




**Hydraulic
Cross-Fold Boom**

**45' & 60' HYDRAULIC
CROSS-FOLD BOOM**

Part No. 40869

Foreword

 This symbol identifies important safety messages. When you see it, read the message that follows and be alert to the possibility of personal injury.

Remember, safety instructions stated in this manual are for your protection. Read them carefully and follow them closely when working around or using this machine.

Read and study this manual completely before attempting to operate this implement. Take this manual to the field for handy reference when operating, adjusting, or servicing your machine.

When referenced, “Right-Hand” (RH) and “Left-Hand” (LH) side of the machine are determined by standing behind the machine and facing in the direction of travel.



Product Information

All products manufactured by Unverferth Mfg. Co., Inc. are warranted to be free from material and workmanship defects for one full year from time of consumer delivery. Your local dealer will gladly assist you with any warranty questions.

Please fill out and retain this portion for your records. The serial number decal is located on the top of the center section frame as shown below.

Purchase Date _____ Model _____ Serial No. _____

Dealer _____ City _____

Dealer Contact _____ Phone _____



IMPORTANT

The information, specifications, and illustrations in the manual are on the basis of information available at the time it was written. Due to continuing improvements in the design and manufacture of Unverferth products, all specifications and information contained herein are subject to change without notice.

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General Hazard Information

No accident-prevention program can be successful without the wholehearted cooperation of the person who is directly responsible for the operation of the equipment.

A large number of accidents can be prevented only by the operator anticipating the result before the accident is caused and doing something about it. No power-driven equipment, whether it be transportation or processing, whether it be on the highway, in the field, or in the industrial plant, can be safer than the person who is at the controls. If accidents are to be prevented--and they can be prevented--it will be done by the operators who accept the full measure of their responsibility.

It is true that the designer, the manufacturer, and the safety engineer can help; and they will help, but their combined efforts can be wiped out by a single careless act of the operator.

It is said that, "the best kind of a safety device is a careful operator." We, at Unverferth Mfg. Co., Inc. ask that you be that kind of operator.



REMEMBER:
THINK SAFETY
A CAREFUL OPERATOR IS THE
BEST INSURANCE AGAINST AN
ACCIDENT!

SIGNAL WORDS



INDICATES AN EXTREMELY HAZARDOUS SITUATION OR ACTION THAT WILL RESULT IN SERIOUS INJURY OR DEATH.



INDICATES A HAZARDOUS SITUATION OR ACTION THAT COULD RESULT IN SERIOUS INJURY OR DEATH.



INDICATES AN UNSAFE SITUATION OR ACTION THAT MAY RESULT IN PERSONAL INJURY.

