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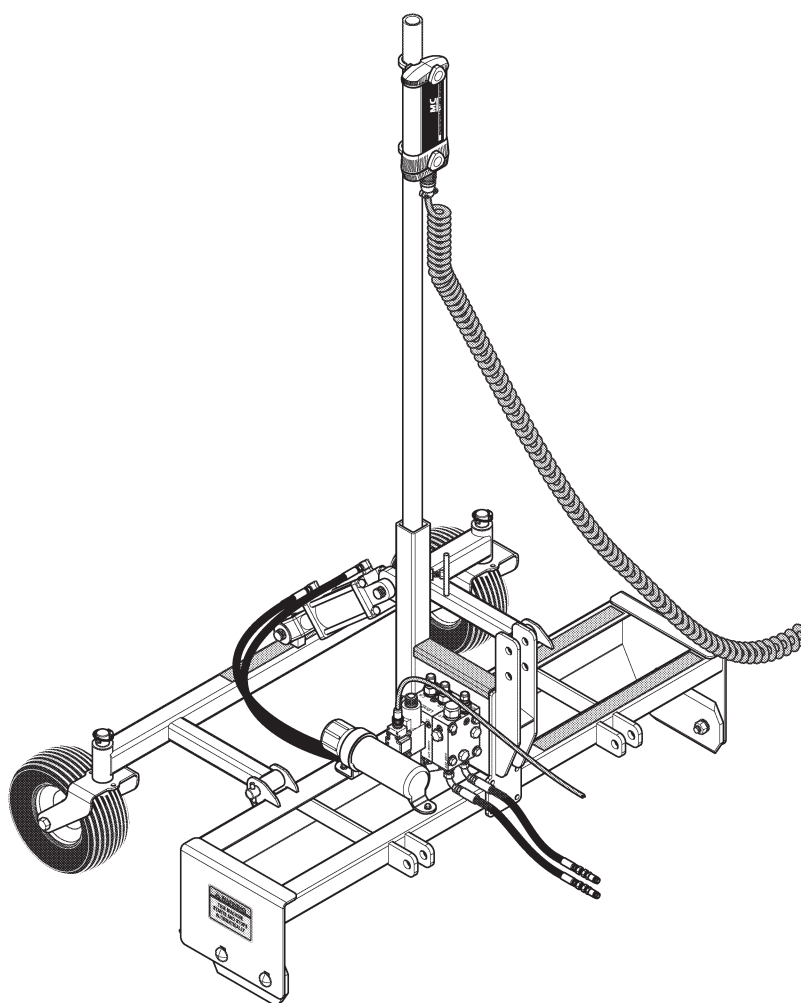
LASER GRADING BOX

PARTS MANUAL

FOR

COMPACT - SINGLE

APACHE/SPECTRA, LEICA, MEI/AGL & TOPCON



ATI Corporation

New Holland, PA 17557

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

1-800-342-0905

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AUGUST 2013

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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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Standard Models

Part Number	Model Number	Description
315-070-000	SC48	Box, Grader, Tractor, Single, 48", Cylinder Only
315-071-000	SC54	Box, Grader, Tractor, Single, 54", Cylinder Only
315-072-000	SC60	Box, Grader, Tractor, Single, 60", Cylinder Only
315-073-000	SC66	Box, Grader, Tractor, Single, 66", Cylinder Only
315-074-000	SC72	Box, Grader, Tractor, Single, 72", Cylinder Only
000-166-643		Kit, Hydraulic, Single, Apache, Includes Valve Assembly, Hoses, Fittings & Solenoid Cable
000-166-653		Kit, Hydraulic, Single, Leica PowerBlade, Includes Valve Assembly, Hoses, Fittings and Solenoid Cable
000-166-644		Kit, Hydraulic, Single, MEI/AGL, Includes Valve Assembly, Hoses, Fittings and Solenoid Cable
000-166-630		Kit, Hydraulic, Single, Topcon, Includes System Five Remote, Power and Solenoid Cable (does not include Receiver Cable)
000-200-223		Kit, Hydraulic, Single, Electric Actuator, Includes Control Interface Box & Cables (Power & Solenoid)
000-200-095		Kit, Laser Controls, Single Apache, Includes Single Panel, 360° Receiver & Cables (Power, Receiver & Solenoid)
000-200-210		Kit, Laser Controls, Single, Leica PowerBlade, Includes MCP-700 Panel, 360 Degree Receiver, Power Cable and Receiver Cable
000-200-218		Kit, Laser Controls, Single, Spectra, Includes CB25 Control Panel, 360° Receiver, Power Cable and Receiver Cable

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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 one year 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 for your Laser Grading Box, ATI Corporation recommends going to your local Laser 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 Laser 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.



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Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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List Of Parts Illustrations

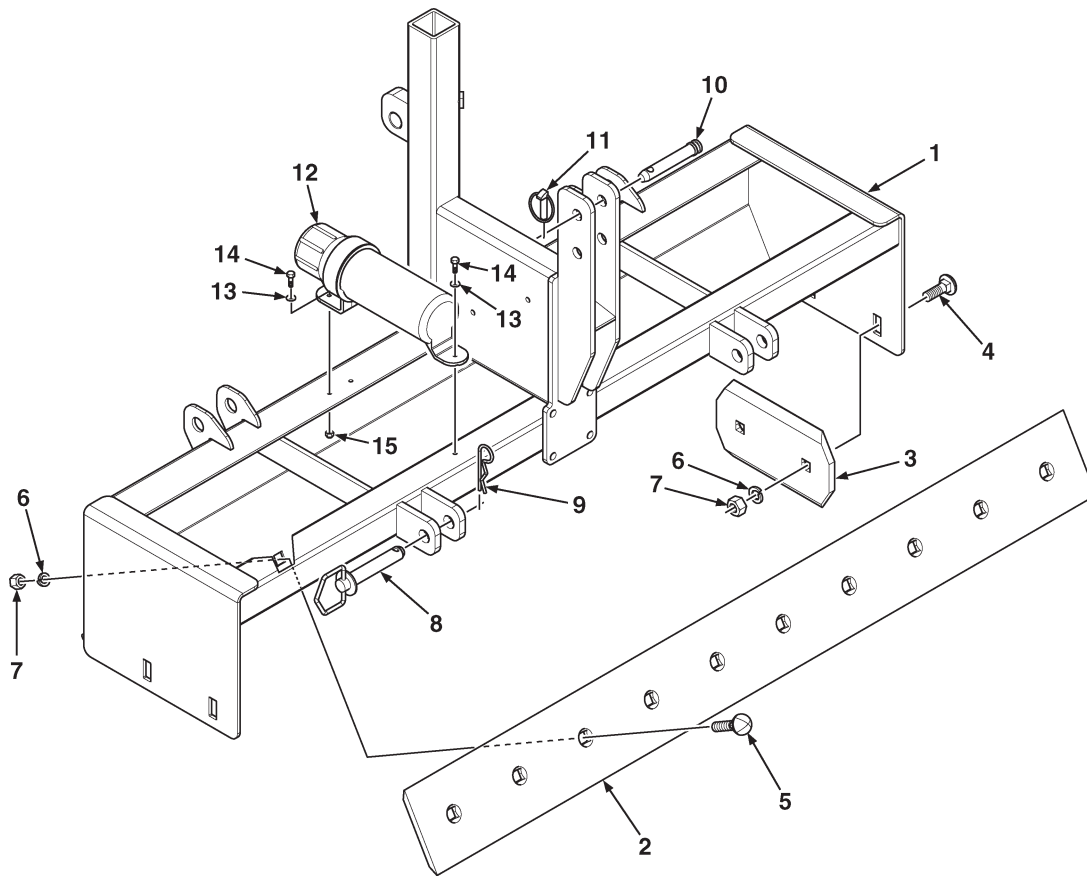
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Figure 1. Main Frame and Cutting Edges



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Figure 1. Main Frame and Cutting Edges

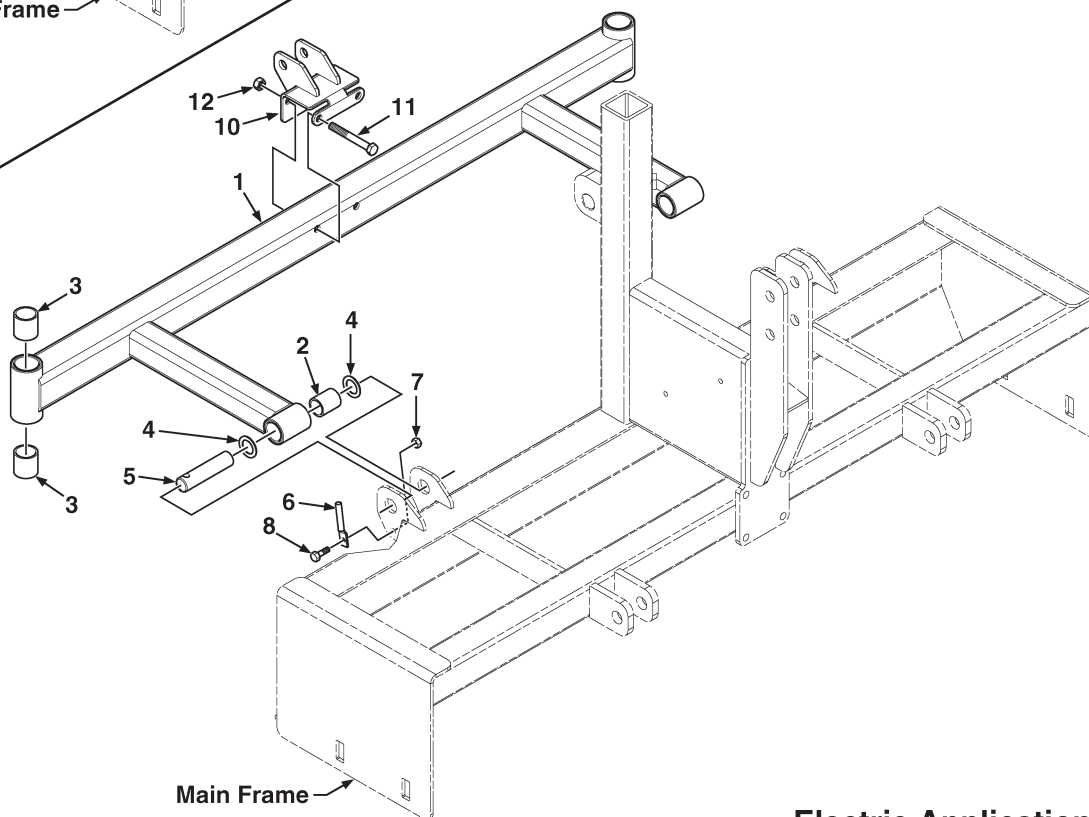
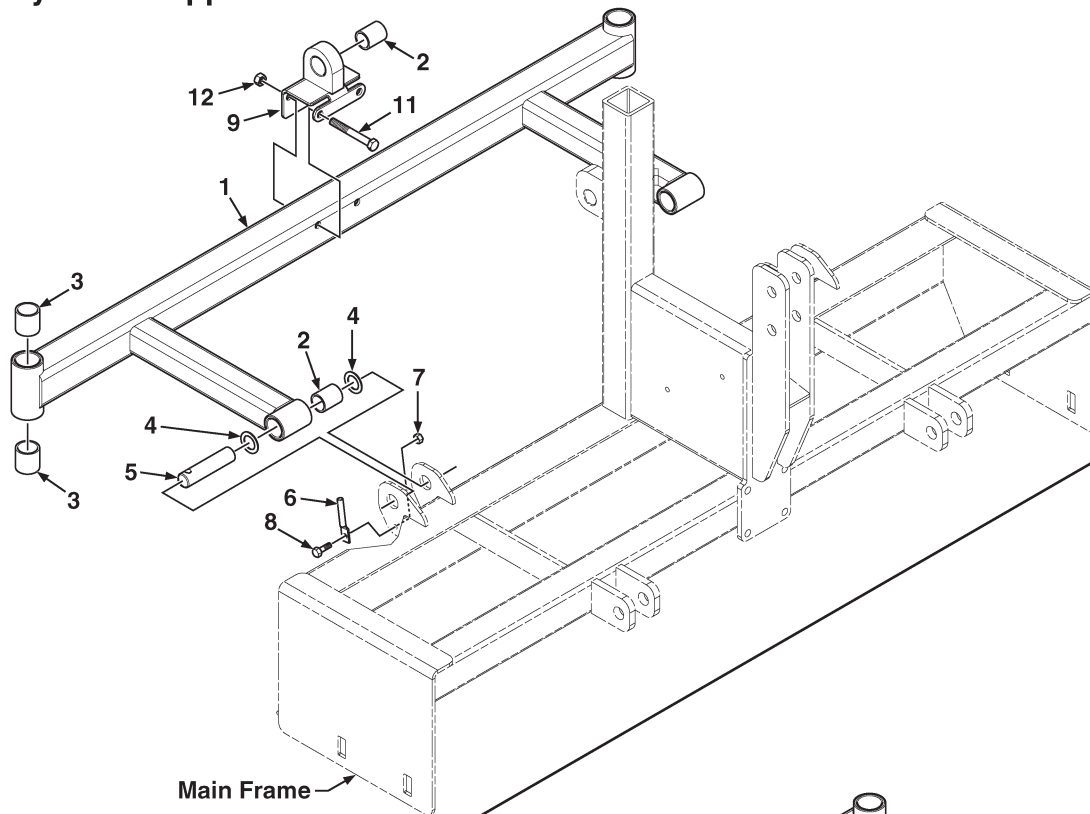
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Item	Part No.	Qty	Description
1	315-070-100	1	Frame Weldment, Main 48"
	315-071-100	1	Frame Weldment, Main 54"
	315-072-100	1	Frame Weldment, Main 60"
	315-073-100	1	Frame Weldment, Main 66"
	315-074-100	1	Frame Weldment, Main 72"
2	000-190-162	1	Edge, Cutting, Bolt-On, DBF, 48"
	000-190-163	1	Edge, Cutting, Bolt-On, DBF, 54"
	000-190-128	1	Edge, Cutting, Bolt-On, DBF, 60"
	000-190-164	1	Edge, Cutting, Bolt-On, DBF, 66"
	000-190-075	1	Edge, Cutting, Bolt-On, DBF, 72"
3	000-190-161	2	Edge, Cutting, End, DBF, 10-1/4" Long
4	000-150-253	4	Bolt, Carriage, 5/8"-11UNC x 1-3/4" Long
5	000-150-263	AR	Bolt, Plow, 5/8"-11UNC x 2" Long
6	000-155-077	AR	Washer, Lock, 5/8"
7	000-158-138	AR	Nut, Hex, 5/8"-11UNC
8	000-161-076	2	Pin, Hitch, Cat. I, 7/8" Dia. x 5-1/4" Long
9	000-161-019	2	Cotter, Hairpin, .177" Dia. Wire x 3-3/4" Long
10	000-161-080	1	Pin, Top Link, Cat. I, 3/4" Dia. x 4-1/2" Long
11	000-161-028	1	Pin, Lynch, Locking, 7/16"
12	001-001-083	1	Canister, Operators/Parts Manuals
13	000-155-020	3	Washer, Flat, 1/4"
14	000-150-049	3	Bolt, Hex Head, 1/4"-20UNC x 1" Long
15	000-158-050	2	Nut, Hex, Nylon Lock, 1/4"-20UNC
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Figure 2. Wheel Frame and Related Parts

