disconnect, Ag, Male, 1/2"
11	000-166-185	1	Hose, 3/8" Dia. x 28" Long x 6FJX x 8FJX90, 3,000 PSI
12	000-166-185	1	Hose, 3/8" Dia. x 28" Long x 6FJX x 8FJX90, 3,000 PSI
13	000-166-417	2	Elbow, 90°, 6MJ x 8MB
14	000-176-174	1	Bushing, Wheel Frame, 1-1/4" OD x 1" ID x 1" Long
15	000-166-181	1	Cylinder, Hydraulic, 3" Bore x 6" Stroke, See Breakdown Figure 9 Includes Items 16 & 17
16	000-161-068	2	Pin, Cylinder, 1" Dia. x 3-3/8" Long
17	LP	4	Pin, Cotter, 3/16" Dia. x 1-3/4" Long
18	000-200-106	1	Cable, Solenoid, 90° Connector, 12' Long
			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 6. Hydraulic Valve Assembly



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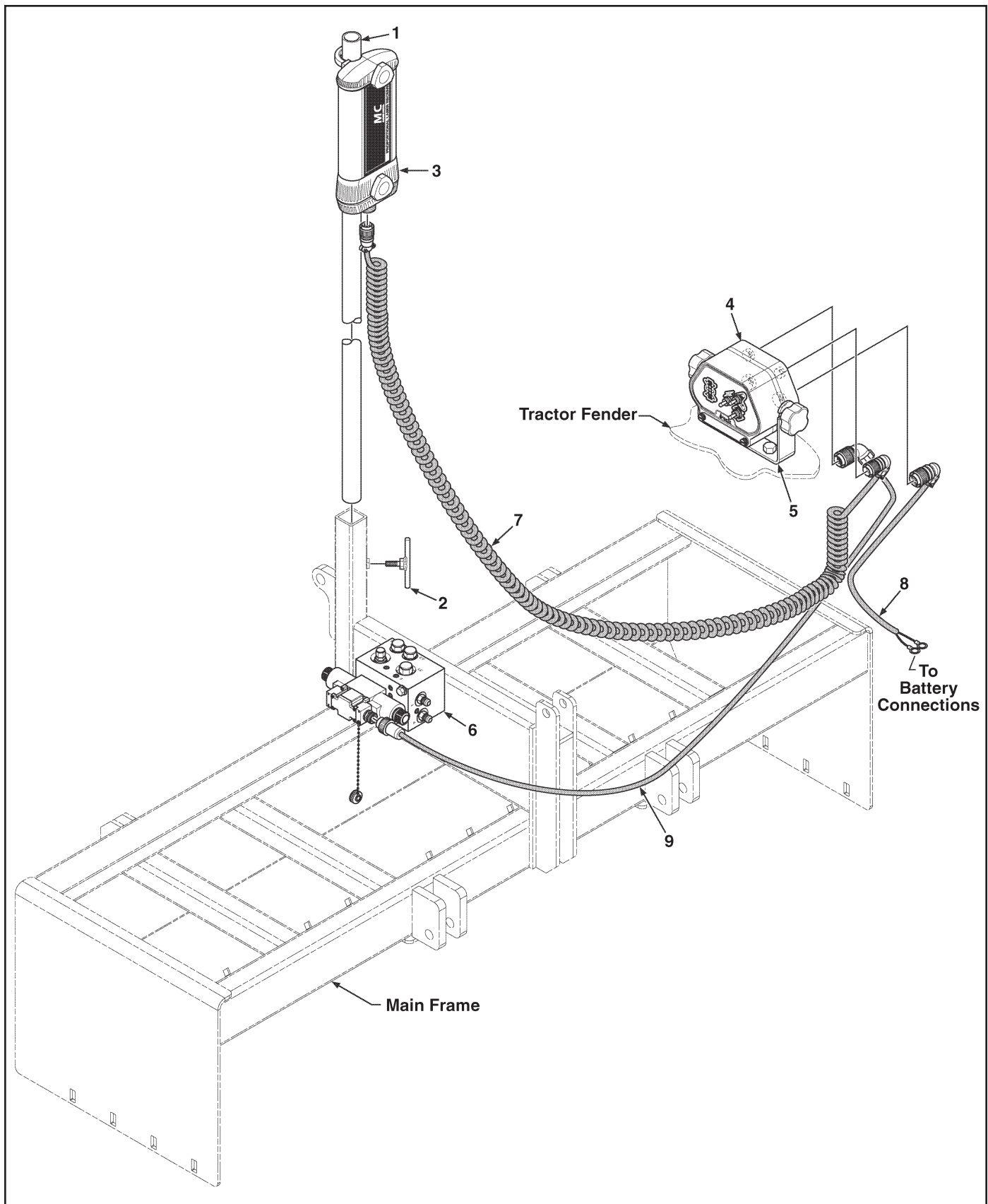
Figure 6. Hydraulic Valve Assembly