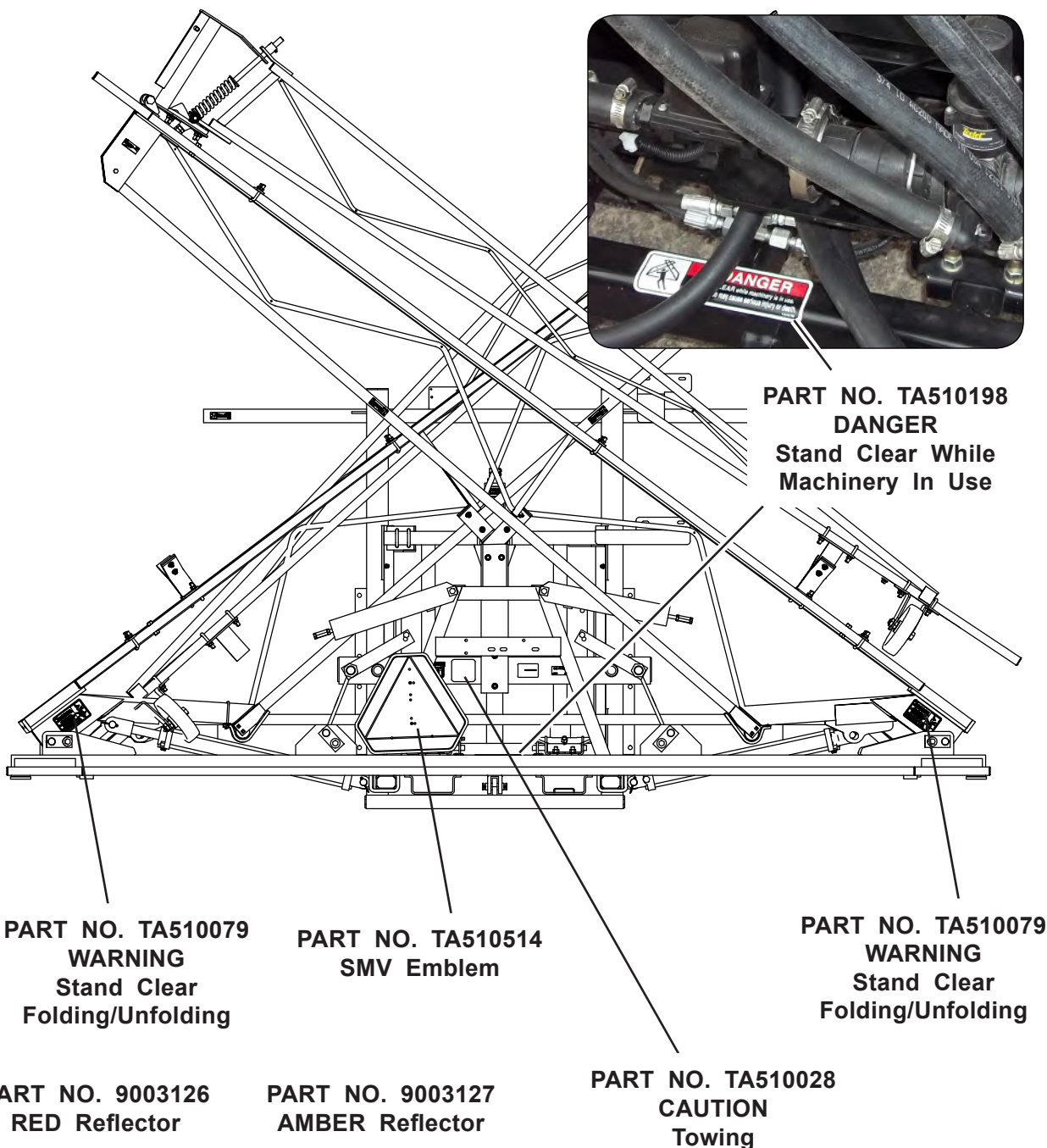


Is used for instruction on operating, adjusting, or servicing a machine.

Safety Decals

⚠ WARNING

- REPLACE LOST, DAMAGED, PAINTED, OR UNREADABLE DECALS IMMEDIATELY. IF PARTS THAT HAVE DECALS ARE REPLACED, ALSO MAKE SURE TO INSTALL NEW DECALS. THESE DECALS INFORM AND REMIND THE OPERATOR WITH OPERATIONAL INFORMATION AND SAFETY MESSAGES.



Following Safety Instructions

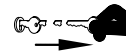
- Read and understand this operator's manual before operating.



- All machinery should be operated only by trained and authorized personnel.

- To prevent machine damage, use only attachments and service parts approved by the manufacturer.

- Always shut the towing vehicle engine and hydraulic power unit engine off and remove the key before servicing the implement.



- Avoid personal attire such as loose fitting clothing, shoestrings, drawstrings, pants cuffs, long hair, etc., that may become entangled in moving parts.


- Do not allow anyone to ride on the implement. Make sure everyone is clear before operating machine or towing vehicle.



- Never attempt to operate the implement unless you are in the driver's seat.



Before Servicing

- Avoid working under an implement; however, if it becomes absolutely unavoidable, make sure the implement is safely blocked. 

- Ensure that all applicable safety decals are installed and legible.

- Residual pressure may exist in sprayer plumbing even when unit is not in use. Remove pressure before servicing any plumbing.

Before Operating

- Always make certain everyone and everything is clear of the machine before beginning operation.

- Ensure that all applicable safety decals are installed and legible.

- This sprayer is intended to only spray agricultural chemicals. Attempting to spray other liquids may cause equipment damage and introduce unexpected personal hazards.

- Check all spray equipment for leaks. Repair any leaks before beginning or resuming operation.