Hydraulic Application



Electric Application

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Figure 2. Wheel Frame and Related Parts

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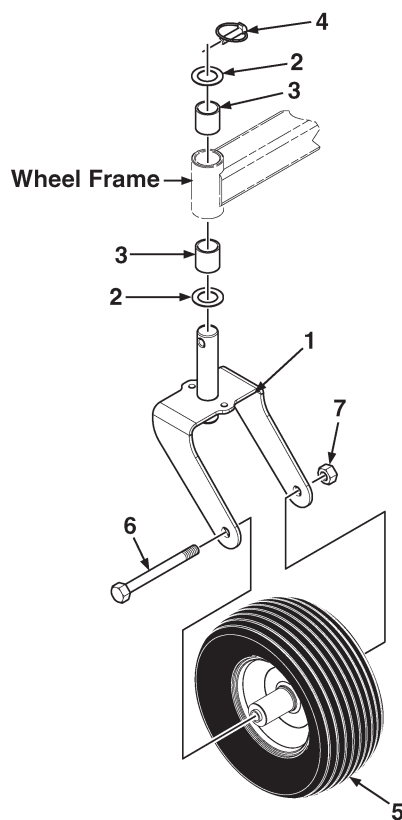
Item	Part No.	Qty	Description
1	315-071-400	1	Frame Weldment, Wheel, 3-Pt, 48" & 54"
	315-072-400	1	Frame Weldment, Wheel, 3-Pt, 60", 66" & 72"
			Includes Item 2 & 3
2	000-176-174	AR	Bushing, 1-1/4" OD x 1" ID x 1" Long
3	000-176-177	4	Bushing, 1-1/2" OD x 1-1/4" ID x 1-1/2" Long
4	000-155-003	4	Bushing, Washer, 1-1/2" OD x 1" ID x 14 Gauge
5	200-192-000	2	Pin, 1" Dia. x 4-1/4" Long
6	000-161-024	2	Pin, Retainer, 3/8" Dia. x 3-1/4" Long
7	000-150-082	2	Bolt, Hex Head, 5/16"-18UNC x 1-1/4" Long
8	000-158-066	2	Nut, Hex, Nylon Lock, 5/16"-18UNC
9	315-643-000	1	Mount, Cylinder
10	315-642-000	1	Mount, Linear Actuator
11	000-150-165	2	Bolt, Hex Head, 7/16"-14UNC x 3-1/2" Long
12	000-158-098	2	Nut, Hex, Nylon Lock, 7/16"-14UNC
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Figure 3. Caster Fork and Wheel



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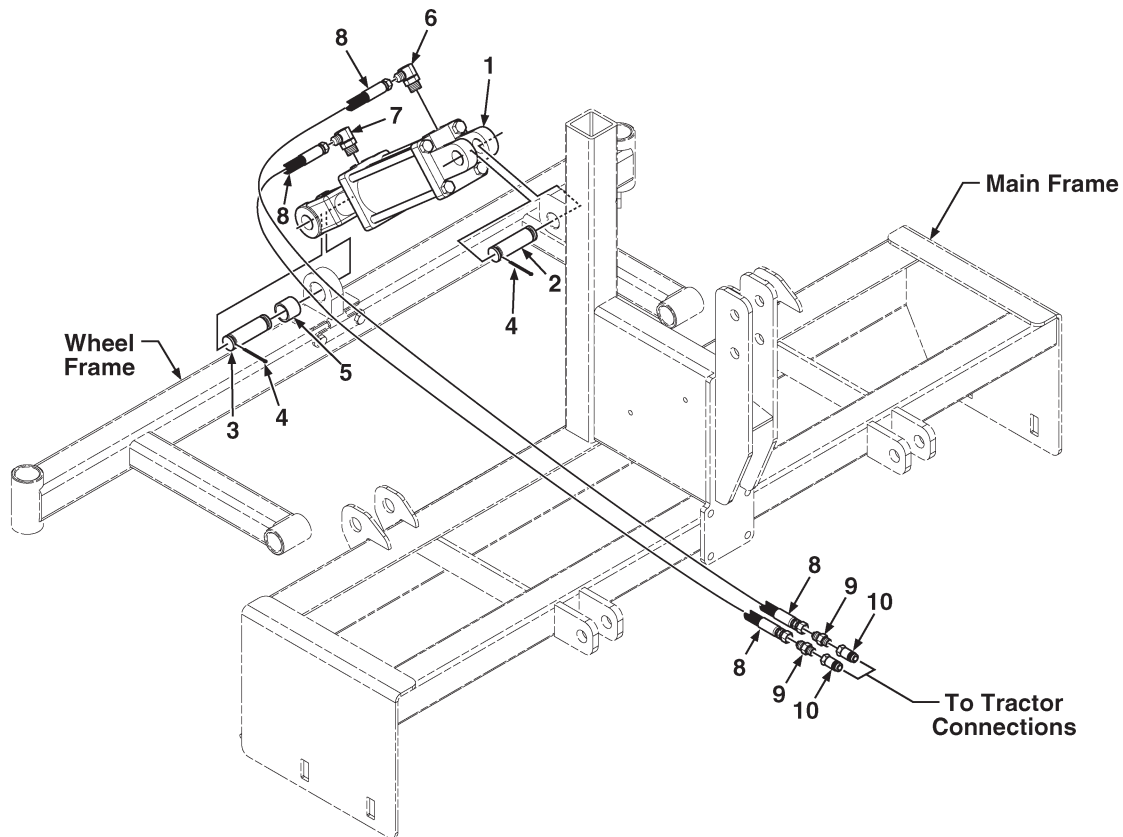
Figure 3. Caster Fork and Wheel

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Item	Part No.	Qty	Description
1	315-607-000	2	Fork, Caster
2	000-155-012	4	Bushing, Washer, 2" OD x 1-9/32" ID x 16 Gauge
3	000-176-177	4	Bushing, 1-1/2" OD x 1-1/4" ID x 1-1/2" Long
4	000-161-028	1	Pin, Lynch, Locking, 7/16"
5	001-001-100	2	Wheel/Tire, 13/6.50-6, White Wheel
6	000-150-284	2	Bolt, Hex Head, 5/8"-11UNC x 7-1/2" Long
7	000-158-140	2	Nut, Hex, Nylon Lock, 5/8"-11UNC
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Figure 4. Hydraulics Cylinder Only



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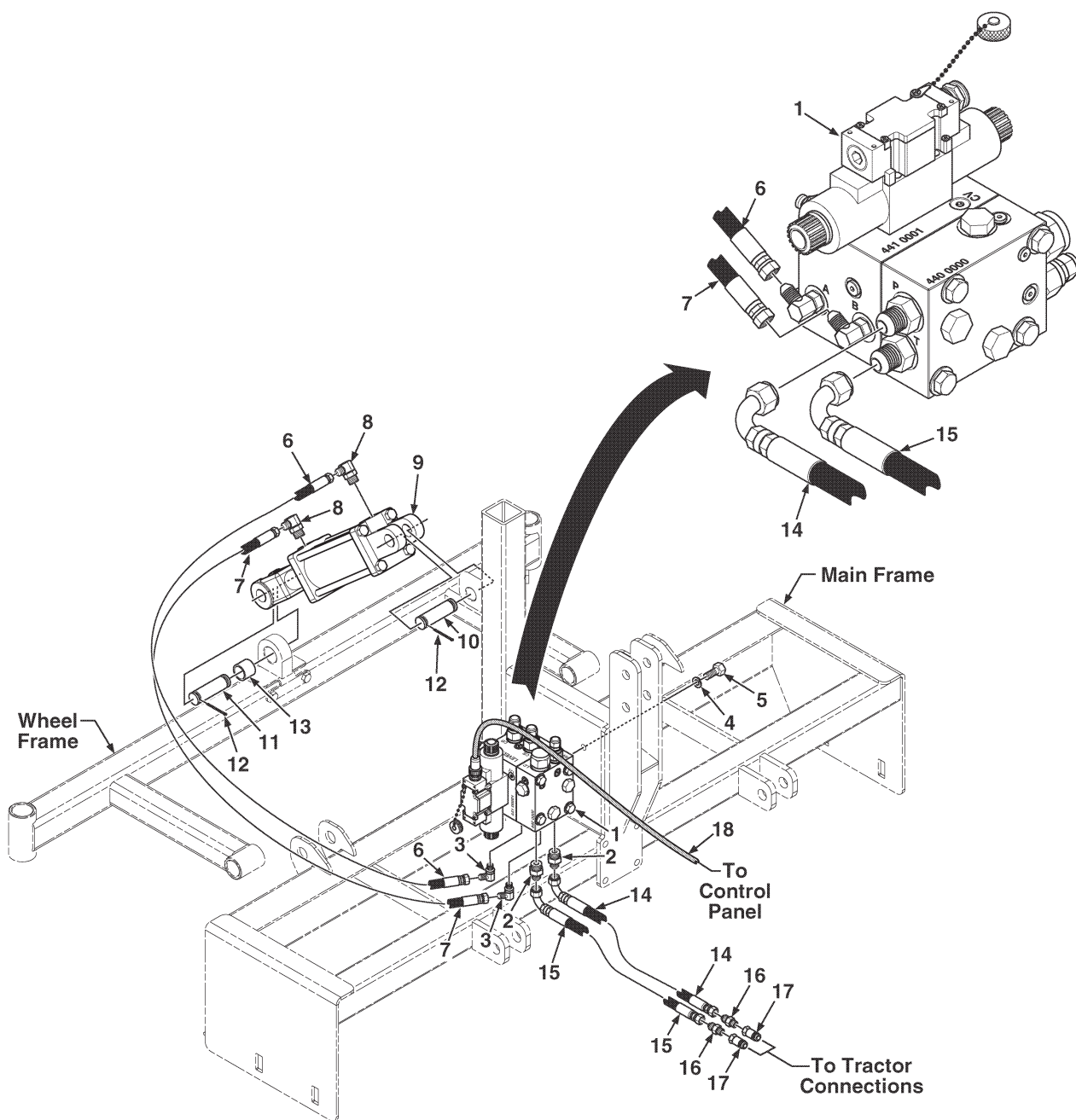
Figure 4. Hydraulics Cylinder Only