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Item	Part No.	Qty	Description
1	000-166-424	1	Valve Assembly, Hydraulic, Includes Items 2 thru 8
2	NSS	1	Manifold Block, Single
3	000-166-170	2	Adapter, Straight, 8MJ x 8MB
4	000-166-175	2	Elbow, 45°, 6MJ x 6MB
5	000-166-522	1	Valve, Directional, Includes Item 6
6	LP	4	O-Ring, Directional Valve
7	001-001-060	1	Cap, Quick Disconnect, with Chain
8	LP	1	Screw, Pan Head, Phillips, #6-32UNC x 1/2" Long
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Figure 7. Laser Controls and Related Parts



Laser Grading Box PARTS LIST



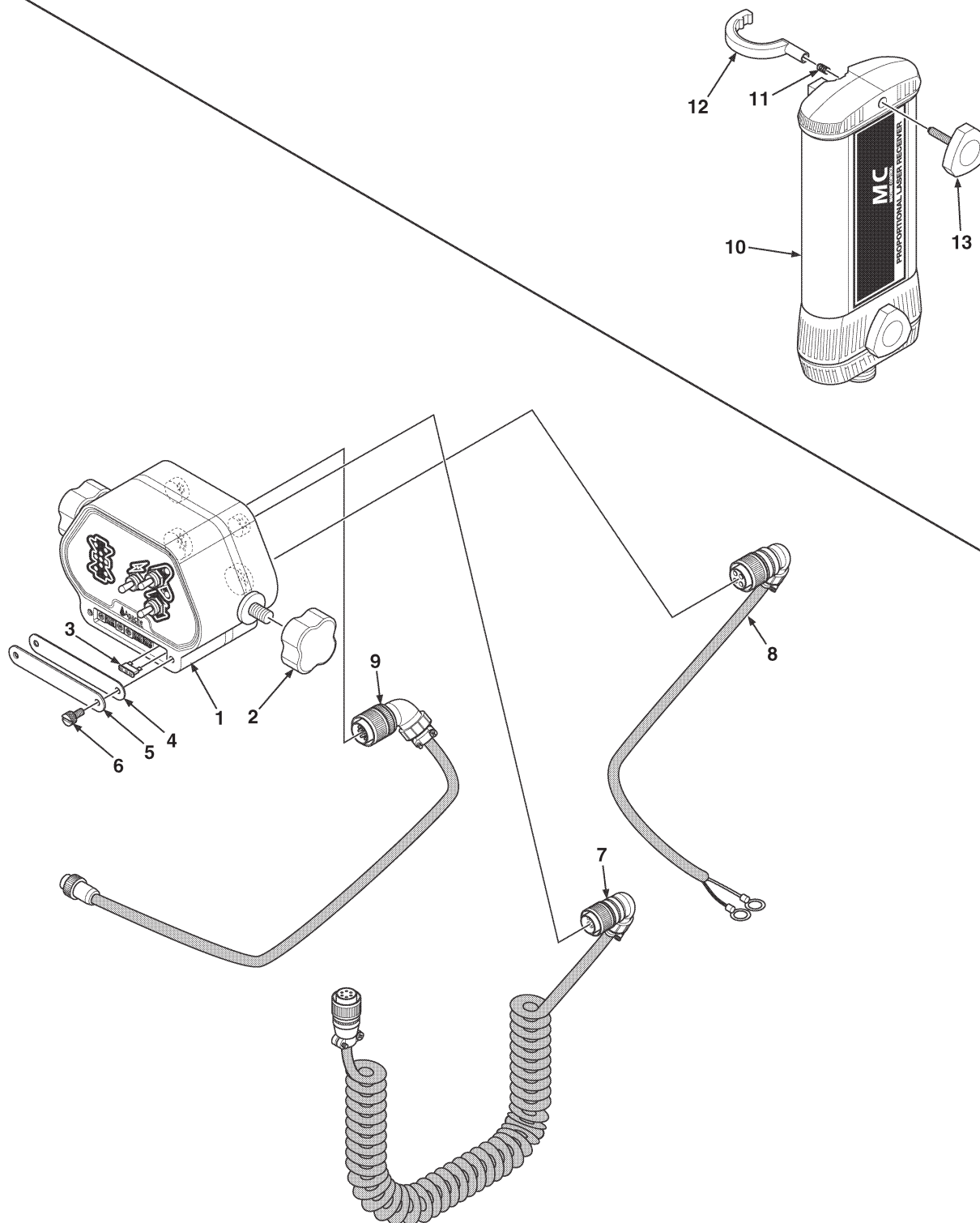
Figure 7. Laser Controls and Related Parts

