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8'6" and 9'6" HDV™ Snowplow

Mild Steel Blades 77770, 77780
Stainless Steel Blades 77775, 77785
Big Box Assembly 77870-1, 77870-3

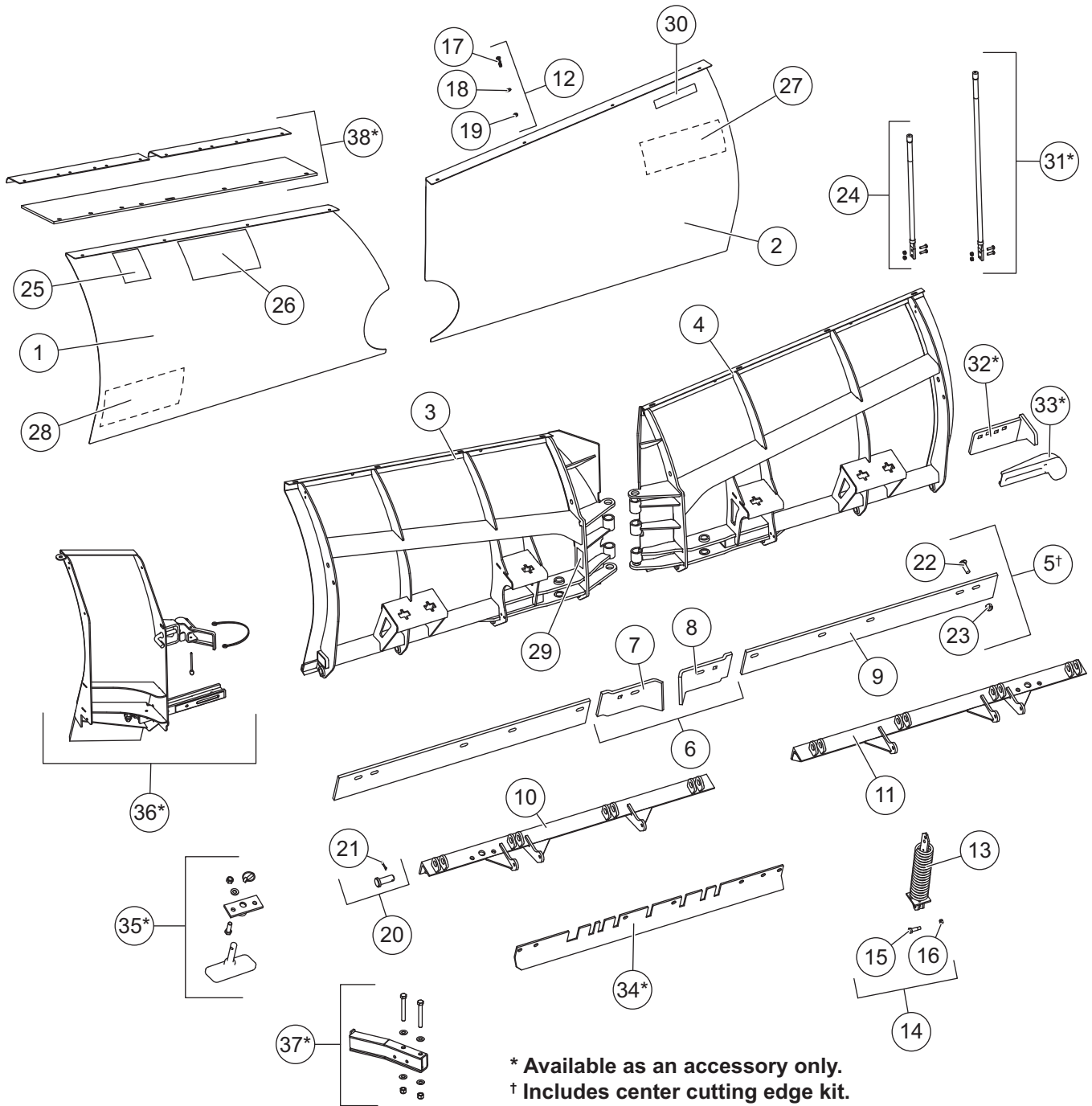
Parts List



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Blade Components – 9'6" Shown



HDV™ BLADE 77770/77775/77780/77785

77770/77775/77780/77785 HDV Blade					
Item Description		Part Number			
		8'6" Blade		9'6" Blade	
		MS	SS	MS	SS
1	Moldboard Kit w/Fasteners & Labels – DS	85087	85088	85089	85090
2	Moldboard Kit w/Fasteners & Labels – PS	85091	85092	85093	85094
3	Frame, Base Angle & Spring Assembly – DS	85117		85118	
4	Frame, Base Angle & Spring Assembly – PS	85119		85120	
5 [†]	Cutting Edge Kit, Complete (3/8)	84850		–	
	Cutting Edge Kit, Complete (1/2)	84851		84852	
	Cutting Edge Kit, Complete (5/8)	85365		85366	
6	Center Cutting Edge Kit	44894-1			
	Center Cutting Edge Kit (5/8)	85357*			
7	Center Cutting Edge – DS	44891-1			
	Center Cutting Edge (5/8) – DS	85351*			
8	Center Cutting Edge – PS	44890-1			
	Center Cutting Edge (5/8) – PS	85352*			
9	Cutting Edge – One Side (3/8)	85126		–	
	Cutting Edge – One Side (1/2)	85127		85128	
	Cutting Edge – One Side (5/8)	85363		85364	
10	Base Angle – DS	43128		43130	
11	Base Angle – PS	43129		43131	
12	Moldboard Fasteners Kit (set of 8)	43890	43289	43890	43289
MS = Mild Steel		SS = Stainless Steel			