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Item	Part No.	Qty	Description
1	000-166-537	1	Cylinder, Hydraulic, 3" Bore x 6" Stroke, See Breakdown Figure 19 Includes Items 2 thru 4
2	000-161-068	1	Pin, Cylinder, 1" Dia. x 3-3/8" Long
3	000-161-162	1	Pin, Cylinder, 1" Dia. x 4" Long
4	000-161-137	4	Pin, Cotter, 3/16" Dia. x 1-3/4" Long
5	000-176-174	3	Bushing, 1-1/4" OD x 1" ID x 1" Long
6	000-166-488	1	Elbow, 90°, 6MJ x 8MB, With Orifice
7	000-166-417	1	Elbow, 90°, 6MJ x 8MB
8	000-166-453	2	Hose, 1/2" Dia. x 90" Long x 6FJX x 8FJX, 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"
			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
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**Figure 5. Hydraulics With Optional Valve Assembly
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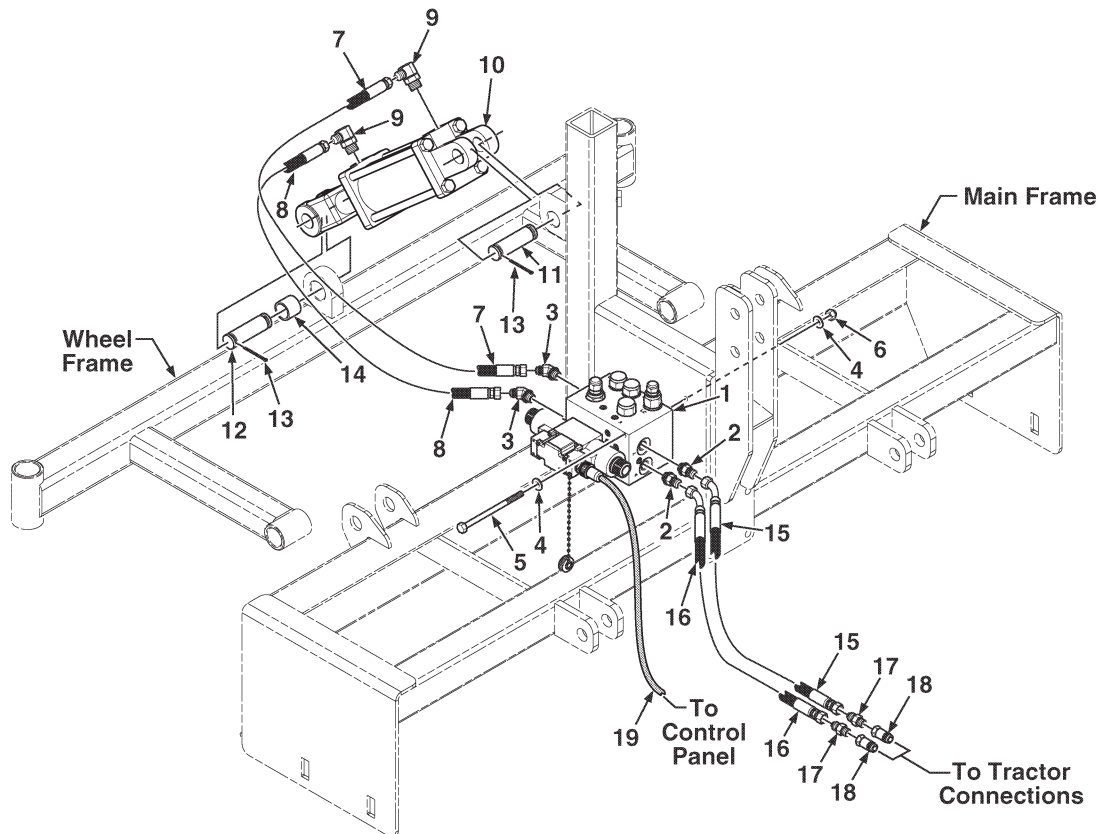
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**Figure 5. Hydraulics With Optional Valve Assembly
ASN2095**

Item	Part No.	Qty	Description
1	000-166-497	1	Valve Assembly, Hydraulic Single, Includes Items 2 & 3, See Breakdown Figure 7
2	000-166-401	2	Adapter, Straight, 8MJ x 10MB
3	000-166-175	2	Elbow, 45°, 6MJ x 6MB
4	000-155-058	2	Washer, Lock, 1/2", SAE
5	000-150-074	2	Bolt, Hex Head, 1/2"-11UNC x 1-1/4" Long
6	000-166-429	1	Hose, 3/8" Dia. x 36" Long x 6FJX x 6FJX
7	000-166-429	1	Hose, 3/8" Dia. x 36" Long x 6FJX x 6FJX
8	000-166-417	2	Elbow, 90°, 6MJ x 8MB
9	000-166-537	1	Cylinder, Hydraulic, 3" Bore x 6" Stroke, See Breakdown Figure 19 Includes Items 10 thru 12
10	000-161-068	1	Pin, Cylinder, 1" Dia. x 3-3/8" Long
11	000-161-162	1	Pin, Cylinder, 1" Dia. x 4" Long
12	000-161-137	4	Pin, Cotter, 3/16" Dia. x 1-3/4" Long
13	000-176-174	3	Bushing, 1-1/4" OD x 1" ID x 1" Long
14	000-166-645	1	Hose, 1/2" Dia. x 58" Long x 8FJX x 8FJX90, 3,000 PSI
15	000-166-645	1	Hose, 1/2" Dia. x 58" Long x 8FJX x 8FJX90, 3,000 PSI
16	000-166-168	2	Adapter, Straight, 8MJ x 8MP
17	000-166-210	2	Coupler, Quick Disconnect, Ag, Male, 1/2"
18	000-200-151	1	Cable, Solenoid, 90° 3-Wire, Quick Disconnect, 12" Long, Apache CB26/Spectra CB25
	000-200-209	1	Cable, Solenoid, Quick Disconnect, 12' Long, Leica MCP700
	000-200-144	1	Cable, Solenoid, Quick Disconnect, 12' Long, MEI/AGL
	000-200-171	1	Cable, Power/Remote/Solenoid, Topcon System Five & LS-B4
			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
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**Figure 6. Hydraulics With Optional Valve Assembly
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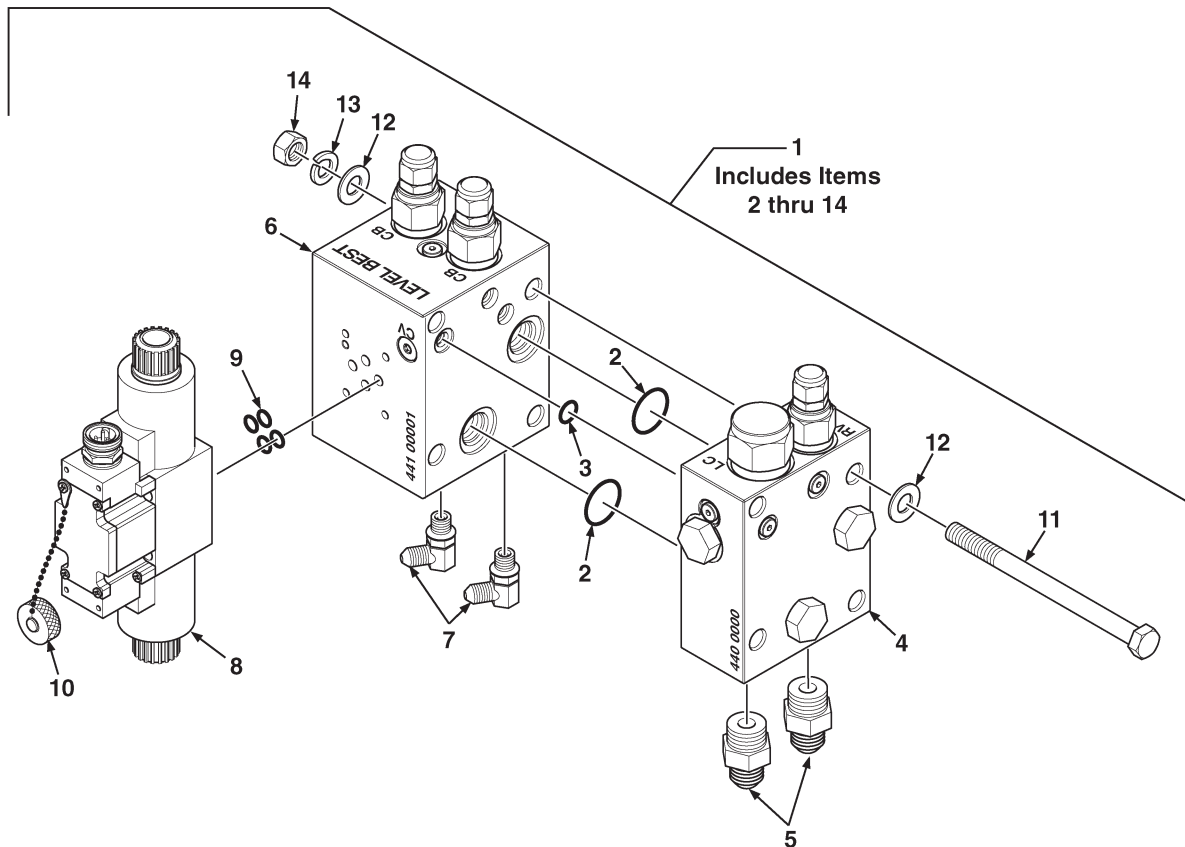
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**Figure 6. Hydraulics With Optional Valve Assembly
BSN2096**

Item	Part No.	Qty	Description
1	000-166-408	1	Valve Assembly, Hydraulic Single, Includes Items 2 & 3, See Breakdown Figure 8
2	000-166-170	2	Adapter, Straight, 8MJ x 8MB
3	000-166-175	1	Elbow, 45°, 6MJ x 6MB
4	000-155-030	4	Washer, Flat, 5/16", SAE
5	000-150-112	4	Bolt, Hex Head, 5/16"-18UNC x 5" Long
6	000-158-066	4	Nut, Hex, Nylon Lock, 5/16"-18UNC
7	000-166-418	1	Hose, 3/8" Dia. x 28" Long x 6FJX x 6FJX
8	000-166-418	1	Hose, 3/8" Dia. x 28" Long x 6FJX x 6FJX
9	000-166-417	2	Elbow, 90°, 6MJ x 8MB
10	000-166-537	1	Cylinder, Hydraulic, 3" Bore x 6" Stroke, See Breakdown Figure 19 Includes Items 11 thru 13
11	000-161-068	1	Pin, Cylinder, 1" Dia. x 3-3/8" Long
12	000-161-162	1	Pin, Cylinder, 1" Dia. x 4" Long
13	000-166-137	4	Pin, Cotter, 3/16" Dia. x 1-3/4" Long
14	000-176-174	3	Bushing, 1-1/4" OD x 1" ID x 1" Long
15	000-166-187	1	Hose, 1/2" Dia. x 58" Long x 8FJX x 8FJX45, 3,000 PSI
16	000-166-187	1	Hose, 1/2" Dia. x 58" Long x 8FJX x 8FJX45, 3,000 PSI
17	000-166-168	2	Adapter, Straight, 8MJ x 8MP
18	000-166-210	2	Coupler, Quick Disconnect, Ag, Male, 1/2"
19	000-200-151	1	Cable, Solenoid, 90° 3-Wire, Quick Disconnect, 12" Long, Apache CB26/Spectra CB25
	000-200-209	1	Cable, Solenoid, Quick Disconnect, 12' Long, Leica MCP700
	000-200-144	1	Cable, Solenoid, Quick Disconnect, 12' Long, MEI/AGL
	000-200-171	1	Cable, Power/Remote/Solenoid, Topcon System Five & LS-B4
			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
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Figure 7. Hydraulic Valve Assembly ASN2095



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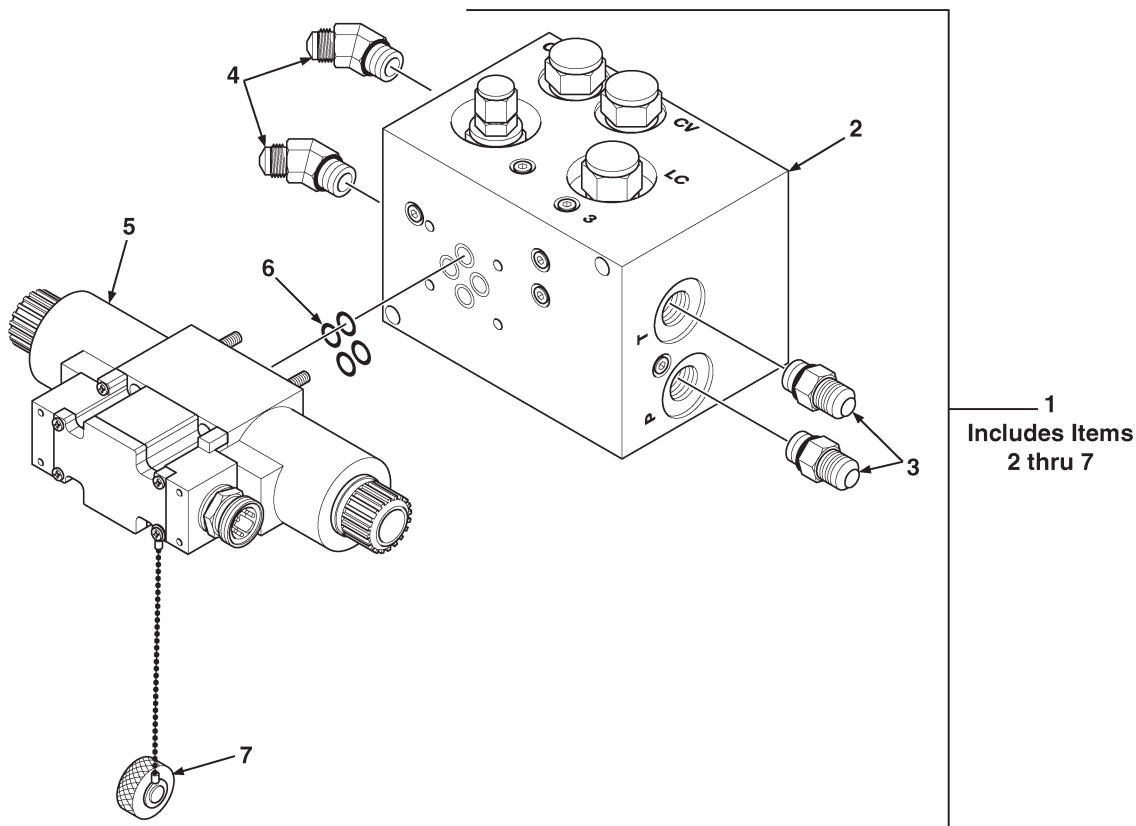
Figure 7. Hydraulic Valve Assembly ASN2095