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Item	Part No.	Qty	Description
1	001-001-052	1	Pole, Mast
2	001-001-053	1	Handle, Tee
3	000-200-093	1	Sensor, Bullseye 5MC
4	000-200-092	1	Panel, Control, See Breakdown Figure 8
5	001-001-075	1	Bracket, Control Panel
6	000-166-424	1	Valve Assembly, Hydraulic
7	000-200-099	1	Cable, Sensor, Coiled, 15' Long
8	000-200-097	1	Cable, Power, 2-Wire, 20' Long
9	000-200-106	1	Cable, Solenoid, 90° Connector, 12' Long
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Laser Grading Box PARTS LIST

Figure 8. Control Panel, Receiver, Cables and Related Parts



Laser Grading Box PARTS LIST



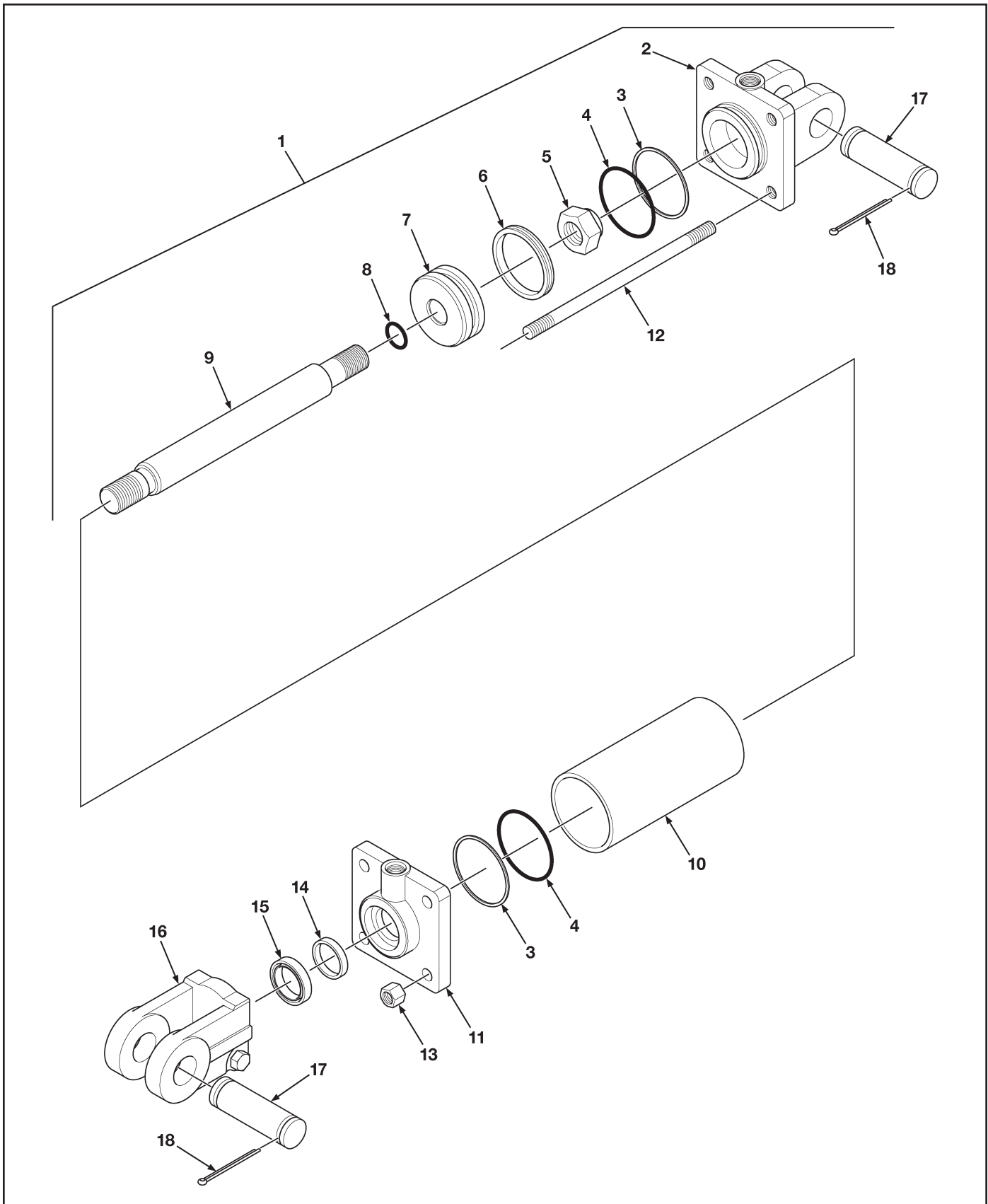
Figure 8. Control Panel, Receiver, Cables and Related Parts

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Item	Part No.	Qty	Description
1	000-200-092	1	Panel Assembly, Control, Includes Items 2 thru 6
2	000-200-112	2	Knob
3	LP	1	Fuse, 25 Amp
4	000-200-115	1	Gasket, Front Cover Plate
5	000-200-114	1	Plate, Front Cover
6	000-200-113	2	Screw, Thumb
7	000-200-099	1	Cable, Sensor, Coiled, 15' Long
8	000-200-097	1	Cable, Power, 2-Wire, 20' Long
9	000-200-106	1	Cable, Solenoid, 90° Connector, 12' Long
10	000-200-093	1	Sensor, Bullseye 5MC, Includes Items 11 thru 13
11	000-161-094	2	Spring, Clamp, Compression
12	000-200-108	2	Clamp, Universal, 2" Dia.
13	000-200-107	2	Knob, Clamp
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Figure 9. Cylinder Assembly, 3" Bore x 6" Stroke