During Operation

- Regulate speed to field conditions. Maintain complete control at all times.
- Never service or lubricate equipment when in operation.
- Keep away from overhead power lines. Electrical shock can cause serious injury or death.
- Use extreme care when operating close to ditches, fences or on hillsides.
- Do not leave towing vehicle unattended with engine running.

Before Transporting

- Make sure that all reflectors are clean and in place on the machine. Make sure the SMV emblem is visible to approaching traffic.

During Transport

- Comply with state and local laws governing highway safety when moving machinery.
- Use transport lights as required by local laws to adequately warn operators of other vehicles.
- Use good judgment when transporting equipment on highways. Regulate speed to road conditions and maintain complete control.
- Maximum speed of sprayer should never exceed 20 mph. Do not exceed 10 mph during off-highway travel.
- Slow down before making sharp turns to avoid tipping. Drive slowly over rough ground and side slopes.
- It is probable that this implement is taller, wider, and longer than the towing vehicle. Become aware of and avoid all obstacles and hazards in the travel path of the equipment, such as power lines, ditches, etc.

Pressurized Oil

- Relieve pressure before disconnecting hydraulic lines from the tractor, loosening any hydraulic fittings or servicing the hydraulic system. See the hydraulic power unit manual for the procedure to relieve pressure.

- High-pressure fluids can penetrate the skin and cause serious injury or death. Use cardboard or wood to detect leaks in the hydraulic system. Seek medical treatment immediately if injured by high-pressure fluids.

- Accumulators used in this hydraulic system can retain fluid under pressure even after the tractor hydraulic valve is placed in FLOAT. Remove residual pressure from the wing tilt and main lift accumulators by holding the wing tilt and main lift switches in the DOWN position for at least 20 seconds after the cylinders have stopped moving.

- Hydraulic system must be purged of air before operating to prevent serious injury or death.

- Do not bend or strike high-pressure lines. Do not install bent or damaged tubes or hoses.

- Repair all oil leaks. Leaks can cause fires, personal injury, and environmental damage.

- Route hoses and lines carefully to prevent premature failure due to kinking and rubbing against other parts. Make sure that all clamps, guards, and shields are installed correctly.

- Check hydraulic hoses and tubes carefully. Replace components as necessary if any of the following conditions are found:
 - End fittings damaged, displaced, or leaking.
 - Outer covering chafed/cut or wire reinforcing exposed.
 - Outer covering ballooning locally.
 - Evidence of kinking or crushing of the flexible part of a hose.

Chemical Hazards

- Always wear personal protective equipment when working with or near chemicals. This equipment includes, but is not limited to: protective eye wear, gloves, shoes, socks, long-sleeved shirt, and long pants. Additional protection may be required for many types of chemicals.

- Seek and receive chemical product training prior to using agricultural chemicals.

- Read and understand the entire label of every chemical being applied with this sprayer.

- Avoid breathing spray mist or vapor.

- Wash hands before eating, drinking, chewing gum, or using the toilet.

- Remove clothing immediately if chemicals penetrate clothing and contact skin. Wash thoroughly and put on clean clothing.

- Dispose of unused chemical in accordance with chemical label directions and local/national regulations.

Electrical Safety

- The electrical system of this sprayer is designed to operate on 12 volt DC power only.

- Never operate the sprayer with a damaged electrical cord. Disconnect electrical power if a cord is damaged.

- Always disconnect power before attempting any electrical repair.

- Disassembly or attempted repairs, if accomplished incorrectly, can create electrical shock and/or short hazards. Only qualified personnel should perform repair service.

- Never attempt to bypass fuses. Do not replace original fuses with higher amperage fuses. If a fuse repeatedly fails, a short hazard may exist.

Preparing for Emergencies

- Keep a first aid kit and properly rated fire extinguisher nearby.



- Keep emergency numbers for fire, rescue, and poison control personnel near the phone.



Wearing Protective Equipment

- Wear clothing and personal protective equipment appropriate for the job.



- Wear steel-toed shoes when operating.



- Wear hearing protection when exposed to loud noises.



- Do not wear additional hearing impairing devices such as radio headphones, etc.



Notes

SECTION II

Setup & Maintenance

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"If the mounted implement obscures the Tractor SIS you must order the appropriate SIS decal stated by the Tractor Operator Manual.