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Item	Part No.	Qty	Description
1	000-166-497	1	Valve Assembly, Hydraulic Single, Includes Items 2 thru 14
2	000-166-516	2	O-Ring, Dash 120
3	000-166-515	1	O-Ring, Dash 112
4	000-166-499	1	Manifold Block, Primary, Includes Item 5
5	000-166-170	2	Adapter, Straight, 8MJ x 8MB
6	000-166-500	1	Manifold Block, Secondary, Includes Item 7 thru 10
7	000-166-225	2	Elbow, 90°, 6MJ x 6MB
8	000-166-409	1	Valve, Directional, Includes Item 9 & 10
9	000-166-514	4	O-Ring, Buna-N, 012, 90 Duro, 1/2" OD x 3/8" ID
10	001-001-060	1	Cap, Quick Disconnect, with Chain
11	000-150-171	4	Bolt, Hex Head, 7/16"-20UNF x 6-1/2" Long
12	000-155-043	8	Washer, Flat, 7/16" SAE
13	000-155-044	4	Washer, Lock, 7/16"
14	000-158-101	8	Nut, Hex, 7/16"-20UNF
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Figure 8. Hydraulic Valve Assembly BSN2096



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Figure 8. Hydraulic Valve Assembly BSN2096

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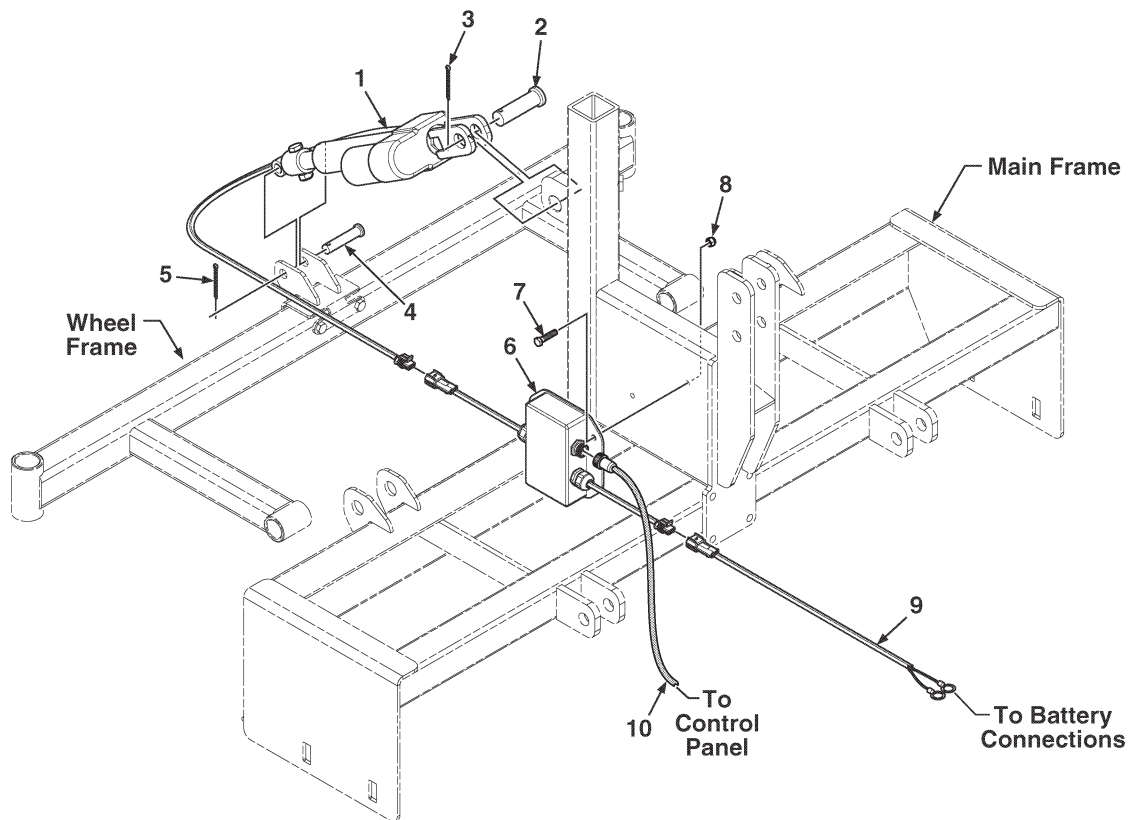
Item	Part No.	Qty	Description
1	000-166-408	1	Valve Assembly, Hydraulic Single, Includes Items 2 thru 7
2	NSS	1	Manifold Block, Single
3	000-166-170	2	Adapter, Straight, 8MJ x 8MB
4	000-166-175	2	Elbow, 45°, 6MJ x 6MB
5	000-166-409	1	Valve, Directional, Includes Item 6 & 7
6	000-166-514	4	O-Ring, Buna-N, 012, 90 Duro, 1/2" OD x 3/8" ID
7	001-001-060	1	Cap, Quick Disconnect, with Chain
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Figure 9. Electric Actuator, Control Interface Box and Related Parts



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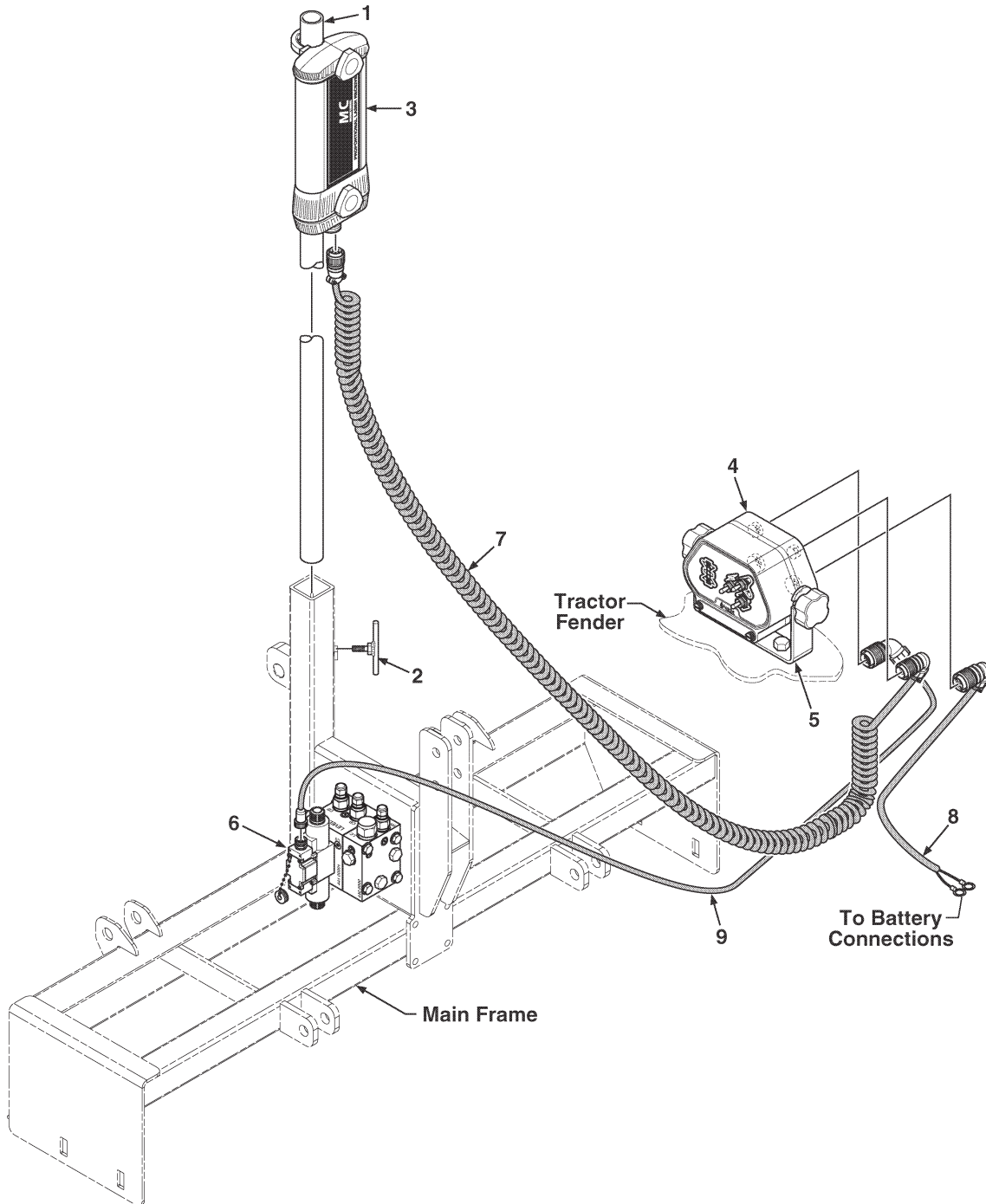
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Figure 9. Electric Actuator, Control Interface Box and Related Parts

Item	Part No.	Qty	Description
1	001-001-085	1	Actuator Assembly, Electric, See Breakdown Figure 21
2	000-161-106	1	Pin, 1" Dia. x 2-3/4" Long
3	000-161-031	1	Pin, Cotter, 3/16" Dia. x 1-1/2" Long
4	000-161-007	1	Pin, 5/8" Dia. x 2-1/2" Long
5	000-161-026	1	Pin, Cotter, 5/32" Dia. x 1" Long
6	000-200-191	1	Box, Control Interface
7	000-150-072	2	Bolt, Hex Head, 5/16"-18UNC x 3/4" Long
8	000-158-066	2	Nut, Hex, Nylon Lock, 5/16"-18UNC
9	000-200-207	1	Cable, Power, Interface Control Box
10	000-200-151	1	Cable, Solenoid, 90°, 3-Wire, Quick Disconnect, 12" Long, Apache CB26/Spectra CB25
	000-200-209	1	Cable, Solenoid, Quick Disconnect, 12' Long, Leica MCP700
	000-200-144	1	Cable, Solenoid, Quick Disconnect, 12' Long, MEI/AGL
	000-200-171	1	Cable, Power/Remote/Solenoid, Topcon System Five & LS-B4
AR - As Required NSS - Not Serviced Separately ASN - After Serial No. BSN - Before Serial No. LP - Local Purchase			

Compact Laser Grading Box PARTS LIST

**Figure 10. Laser Controls and Related Parts -
Apache/Spectra ASN2095**



Compact Laser Grading Box PARTS LIST



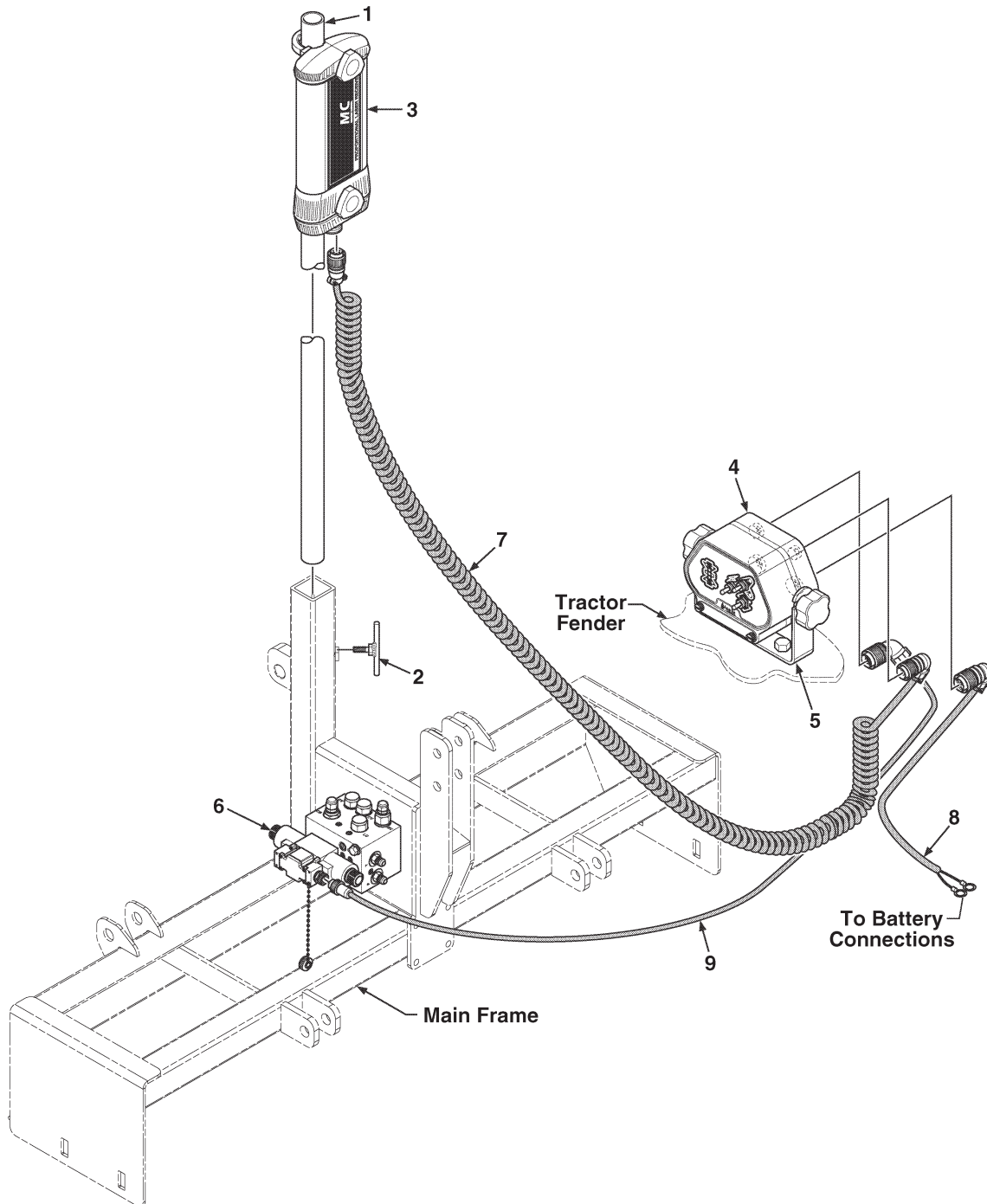
**Figure 10. Laser Controls and Related Parts -
Apache/Spectra ASN2095**