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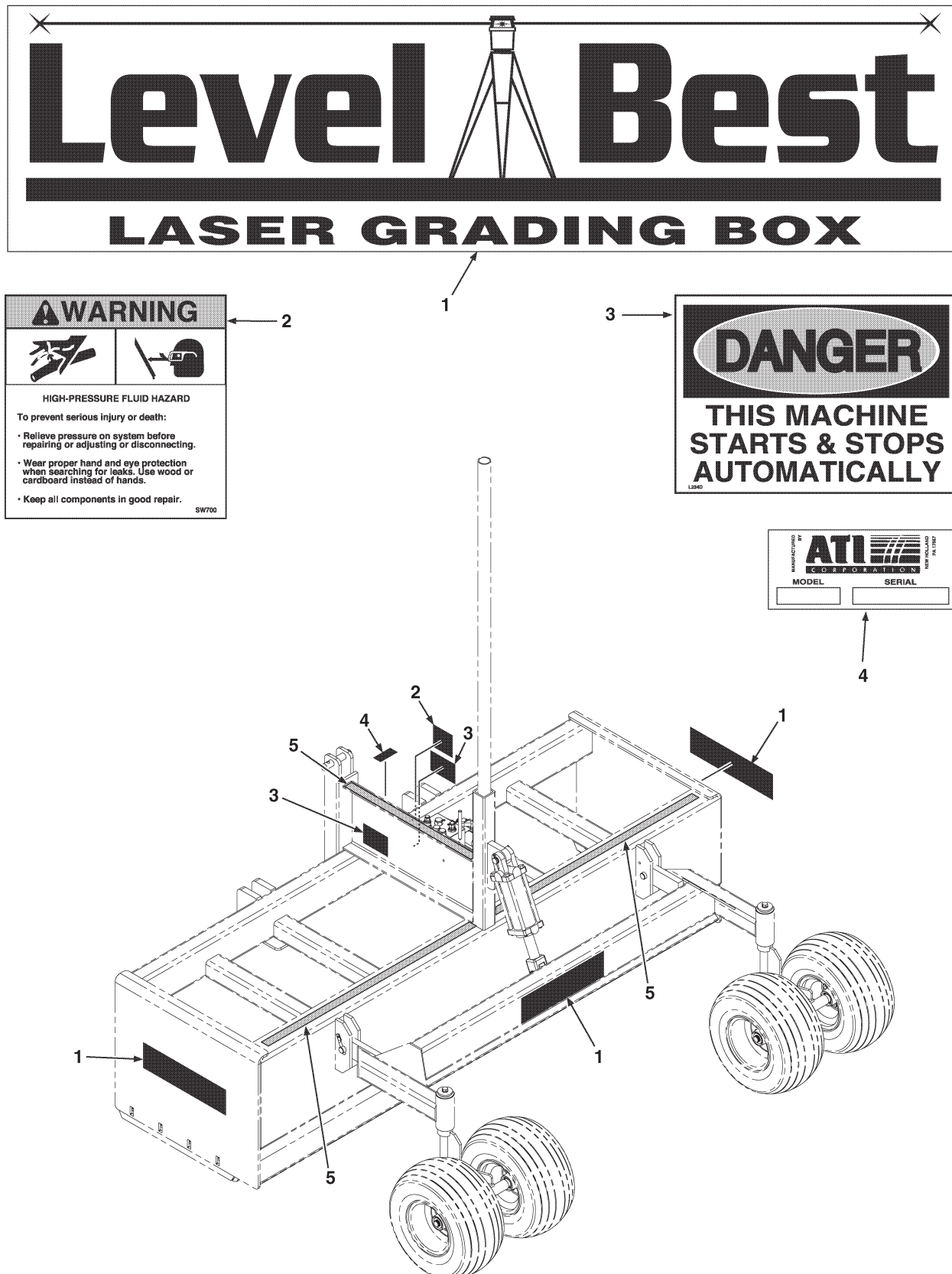
Figure 9. Cylinder Assembly, 3" Bore x 6" Stroke

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Item	Part No.	Qty	Description
1	000-166-181	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 10. Decals



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Figure 10. Decals

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Item	Part No.	Qty	Description
1	000-186-045	3	Decal, Level Best Logo
2	000-186-041	1	Decal, Warning, High Pressure
3	000-186-047	2	Decal, Danger, This Machine Starts & Stops Automatically
4	000-186-035	1	Plate, Model/Serial, Adhesive Back
5	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			