ItemDescription

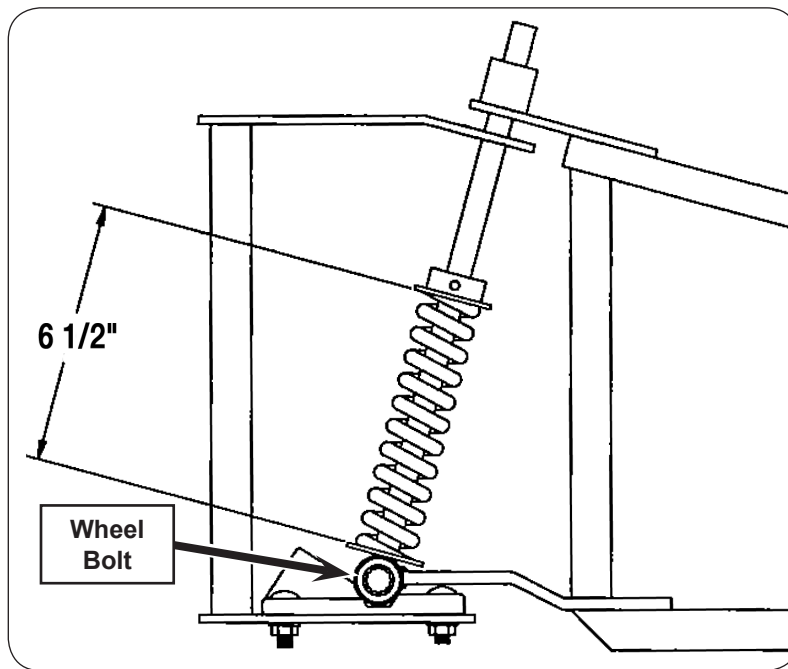
- 9008712 DECAL - REAR SIS 25 MPH
- 9008714 DECAL - REAR SIS 20 MPH
- 9008716 DECAL - REAR SIS 15 MPH
- 9008718 DECAL - REAR SIS 40 KPH
- 9008720 DECAL - REAR SIS 30 KPH
- 9008722 DECAL - REAR SIS 25 KPH

This Item is on the Sprayer.

- 79986B PLATE - BLACK

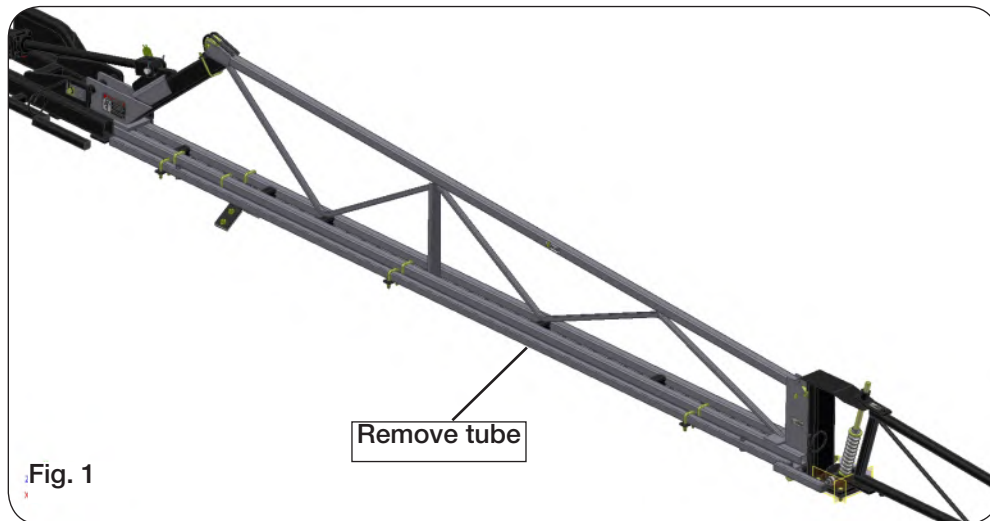
Changing Breakaway Wheels or Breakaway Wheel Bolts

1. Loosen the 3/4" jam nuts on the threaded rod which will relieve the tension on the spring.
2. Loosen the set screws that lock the wheel bolts in place and remove the wheel bolt. This will also allow the wheel to be removed.
3. Replace the wheel bolt, wheel, thrust bearing, and thrust washers as shown on the previous page.
4. Tighten wheel bolt so it turns tightly. Wheel should not spin freely.
5. Tighten set screws to lock wheel bolts in place.
6. Tighten 3/4" jam nuts on threaded rod and compress spring to 7 1/8" as shown in the figure below.