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Item	Part No.	Qty	Description
1	001-001-105	1	Pole, Mast, Sectional, 1-1/2" Dia. x 84" Long
2	001-001-053	2	Handle, Tee
3	000-200-093	1	Receiver, Bullseye 5MC
	000-200-215	1	Receiver, Spectra MC50
4	000-200-092	1	Panel, Control, Apache CB26, See Breakdown Figure 12
	000-200-211	1	Panel, Control, Spectra CB25, See Breakdown Figure 12
5	001-001-075	1	Bracket, Control Panel
6	000-166-497	1	Valve Assembly, Hydraulic Single, See Breakdown Figure 7
7	000-200-099	1	Cable, Receiver, Coiled, 15' Long
8	000-200-097	1	Cable, Power, 2-Wire, 20' Long
9	000-200-151	1	Cable, Solenoid, 3-Wire, Quick Disconnect, 12" Long
AR - As Required NSS - Not Serviced Separately ASN - After Serial No. BSN - Before Serial No. LP - Local Purchase			

Compact Laser Grading Box PARTS LIST

**Figure 11. Laser Controls and Related Parts -
Apache/Spectra BSN2096**



Compact Laser Grading Box PARTS LIST



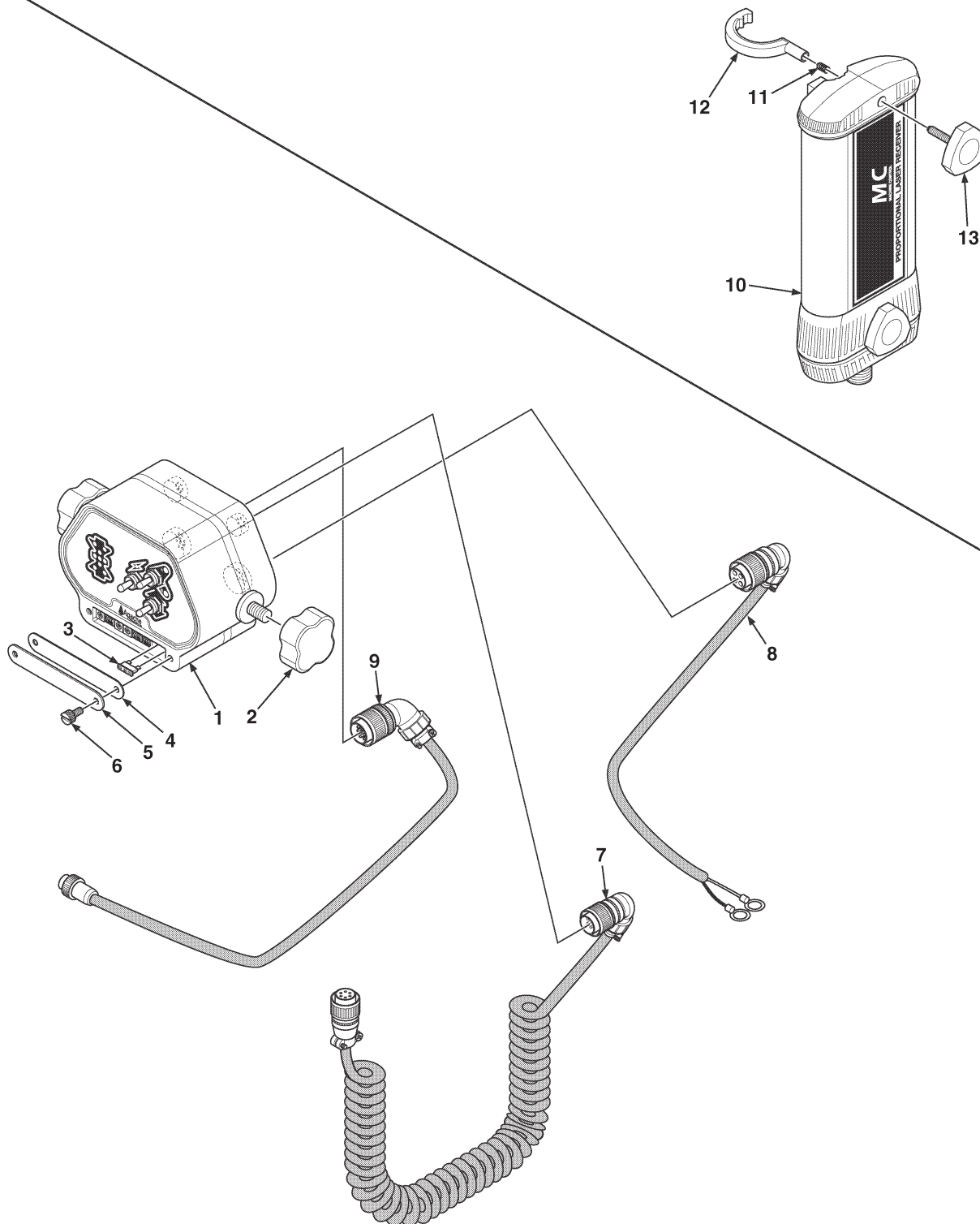
**Figure 11. Laser Controls and Related Parts -
Apache/Spectra BSN2096**

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Item	Part No.	Qty	Description
1	001-001-105	1	Pole, Mast, Sectional, 1-1/2" Dia. x 84" Long
2	001-001-053	2	Handle, Tee
3	000-200-093	1	Receiver, Bullseye 5MC
	000-200-215	1	Receiver, Spectra MC50
4	000-200-092	1	Panel, Control, Apache CB26, See Breakdown Figure 12
	000-200-211	1	Panel, Control, Spectra CB25, See Breakdown Figure 12
5	001-001-075	1	Bracket, Control Panel
6	000-166-408	1	Valve Assembly, Hydraulic Single, See Breakdown Figure 8
7	000-200-099	1	Cable, Receiver, Coiled, 15' Long
8	000-200-097	1	Cable, Power, 2-Wire, 20' Long
9	000-200-151	1	Cable, Solenoid, 3-Wire, Quick Disconnect, 12" Long
AR - As Required NSS - Not Serviced Separately ASN - After Serial No. BSN - Before Serial No. LP - Local Purchase			

Compact Laser Grading Box PARTS LIST

**Figure 12. Control Panel, Receiver, Cables -
Apache/Spectra**



Compact Laser Grading Box PARTS LIST



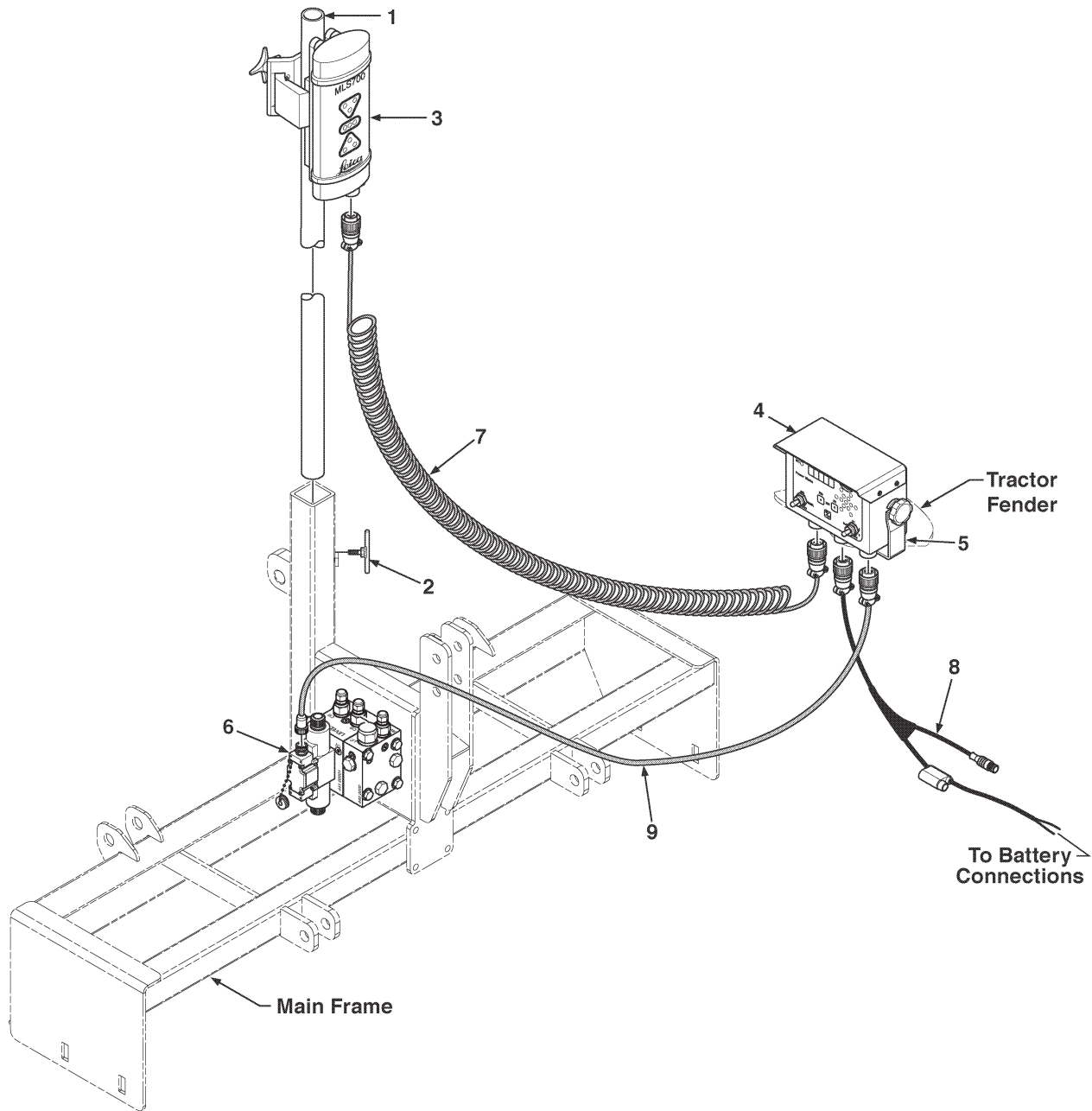
**Figure 12. Control Panel, Receiver, Cables -
Apache/Spectra**

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Item	Part No.	Qty	Description
1	000-200-092	1	Panel, Control, Single, Includes Items 2 thru 6
	000-200-211	1	Panel, Control, Spectra CB25, 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, Receiver, Coiled, 15' Long
8	000-200-097	1	Cable, Power, 2-Wire, 20' Long
9	000-200-151	1	Cable, Solenoid, 90° 3-Wire, Quick Disconnect, 12' Long, Apache CB26/Spectra CB25
10	000-200-093	1	Receiver, Bullseye 5MC, Includes Items 11 thru 13
	000-200-215	1	Receiver, Spectra MC50, 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
AR - As Required NSS - Not Serviced Separately ASN - After Serial No. BSN - Before Serial No. LP - Local Purchase			