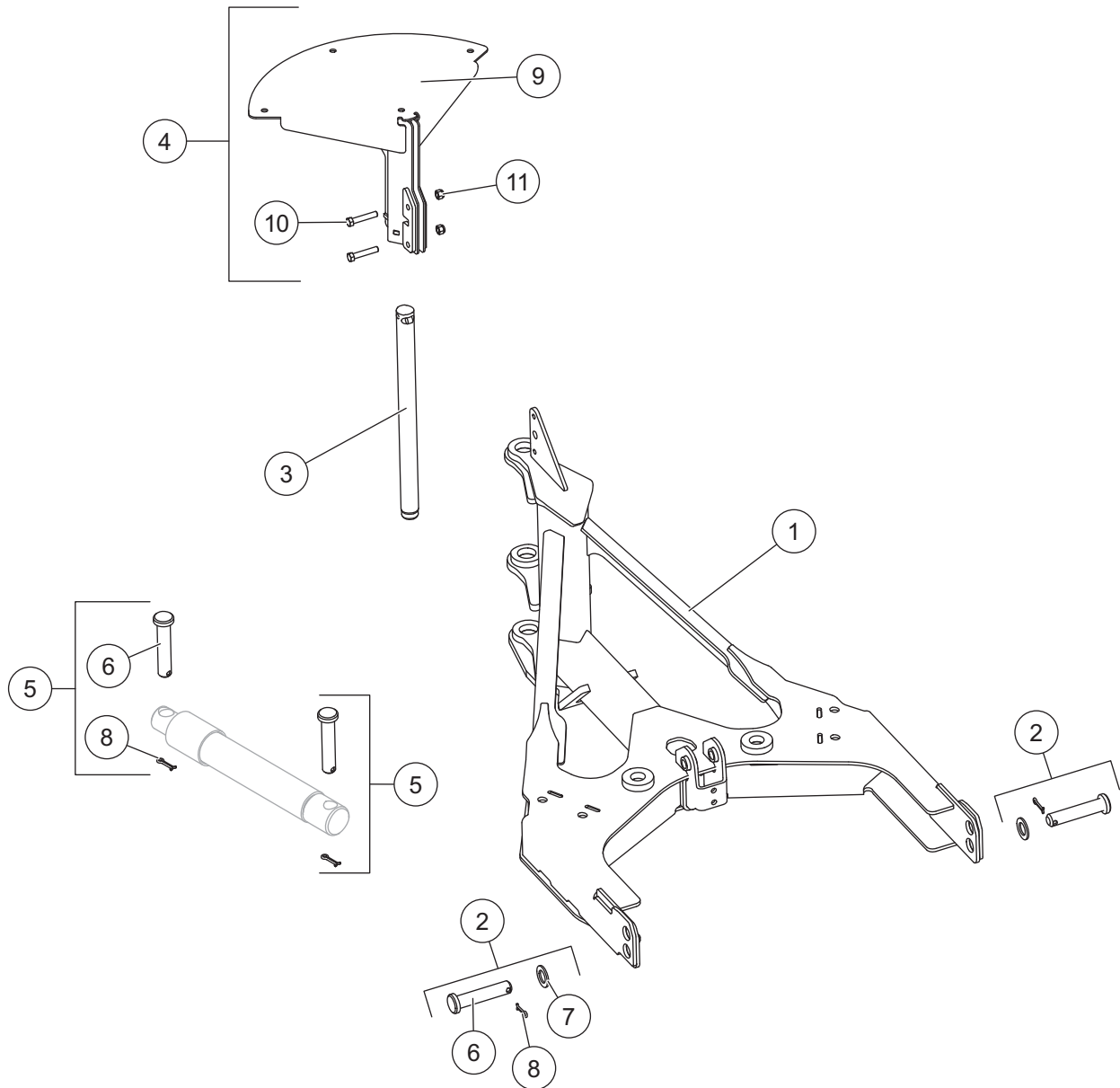
† Includes center cutting edge kit.

Blade Pins, Fasteners, Labels, Springs					
Item	Part	Description	Item	Part	Description
13	21452	Removable Spring Assembly	25	59900	Label – Warning/Caution, Snowplows
14	83624	Spring Assembly Bolt Kit	26	52593	Label – Attach/Detach, Automatixx®
15		7/16-14 x 1/2 x 1-5/8 Shoulder Bolt	27	85113	Label – Logo, SnowEx® – MS
16		7/16-14 Hex Locknut GB		85115	Label – Logo, SnowEx – SS
17		3/8-16 x 1 Button Cap Screw	28	85112	Label – Logo, HDV – MS
18		3/8 Hardened Flat Washer		85114	Label – Logo, HDV – SS
19		3/8-16 Hex Locknut GB	29	29256	Label – Warning, Foot Crush Hazard
20	85082	1 x 2-3/4 Clevis Pin w/Cotter	ns	85084	Label Kit – MS Blade (items 25–29)
21		1/4 x 1-3/4 Cotter Pin		85099	Label Kit – SS Blade (items 25–29)
22		5/8-11 x 2 Carriage Bolt G5	30		Label – Blade Size & Serial Number
23		5/8-11 Hex Locknut GB	ns	44763	Bolt Bag – Cutting Edge Kits (1 side, 5 sets of fasteners)
24	84525	24" Poly Blade Guide Kit (set of 2)			
Blade Accessories					
31*	84477	36" Poly Blade Guide Kit (set of 2)	36*	43510-1	Blade Wing Extensions Kit
32*	43885	Curb Guard Kit, Welded – PS & DS	37*	43082-1	Blade Stop Kit (set of 2)
33*	44404	Curb Guard Kit, Cast (single)	38*	85108	Deflector Kit (universal) 10"
34*	44283-3	Back Drag Edge Kit, 9'6" Blade	ns	85109*	Deflector Kit (universal) 18"
ns	44282-3*	Back Drag Edge Kit, 8'6" Blade	ns	43620*	Bolt Bag – Rubber Deflector
35*	43088	Shoe Kit (set of 2)			
MS = Mild Steel		SS = Stainless Steel		G = Grade	
				ns = not shown	

* Accessory only.