7. Grease all grease zerks daily.

Setup Instructions

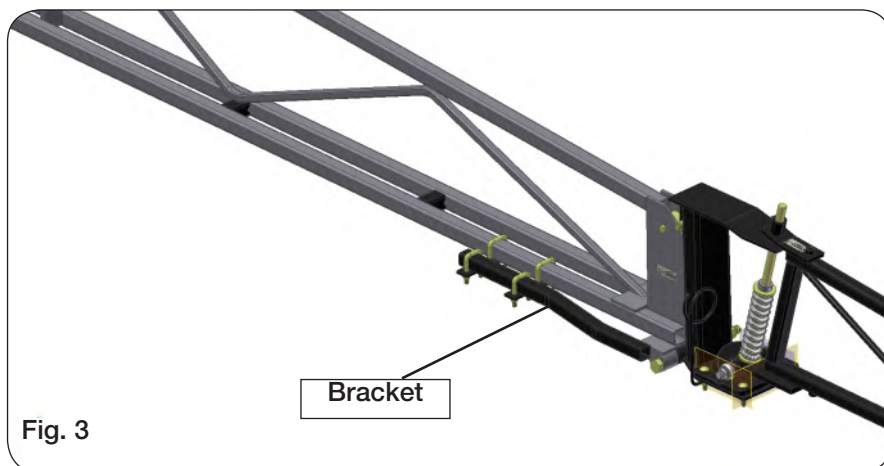


NOTE: These instructions are for units with Triple Nozzles only.

1. Remove Tube Weldment (TA540427B) and related mounting brackets/hardware (TA522030B, TA510072, TA510036, 9404-021, 9394-006), from the main wing assembly (Fig. 1 & 2).



2. Mount TA522796B, found in the plumbing kit, in the location shown in Fig. 3, using the following brackets and hardware: TA522030B, TA522072, TA510036, 9394-006, 9404-021.



Notes

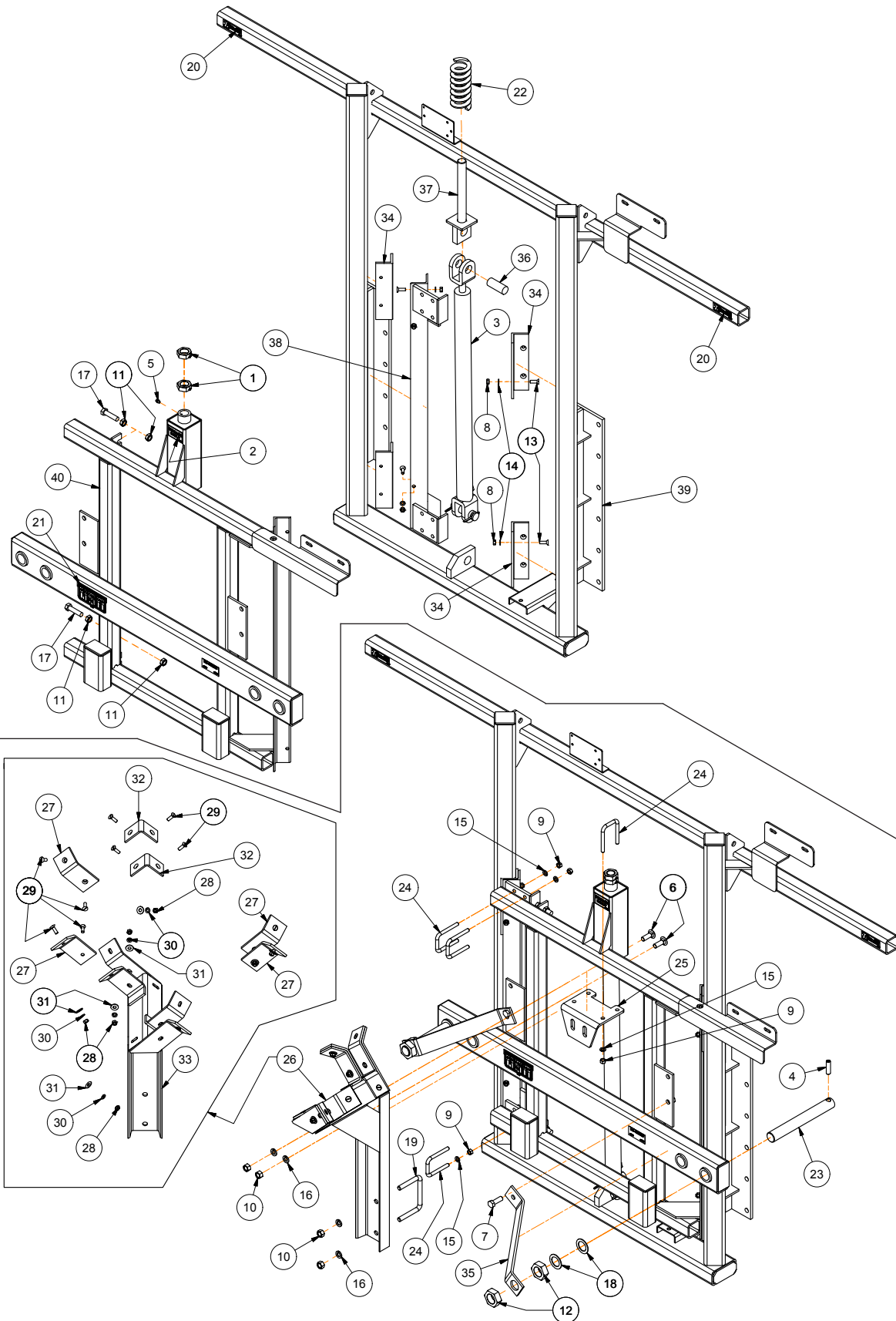
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CROSS-FOLD BOOM — Parts