Compact Laser Grading Box PARTS LIST

**Figure 13. Laser Controls and Related Parts
- Leica MCP700 ASN2095**



Compact Laser Grading Box PARTS LIST



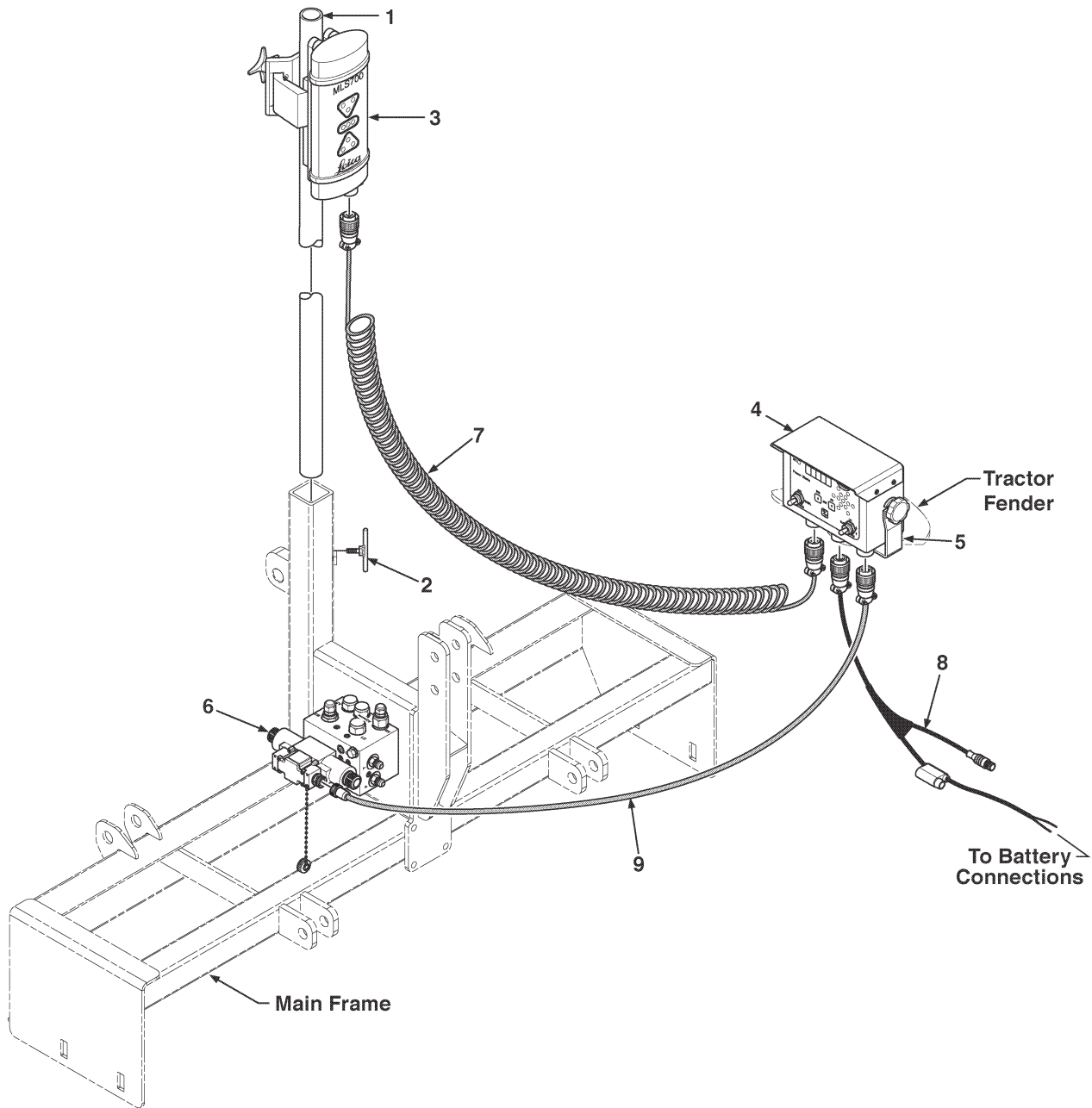
**Figure 13. Laser Controls and Related Parts -
Leica MCP700 ASN2095**

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Item	Part No.	Qty	Description
1	001-001-105	1	Pole, Mast, Sectional, 1-1/2" Dia. x 84" Long
2	001-001-053	1	Handle, Tee
3	000-200-200	1	Receiver, Laser, 360°
4	000-200-199	1	Panel, Control, See Breakdown Figure 15
5	001-001-114	1	Bracket, Mounting, Control Panel
6	000-166-497	1	Valve Assembly, Hydraulic Single, See Breakdown, Figure 7
7	000-200-203	1	Cable, Receiver, Coiled, 3-Wire, 9' Long
8	000-200-201	1	Cable, Power, 2-Wire, 26' Long
9	000-200-209	1	Cable, Solenoid, 5-Wire, Quick Disconnect, 12' Long
AR - As Required NSS - Not Serviced Separately ASN - After Serial No. BSN - Before Serial No. LP - Local Purchase			

Compact Laser Grading Box PARTS LIST

**Figure 14. Laser Controls and Related Parts
- Leica MCP700 BSN2096**



Compact Laser Grading Box PARTS LIST



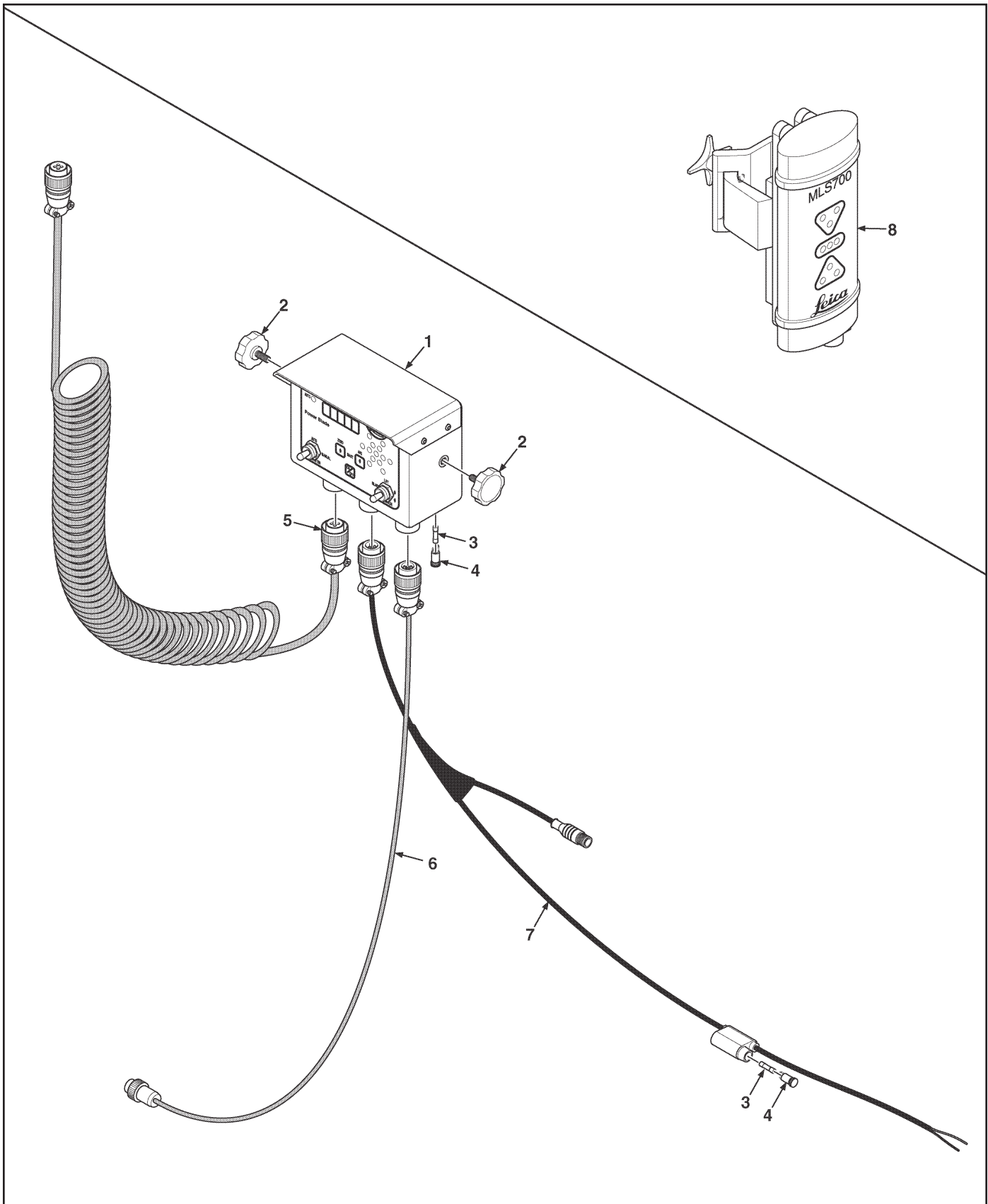
**Figure 14. Laser Controls and Related Parts -
Leica MCP700 BSN2096**

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Item	Part No.	Qty	Description
1	001-001-105	1	Pole, Mast, Sectional, 1-1/2" Dia. x 84" Long
2	001-001-053	1	Handle, Tee
3	000-200-200	1	Receiver, Laser, 360°
4	000-200-199	1	Panel, Control, See Breakdown Figure 15
5	001-001-114	1	Bracket, Mounting, Control Panel
6	000-166-408	1	Valve Assembly, Hydraulic Single, See Breakdown, Figure 8
7	000-200-203	1	Cable, Receiver, Coiled, 3-Wire, 9' Long
8	000-200-201	1	Cable, Power, 2-Wire, 26' Long
9	000-200-209	1	Cable, Solenoid, 5-Wire, Quick Disconnect, 12' Long
AR - As Required NSS - Not Serviced Separately ASN - After Serial No. BSN - Before Serial No. LP - Local Purchase			

Compact Laser Grading Box PARTS LIST

Figure 15. Control Panel, Receiver, Cables -
Leica MCP700



Compact Laser Grading Box PARTS LIST



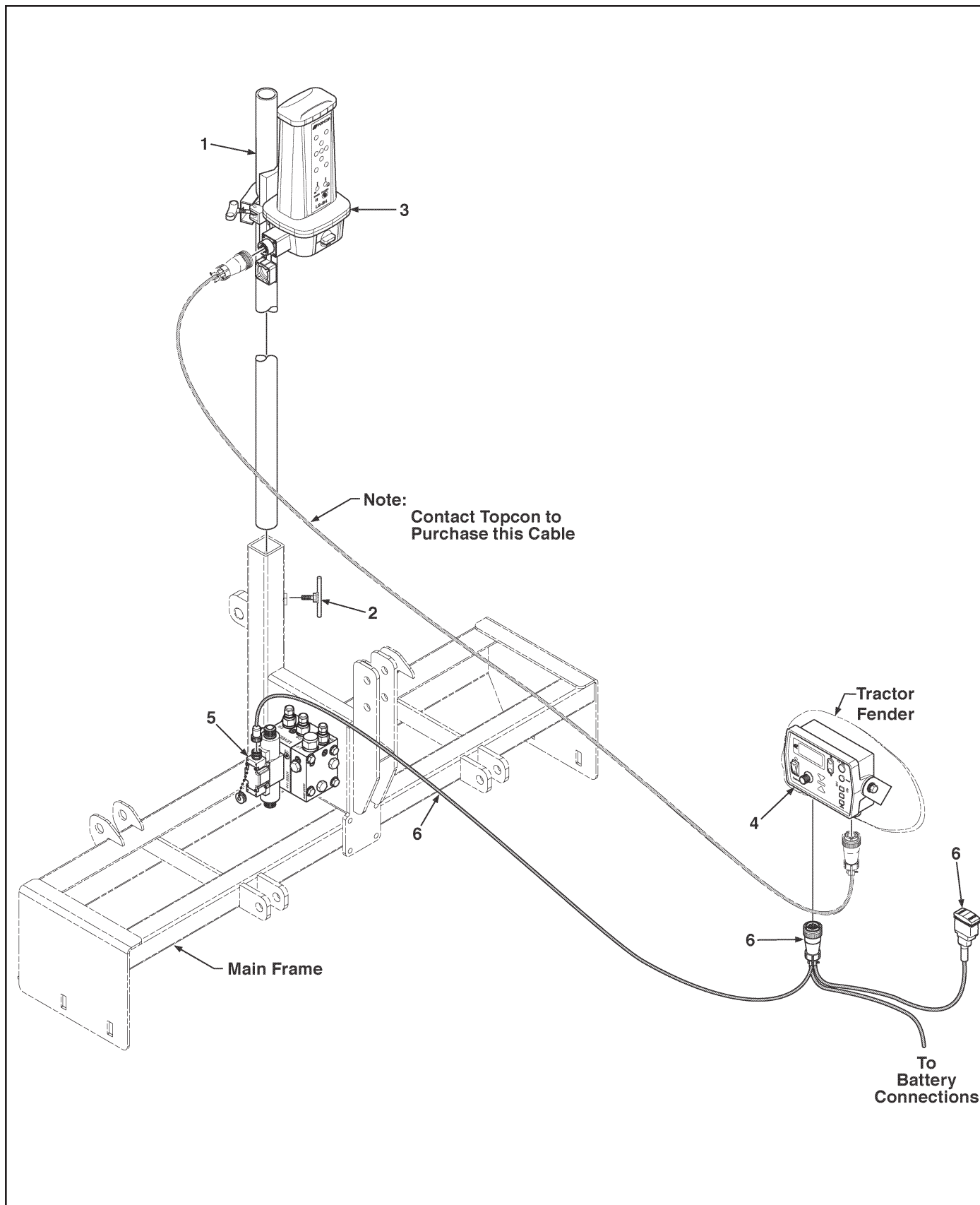
**Figure 15. Control Panel, Receiver, Cables -
Leica MCP700**

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Item	Part No.	Qty	Description
1	000-200-199	1	Panel, Control, Includes Items 2 thru 4
2	000-200-276	2	Knob, Mounting Bracket, Control Panel
3	000-200-277	2	Fuse, 10A, Control Panel
4	000-200-278	2	Holder, Fuse, Control
5	000-200-203	1	Cable, Receiver, Coiled, 3-Wire, 9' Long
6	000-200-209	1	Cable, Solenoid, 5-Wire, Quick Disconnect, 12' Long
7	000-200-201	1	Cable, Power, 2-Wire, 26' Long
8	000-200-200	1	Receiver, Laser 360°
AR - As Required NSS - Not Serviced Separately ASN - After Serial No. BSN - Before Serial No. LP - Local Purchase			