T-FRAME ASSEMBLY

T-Frame, Center Snow Control, and Pins

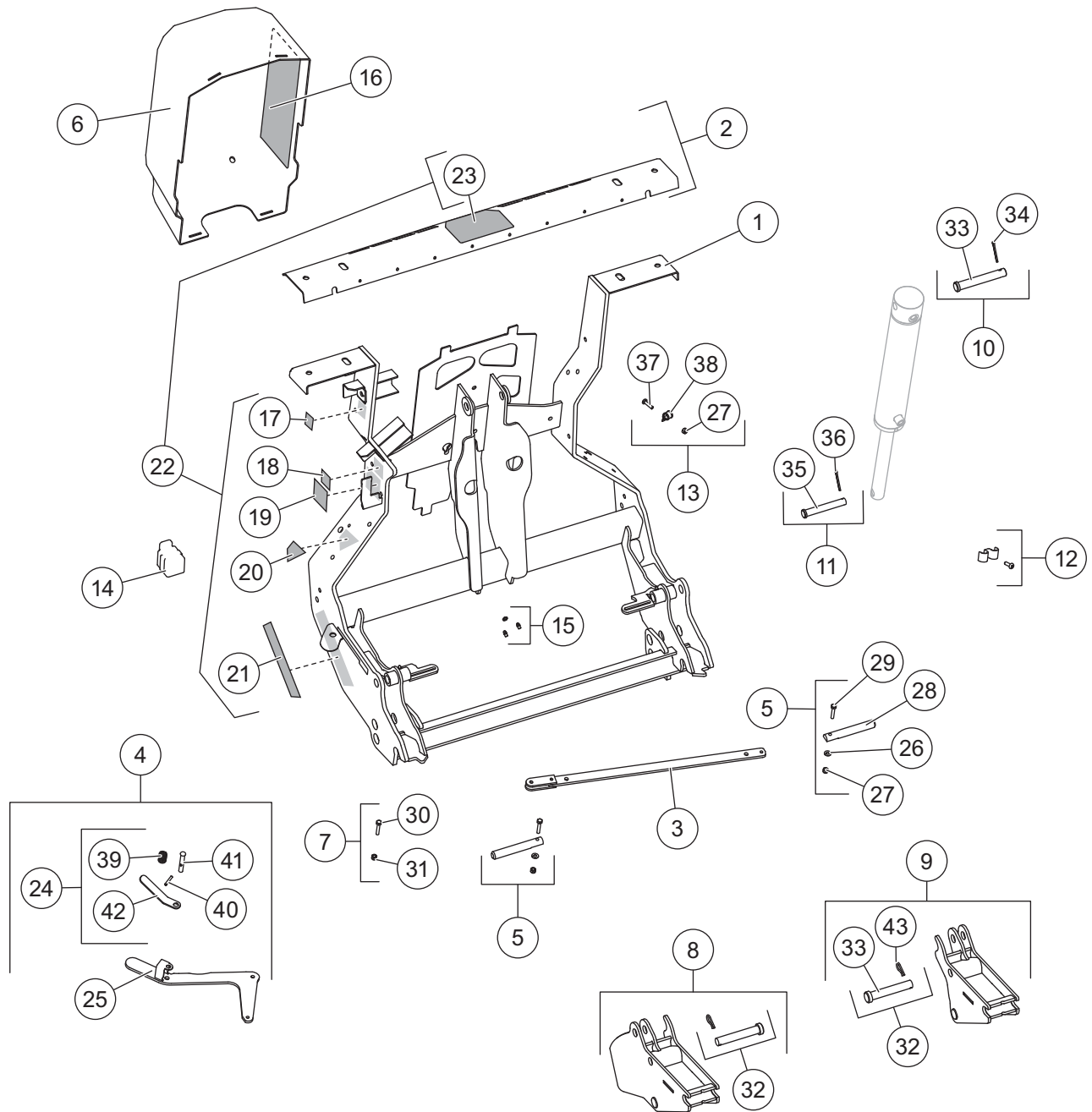


T-FRAME ASSEMBLY

T-Frame Components							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	85050	1	T-Frame HDV™	4	43118-1	1	Center Snow Control Kit
2	84623	2	Clevis Pin Kit	5	85125	4	Clevis Pin Kit
3	49844	1	Main Pivot Pin				
Item 2				84623 Clevis Pin Kit			
6		1	1 x 4-3/4 Clevis Pin	8		1	1/4 x 1-1/2 Cotter Pin
7		1	1" Flat Washer Special				
Item 4				43118-1 Center Snow Control Kit			
9		1	Snow Control	11	91333	2	3/8-16 Hex Locknut GB
10	90043	2	3/8-16 x 2 Hex Cap Screw G5				
Item 5				85125 Clevis Pin Kit			
6		1	1 x 4-3/4 Clevis Pin	8	90601	1	1/4 x 1-1/2 Cotter Pin
G = Grade							