H-Frame & Glider Assembly Components



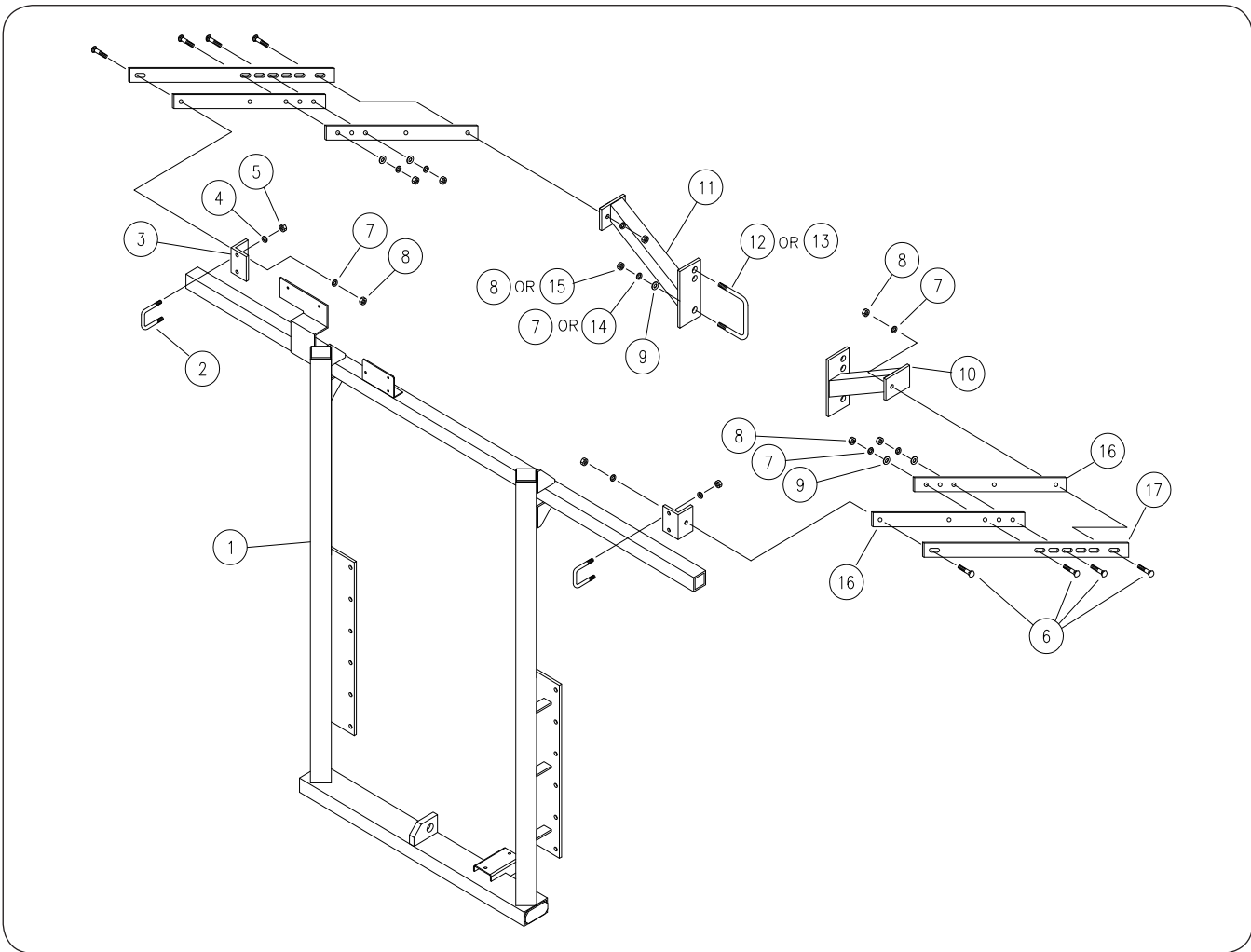
CROSS-FOLD BOOM — Parts

H-Frame & Glider Assembly Components

ITEM	PART NO.	QTY	DESCRIPTION	NOTES
	TA102513	1	H-Frame & Glider Assembly	
1	805660	2	Hex Jam Nut 1-14UNF w/Set Screw	
2	9000228	1	Decal, Grease Daily	
3	9004616	1	Cylinder 1 1/2 x 24 (3000 PSI)	Beginning w/Serial No. B22140107 (Includes Item #1 - Pin Package)
	9004618	-	Seal Kit	
	9004302	-	Pin Package	Included with Cylinder
3A	9004048	1	Cylinder 1 1/2 x 24 (3000 PSI)	Prior to Serial No. B22140107
	404862	-	Seal/Head Gland Kit	
3B	9004043	1	Cylinder 2 1/2 x 24 (3000 PSI)	
	95388	-	Seal Kit	
3C	TA500645-1	1	Cylinder 2 1/2 x 24 (2500 PSI)	
	9003537	-	Seal Kit	
4	91144-234	2	Spiral Pin 1/2" Dia. x 1 3/4	
5	91160	1	Grease Zerk	
6	9388-104	2	Carriage Bolt 1/2-13UNC x 1 1/2	Grade 5
7	9390-101	2	Capscrew 1/2-13UNC x 1 1/2	Grade 5
8	9394-004	8	Hex Nut 5/16-18UNC	
9	9394-006	12	Hex Nut 3/8-16UNC	
10	9394-010	6	Hex Nut 1/2-13UNC	
11	9395-010	4	Hex Jam Nut 1/2-13UNC	
12	9395-023	4	Hex Jam Nut 1 1/4-12UNF	