Compact Laser Grading Box PARTS LIST

**Figure 16. Laser Controls and Related Parts - Topcon
System Five and LS-B4 ASN2095**



Compact Laser Grading Box PARTS LIST



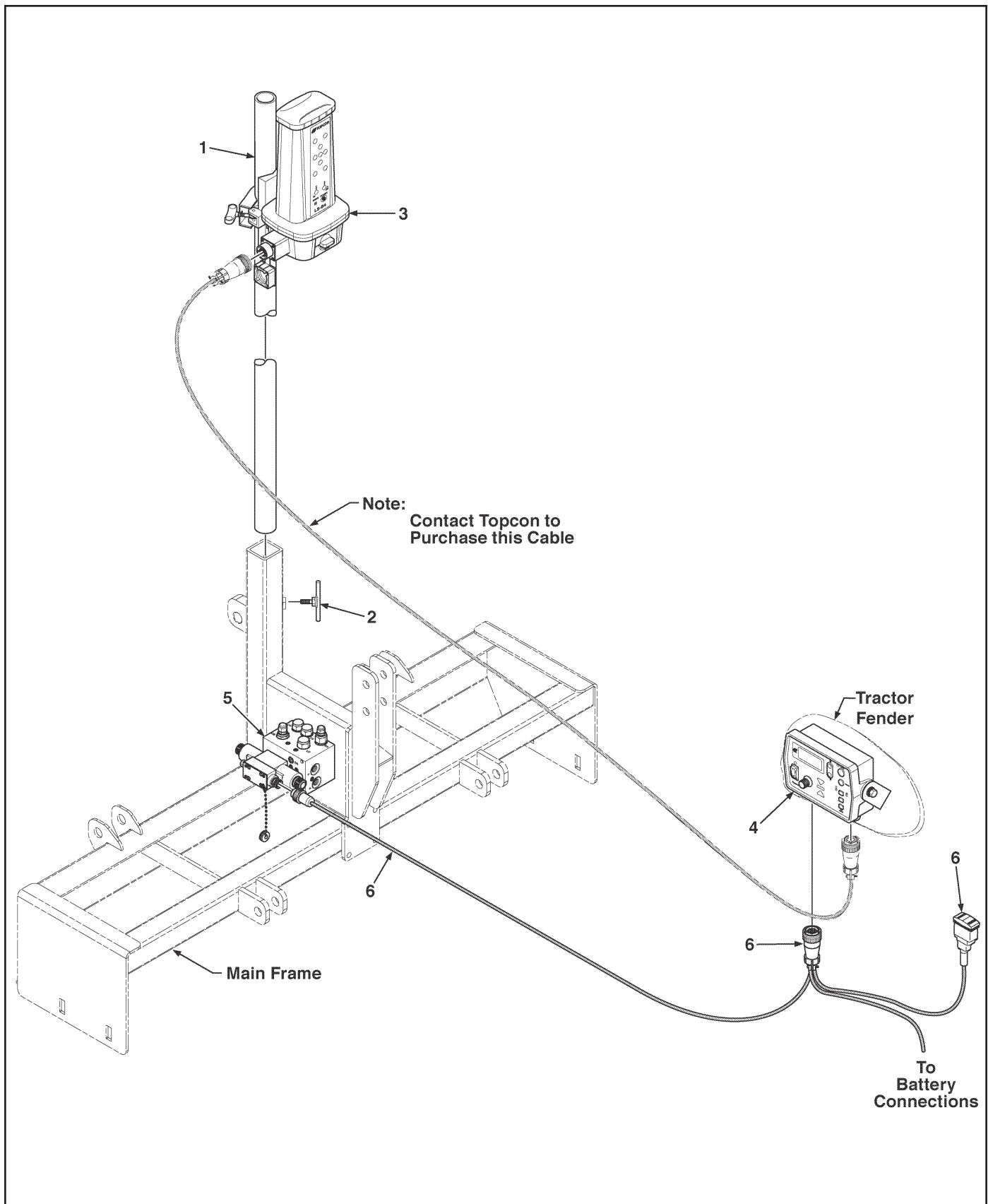
**Figure 16. Laser Controls and Related Parts - Topcon
System Five and LS-B4 ASN2095**

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Item	Part No.	Qty	Description
1	001-001-105	1	Pole, Mast, Sectional, 1-1/2" Dia. x 84" Long
2	001-001-053	1	Handle, Tee
3	000-200-070	1	Receiver, Laser, 360°, LS-B4
4	000-200-069	1	Panel, Control, System Five
5	000-166-497	1	Valve Assembly, Hydraulic Single, See Breakdown Figure 7
6	000-200-171	1	Cable, Power/Remote/Solenoid, Topcon System Five & LS-B4
AR - As Required NSS - Not Serviced Separately ASN - After Serial No. BSN - Before Serial No. LP - Local Purchase			

Compact Laser Grading Box PARTS LIST

**Figure 17. Laser Controls and Related Parts - Topcon
System Five and LS-B4 BSN2096**



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**Figure 17. Laser Controls and Related Parts - Topcon
System Five and LS-B4 BSN2096**

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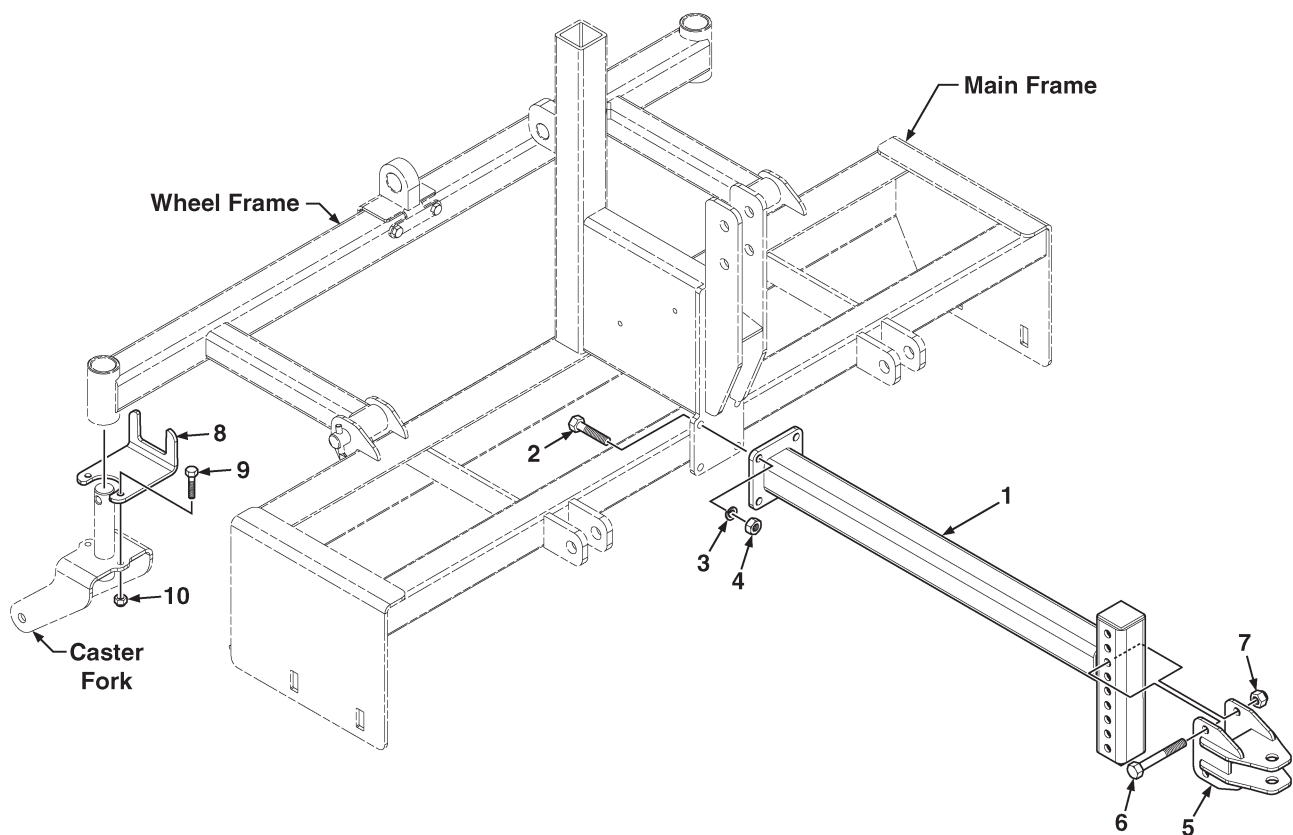
Item	Part No.	Qty	Description
1	001-001-105	1	Pole, Mast, Sectional, 1-1/2" Dia. x 84" Long
2	001-001-053	1	Handle, Tee
3	000-200-070	1	Receiver, Laser, 360°, LS-B4
4	000-200-069	1	Panel, Control, System Five
5	000-166-408	1	Valve Assembly, Hydraulic Single, See Breakdown Figure 8
6	000-200-171	1	Cable, Power/Remote/Solenoid, Topcon System Five & LS-B4
AR - As Required NSS - Not Serviced Separately ASN - After Serial No. BSN - Before Serial No. LP - Local Purchase			



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Figure 18. Drawbar, with Wheel Locks



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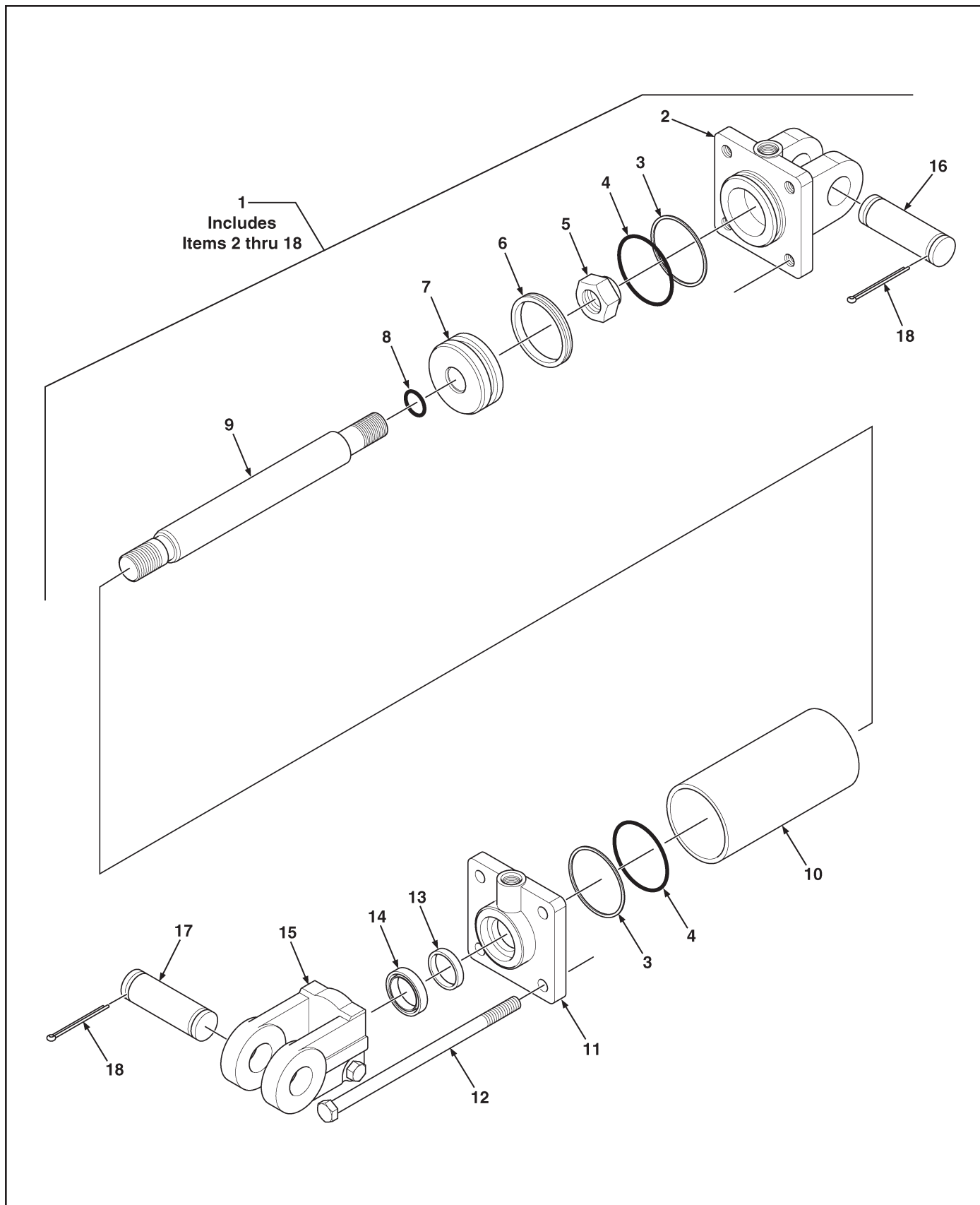
Figure 18. Drawbar, with Wheel Locks

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Item	Part No.	Qty	Description
1	315-586-000	1	Drawbar Weldment
2	000-150-174	4	Bolt, Hex Head, 1/2"-13UNC x 1-1/4" Long
3	000-155-058	4	Washer, Lock, 1/2"
4	000-158-109	4	Nut, Hex, 1/2"-13UNC
5	315-587-000	1	Hitch, Clevis
6	000-150-213	2	Bolt, Hex Head, 1/2"-13UNC x 4" Long
7	000-158-113	2	Nut, Hex, Nylon Lock, 1/2"-13UNC
8	315-582-001	2	Plate, Wheel Lock
9	000-150-127	4	Bolt, Hex Head, 3/8"-16UNC x 1-1/4" Long
10	000-158-084	4	Nut, Hex, Nylon Lock, 3/8"-16UNC
AR - As Required NSS - Not Serviced Separately ASN - After Serial No. BSN - Before Serial No. LP - Local Purchase			