HEADGEAR ASSEMBLY

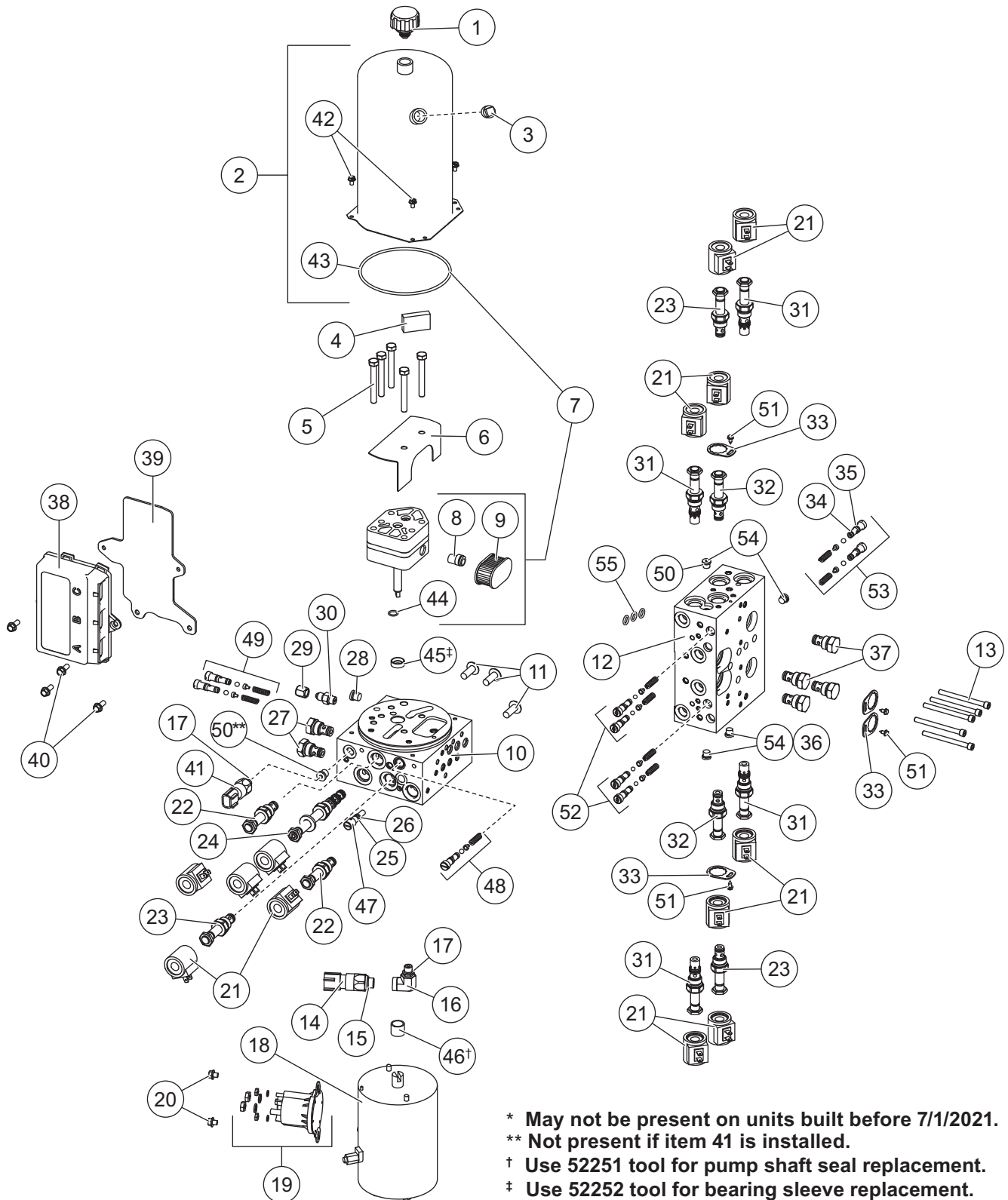
Headgear Components



* Refer to the HDV Snowplow Installation Instructions to confirm when tall receivers are required.

HYDRAULIC AND ELECTRICAL COMPONENTS

Hydraulic Unit



HYDRAULIC AND ELECTRICAL COMPONENTS

52651 Hydraulic Unit – V-Plow							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	48278	1	Breather	21	52294	13	Coil
2	52631	1	Reservoir Kit	22	84936	2	Valve, 2-Way NC w/Rev Flow
3	92079	1	Plug, Square 3/8 NPTF	23	49690	3	Valve, 2-Way w/Nut
4	73897	1	Magnet	24	84937	1	Valve, 4-Way, 3-Position
5	90080	5	5/16-18 x 2-1/2 Hex Cap Screw G5	25	48239	1	O-Ring -106
6	84889	1	Baffle Plate	26	48240	1	Back-Up Ring -106
7	49487	1	Hydraulic Pump Kit	27	84934	2	Check Valve
8	10887	1	Pump Inlet Fitting	28	44344	2	Plug, Hex Socket –4 M ORB
9	48281	1	Filter	29	52642	1	Cap –4 F JIC
ns	52252	1	Seal Repair Tool Kit w/Seal	30	B60004	1	Connector, Short –4 M JIC/ –4 M ORB
10	52579	1	Primary Manifold Assy w/o Valves HD	31	49489	4	Valve, 2-Way w/Check
11	83641	3	3/8-16 x 1-1/4 Serrated Flange Hex Cap Screw	32	52587	2	Valve, SF08-2015 w/Nut
12	52582	1	Secondary Manifold Assy w/o Valves	33	44369	4	Valve Lock Ring w/Screw
13	29081	5	1/4-20 x 3 Socket Cap Screw	34	55371	8	O-Ring -008
14	84841	1	Pressure Switch	35	25731	8	O-Ring -010
15	56569	1	O-Ring -906	36	26784	4	O-Ring -903
16	52295	1	Elbow, 90° –4 M ORB/–6 F ORB	37	48287	4	Check Valve
17	44343	4	O-Ring -904	38	52292-1	1	Plow Control Module
ns	52251	1	Bearing Repair Tool Kit w/Bearing	39	52293-1	1	Module Plate
18	52281	1	Motor	40	44355	4	1/4-20 x 5/8 Hex Washer-Head Thread-Rolling Screw
19	52578	1	Motor Relay Kit, FLEET FLEX System	41	83859	1	Pressure Switch (Scrape Maxx™ down-force feature)
20	29099	2	1/4-20 x 1/4 Hex Washer-Head Thread-Rolling Screw				
O-Ring Service Kits							
–	52298-1	–	O-Ring Kit	–	48310	–	Seal Kit, 2-Way Valves
–	48309	–	Seal Kit, 3-Way & 4-Way Valves				
Item 10 52579 Primary Manifold Assembly w/o Valves HD							
42	66607	4	#10-24 x 5/16 Machine Screw	47	48517	1	Quill
43	66519	1	O-Ring 2-250	48	52282	1	Relief Valve (1 set)
44	56274	1	O-Ring -013	49	52284	2	Relief Valve (1 set)
45†	66515	1	Pump Shaft Seal	50	44344	4	Plug, Hex Socket –4 M ORB
46†	56364	1	Bearing Sleeve				
Item 16 52582 Secondary Manifold Assembly w/Valves							
51	63943	4	#8-18 x 3/8 Tapping Screw	54	92960	4	Plug, Hex Socket –3 M ORB
52	44356	2	Relief Valve Kit (2 sets)	55	29077	3	O-Ring -110
53	52283	1	Relief Valve (2 sets)				
ns = not shown				F = Female			
				M = Male			
				G = Grade			

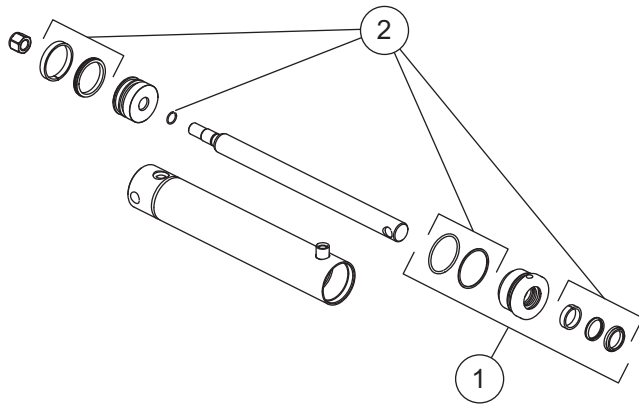
† Use 52251 tool to install.