13	903171-660	8	Flat Head Screw 5/16-18UNC x 1	
14	9404-019	8	Lock Washer 5/16	
15	9404-021	12	Lock Washer 3/8	
16	9404-025	6	Lock Washer 1/2	
17	97369	2	Capscrew 1/2-13UNC x 2 Full Threaded	Grade 5
18	TA500397	4	Bushing 1.875 OD x 1.25 ID x .074	
19	TA510000	1	U-Bolt 1/2-13UNC x 3 1/4	
20	TA510008	2	Decal, Top Air Logo	
21	TA510031	1	Decal, USA	
22	TA510062	1	Spring, Main Wing	
23	TA510077	2	Swing Arm Shaft	
24	TA510095	6	U-Bolt 3/8-16UNC x 3 1/4	
25	TA522244B	1	Back Brace Plate	
26	TA580434	1	Boom Rest Assembly w/Poly Pad	
27	402425	4	Poly Pad	
29	903171-660	12	Flat Head Screw 5/16-18UNC x 1	
28	9394-004	12	Hex Nut 5/16-18UNC	Grade 5
30	9404-019	12	Lock Washer 5/16	
31	9405-070	12	Flat Washer 5/16	
32	TA522266-1	2	Wing Rest Poly Pad	
33	TA540288B	1	Boom Rest Weldment	
34	TA610043	4	Poly Angle Glider	
35	TA620050B	2	Swing Brace	
36	TA620064	1	Top Cylinder Pin 1" Dia. x 2 1/2	
37	TA640000B	1	Top Cylinder Mounting Weldment	
38	TA640001B	1	Adjustable Glider Weldment	
39	TA680000B	1	H-Frame Weldment	
40	TA680001B	1	Crossfold Glider Weldment	