Compact Laser Grading Box PARTS LIST

**Figure 19. Cylinder Assembly, 3" Bore x 6" Stroke
ASN2100**



Compact Laser Grading Box PARTS LIST

Figure 19. Cylinder Assembly, 3" Bore x 6" Stroke ASN2100

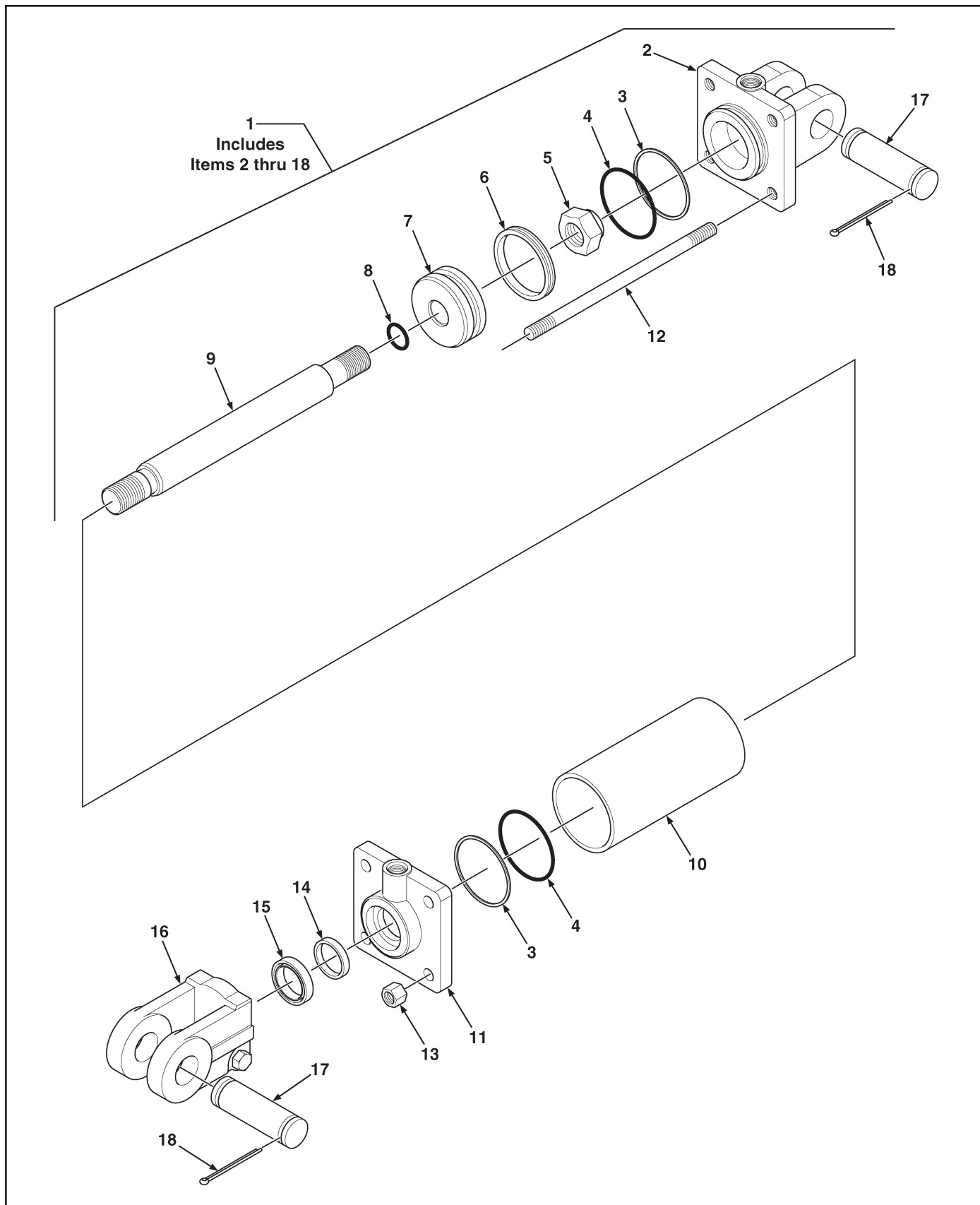


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Item	Part No.	Qty	Description
1	000-166-537	1	Cylinder Assembly, 3" Bore x 6" Stroke, Includes Items 2 thru 18
2	000-166-322	1	Clevis Assembly, Butt
3	000-166-323	2	Ring, Back Up
4	NSS	2	O-Ring
5	000-158-195	1	Nut, Lock
6	000-166-325	1	Seal, Crown
7	000-166-326	1	Piston
8	NSS	1	O-Ring
9	000-166-656	1	Rod Assembly
10	000-166-329	1	Tube
11	000-166-330	1	Gland
12	000-166-331	4	Tie Rod Assembly
13	000-166-332	1	Seal, U-Cup
14	000-166-333	1	Seal, Wiper
15	000-166-658	1	Clevis Assembly
16	000-161-068	1	Pin, Cylinder, 1" Dia. x 3-3/8" Long
17	000-161-162	1	Pin, Cylinder, 1" Dia. x 4" Long
18	000-161-137	4	Pin, Cotter, 3/16" Dia. x 1-3/4" Long
	000-166-659	AR	Kit, Cylinder Repair Includes: Items 3, 4, 6, 8, 13 & 14
AR - As Required NSS - Not Serviced Separately ASN - After Serial No. BSN - Before Serial No. LP - Local Purchase			

Compact Laser Grading Box PARTS LIST

**Figure 20. Cylinder Assembly, 3" Bore x 6" Stroke
BSN2099**



Compact Laser Grading Box PARTS LIST

Figure 20. Cylinder Assembly, 3" Bore x 6" Stroke BSN2099

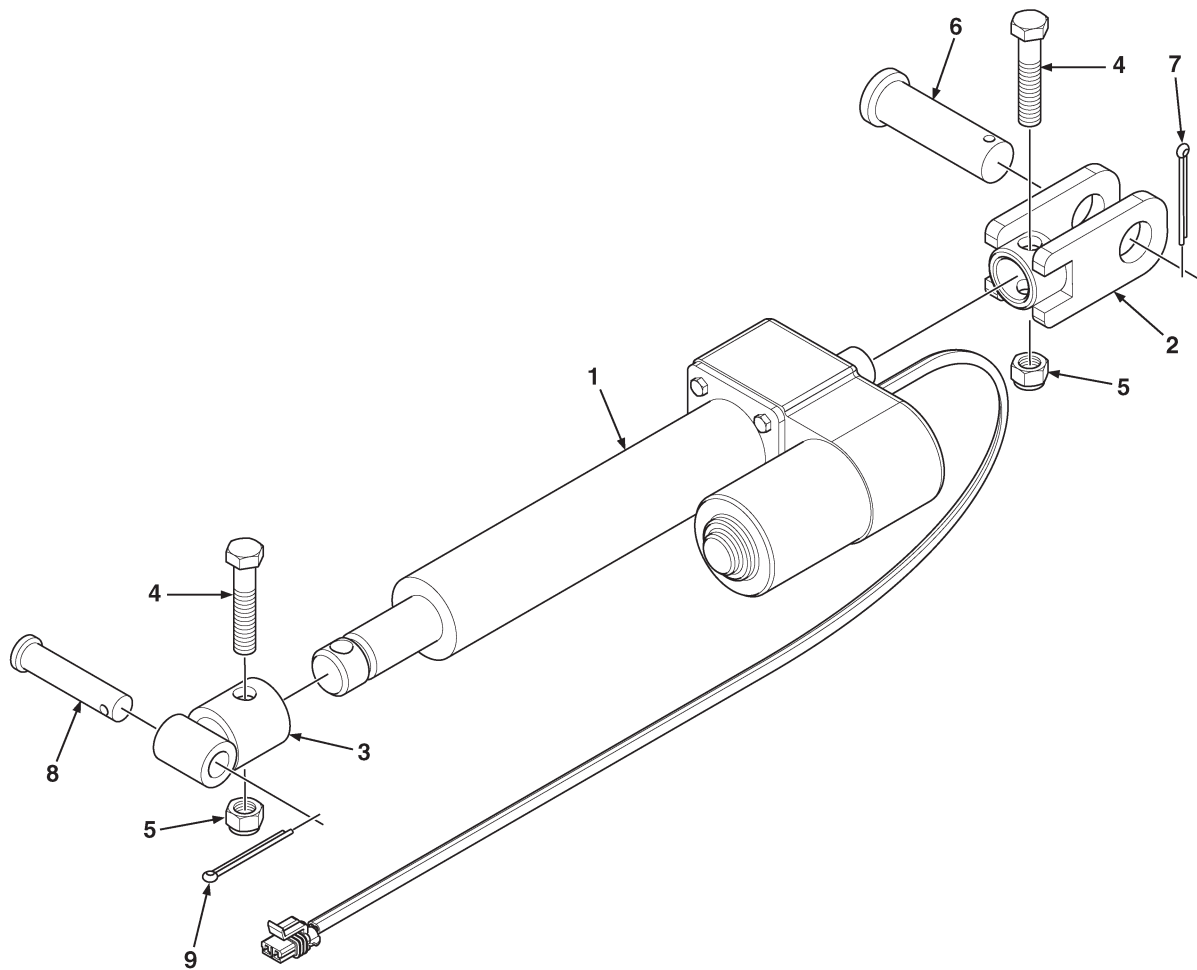


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Item	Part No.	Qty	Description
1	000-166-181	1	Cylinder Assembly, 3" Bore x 6" Stroke, Includes Items 2 thru 18
2	000-166-322	1	Clevis Assembly, Butt
3	000-166-323	2	Ring, Back Up
4	NSS	2	O-Ring
5	000-158-195	1	Nut, Lock
6	000-166-325	1	Seal, Crown
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	000-166-332	1	Seal, U-Cup
15	000-166-333	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	000-161-137	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			

Compact Laser Grading Box PARTS LIST

Figure 21. Electric Actuator Assembly and Related Parts



Compact Laser Grading Box PARTS LIST



Figure 21. Electric Actuator Assembly and Related Parts

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Item	Part No.	Qty	Description
1	001-001-085	1	Actuator Assembly, Electric,
2	315-606-000	1	Adapter, Main Frame, Electric Actuator
3	315-605-000	1	Adapter, Wheel Frame, Electric Actuator
4	000-150-193	2	Bolt, Hex Head, 1/2"-13UNC x 2-1/2" Long
5	000-158-113	2	Nut, Hex, Nylon Lock, 1/2"-13UNC
6	000-161-106	1	Pin, 1" Dia. x 2-3/4" Long
7	000-161-031	1	Pin, Cotter, 3/16" Dia. x 1-1/2" Long
8	000-161-007	1	Pin, 5/8" Dia. x 2-1/2" Long
9	000-161-026	1	Pin, Cotter, 5/32" Dia. x 1" Long
AR - As Required NSS - Not Serviced Separately ASN - After Serial No. BSN - Before Serial No. LP - Local Purchase			



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Figure 22. Decals



1



2



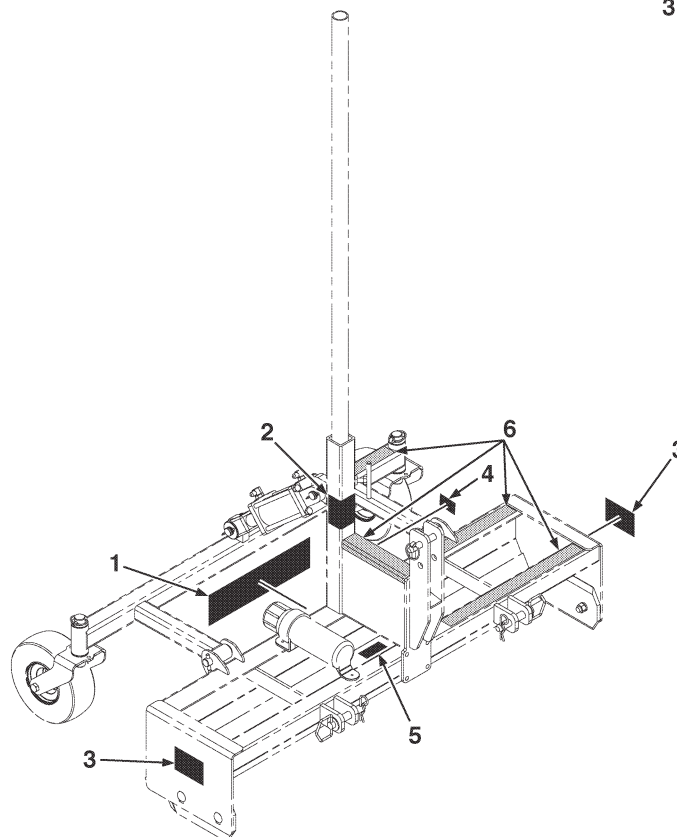
3



4



5



Compact Laser Grading Box PARTS LIST

Figure 22. Decals



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Item	Part No.	Qty	Description
1	000-186-045	1	Decal, Level Best Logo
2	000-186-041	1	Decal, Warning, High-Pressure (Hydraulic Application Only)
3	000-186-094	2	Decal, Warning, This Machine Starts & Stops Automatically
4	000-186-092	2	Decal, Made in U.S.A.
5	000-186-035	1	Plate, Model/Serial, Adhesive Back
6	LP	AR	Skid Grip
AR - As Required NSS - Not Serviced Separately ASN - After Serial No. BSN - Before Serial No. LP - Local Purchase			