‡ Use 52252 tool to install.

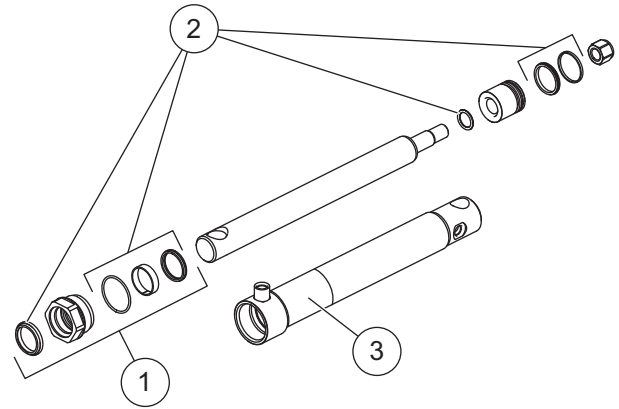
Go to www.snowexproducts.com for hydraulic unit service information and specifications.

HYDRAULIC AND ELECTRICAL COMPONENTS

Lift and Angle Ram Components



52632 Lift Ram Assembly 2-1/2 x 11-3/4			
Item	Part	Qty	Description
1	52633	1	Gland Assembly 1-1/4
2	52634	1	Seal Kit 2-1/2 DA Ram

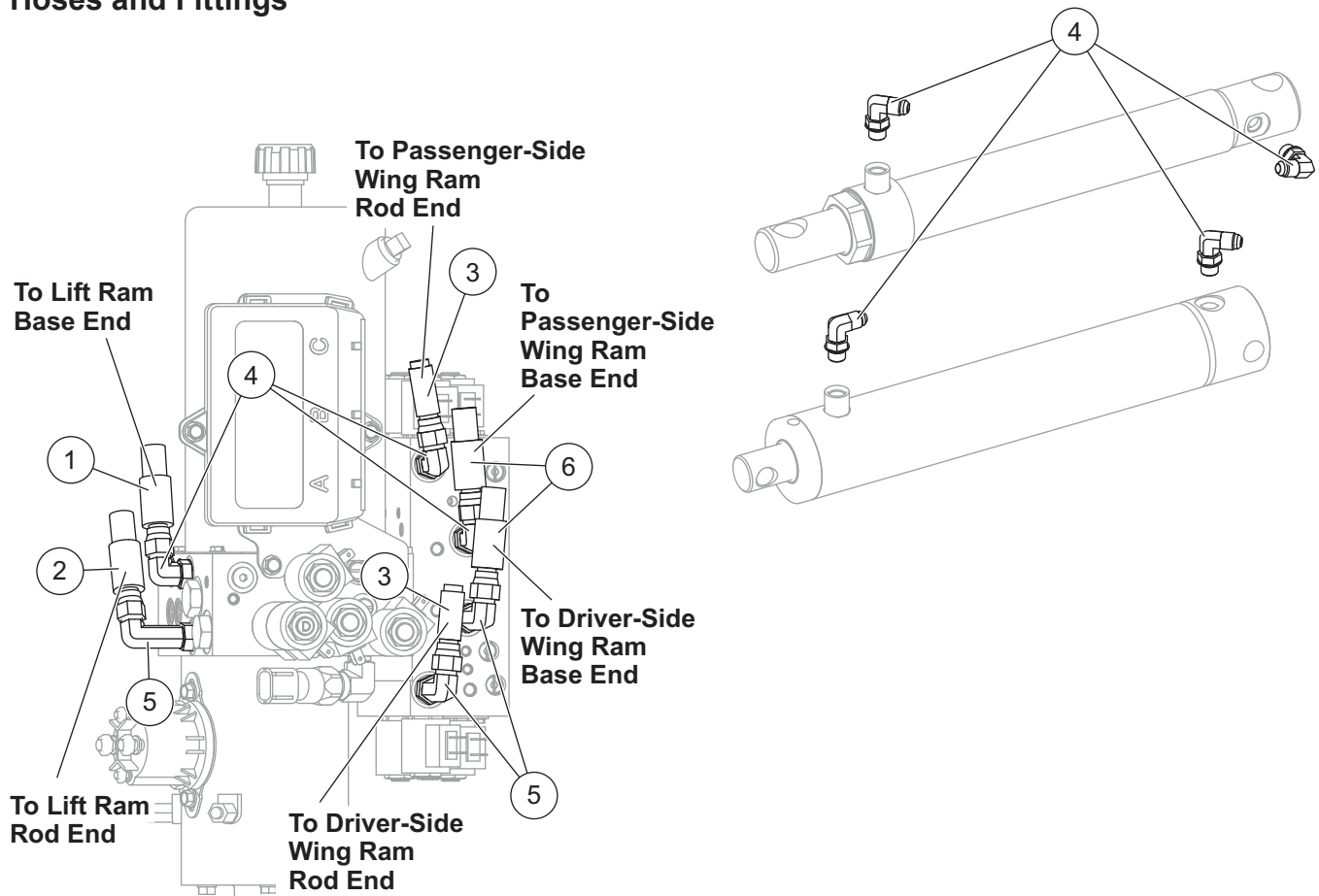


52635 Ram Assembly 1-3/4 x 11 DA			
Item	Part	Qty	Description
1	48985	1	Gland Assembly 1-1/2
2	84832	1	Seal Kit 1-3/4 DA Ram
3	84906	1	Label – Logo, Double-Acting Cylinder

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HYDRAULIC AND ELECTRICAL COMPONENTS

Hoses and Fittings

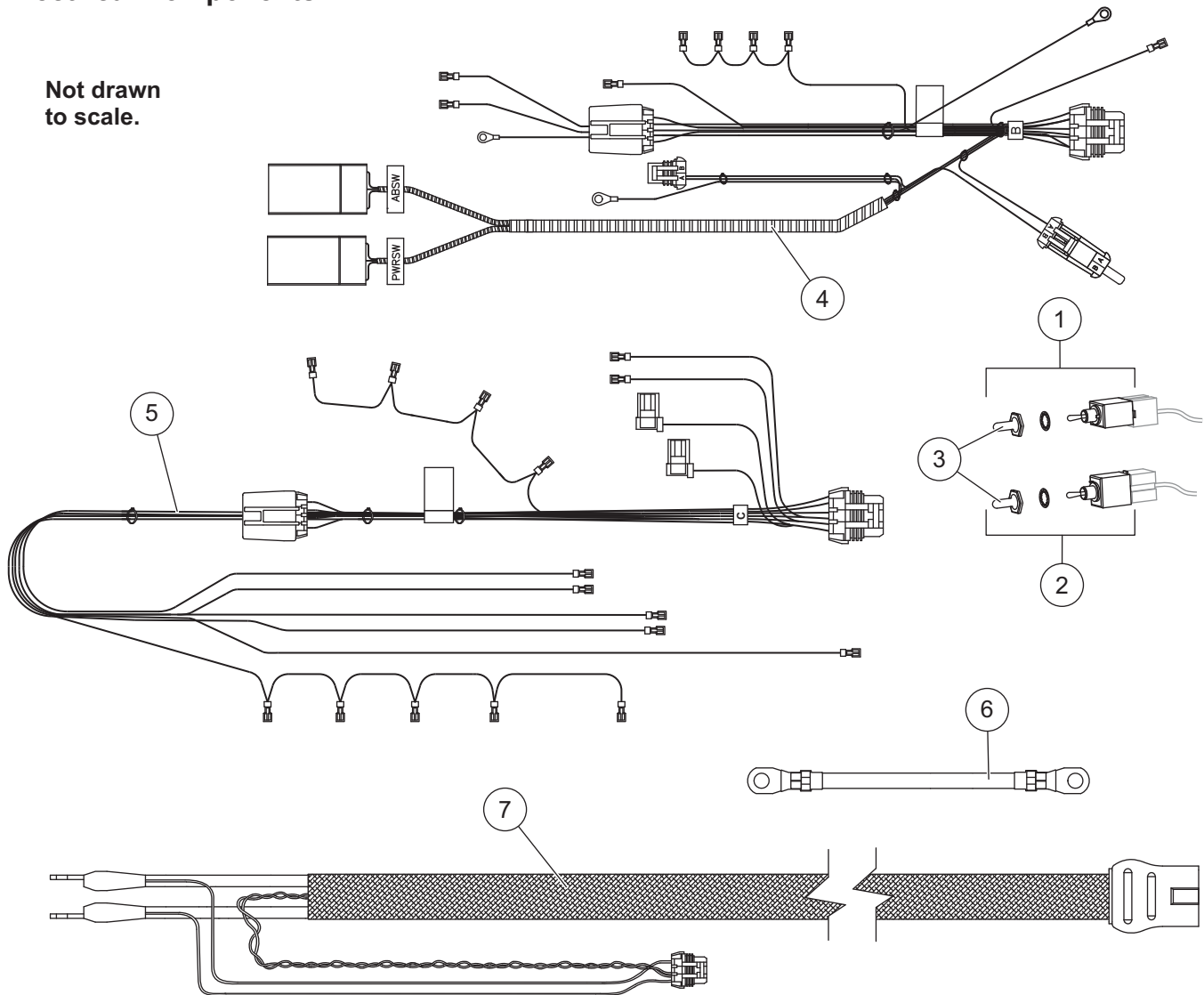


Hoses and Fittings							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	84926	1	Hose, 3/8 x 14 w/F JIC Ends	5	40572	3	Elbow, Extra Long 90° -6 M JIC/-6 M ORB
2	84897	1	Hose, 3/8 x 26 w/F JIC Ends	6	85104	2	Hose, 3/8 x 67 w/F JIC Ends
3	85107	2	Hose, 1/4 x 67 w/F JIC Ends	ns	56823	4	Hose Wrap
4	56615-1	9	Elbow, 90° -6 M JIC/-6 M ORB				
F = Female				ns = not shown		M = Male	

HYDRAULIC AND ELECTRICAL COMPONENTS

Electrical Components

Not drawn
to scale.



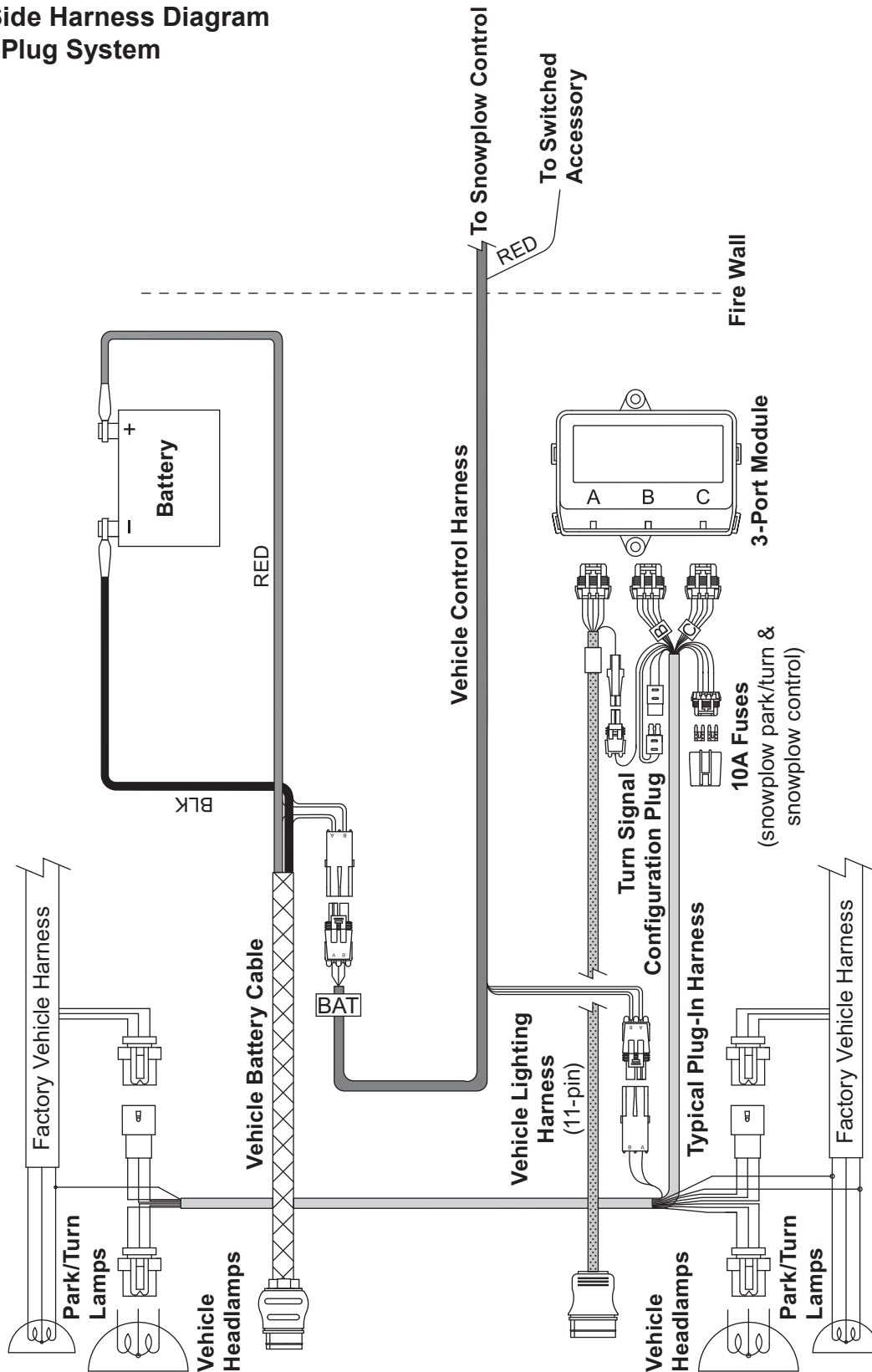
Plow control module is shown with hydraulic unit; cable boot shown on headgear page.

Plow-Side Electrical Components						
Item	Part	Qty	Description	Item	Part	Qty Description
1	40575	1	Toggle Switch (MOM-ON, OFF, ON)	5	52563	1 Harness Plow Control, 9-Coil
2	40576	1	Toggle Switch (MOM-ON, OFF, MOM-ON)	6	29071	1 Cable Assembly 8"
3	48259	2	Switch Boot	7	52291	1 Plow Battery Cable
4	52108	1	Harness Plow Control, 4-Coil	ns		4 Fuse, 5A Mini Automotive-Style (for items 4 and 5)
Vehicle-Side Electrical Components						
*	72527	1	Vehicle Battery Cable	ns	48325	2 Plug Cover
*	28587	1	Vehicle Control Harness			
ns = not shown						

* For diagram see Vehicle-Side Harness Diagram.

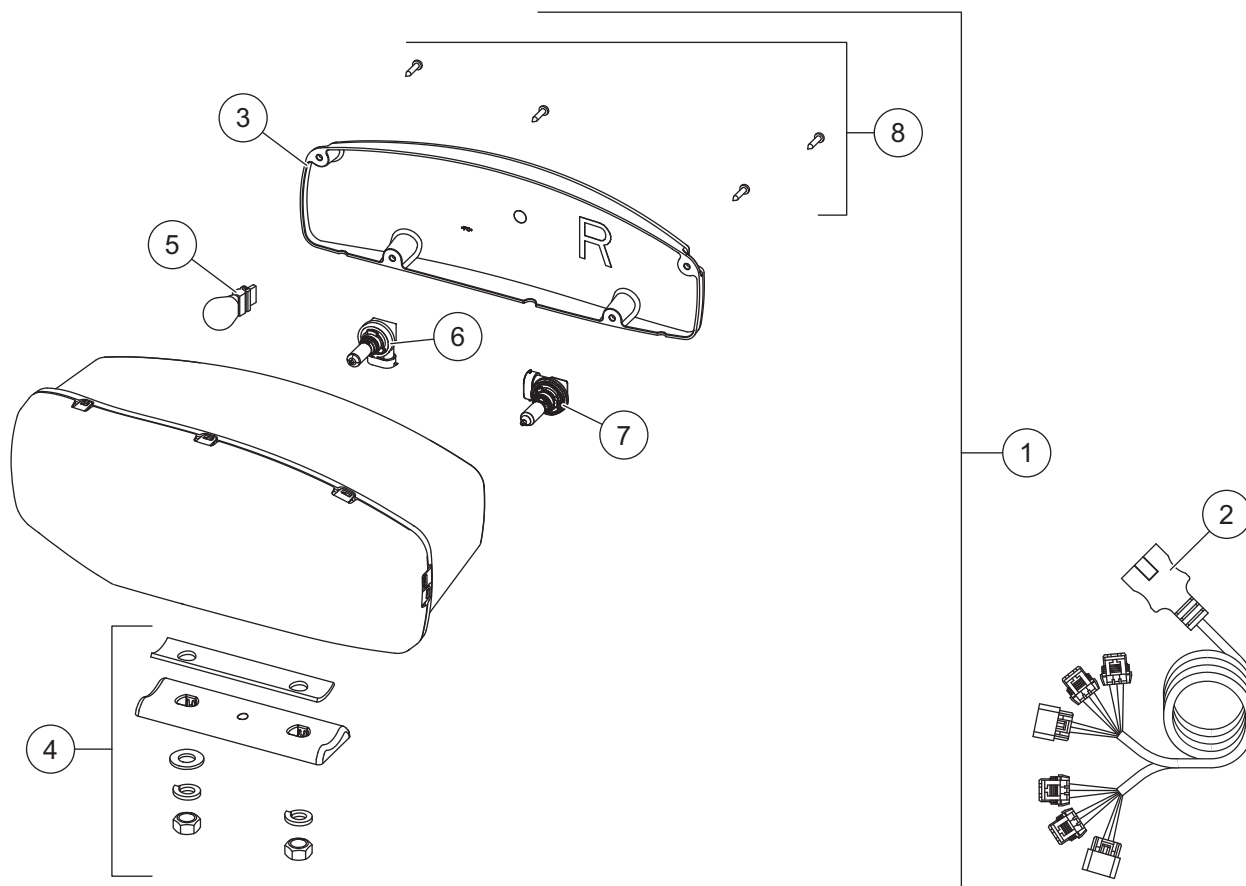
VEHICLE-SIDE HARNESS DIAGRAM

Vehicle-Side Harness Diagram
3-Port, 2-Plug System



HEADLAMP KIT

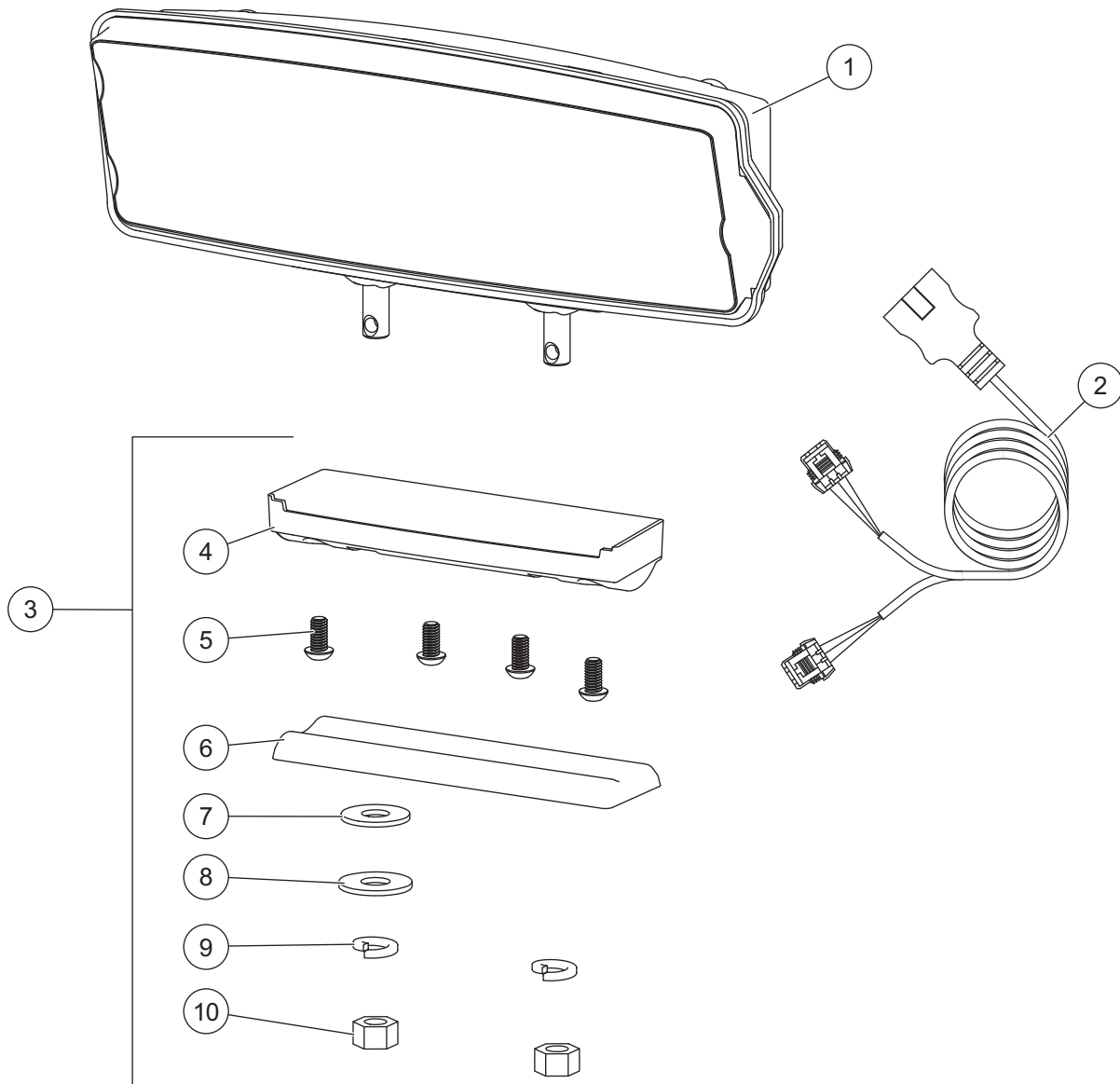
Headlamp Kit – Halogen



38800 Headlamp Kit H9/H11 (pair)							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	38802	1	Headlamp Service Kit H9/H11 – PS	2	38807	1	Harness Service Kit H9/H11
ns	38801	1	Headlamp Service Kit H9/H11 – DS				
Item 1				38801/38802 Headlamp Service Kit H9/H11 – PS/DS			
3	38803	1	Rear Cover Kit H9/H11 – PS	6	38811	1	Headlamp Bulb Service Kit H11
ns	38812	1	Rear Cover Kit H9/H11 – DS	7	38809	1	Headlamp Bulb Service Kit H9
4	38804	1	Mounting Hardware Kit H9/H11	8	38808	1	Cover Screws Service Kit H9/H11 (pkg of 4)
5		1	Park/Turn Bulb (trade no. 4157NAK)				
ns = not shown							

HEADLAMP KIT

Headlamp Kit – LED



Headlamp Kit LED							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	39901	1	Headlamp Service Kit LED – DS	3	39903	1	Mounting Hardware Kit LED
ns	39902	1	Headlamp Service Kit LED – PS	ns	72512	1	LED Harness Connector Cover (pkg of 2)
2	72548	1	Harness Service Kit LED				
Item 3				39903 Mounting Hardware Kit LED			
4		1	Plastic Casing	8		1	1/2 Flat Washer
5		4	1/4 Button Cap Screw	9		2	1/2 Lock Washer
6		1	Headlamp Swivel	10		2	1/2 Hex Nut
7		1	1/2 Rubber Washer	ns		1	Metal Insert
ns = not shown							



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