CROSS-FOLD BOOM — Parts

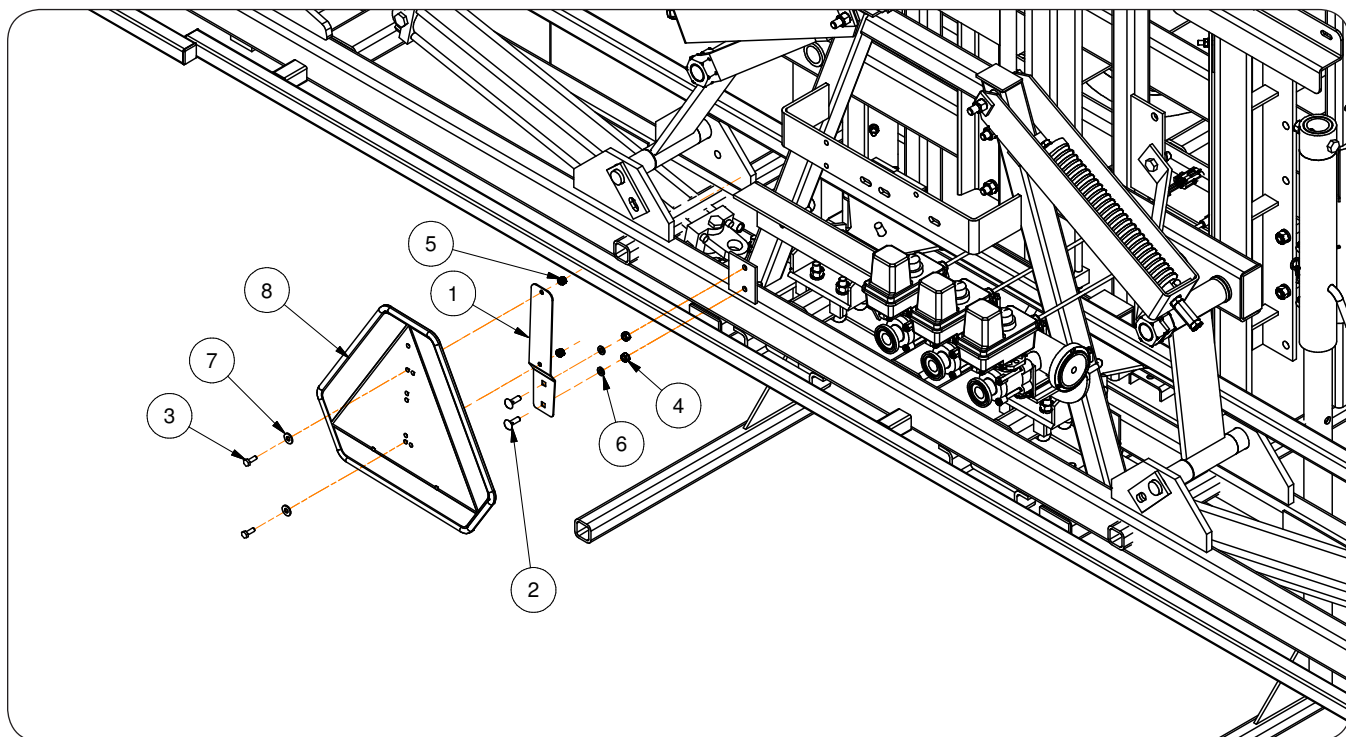
H-Frame Braces For 550 Trailer Sprayers



ITEM	PART NO.	QTY	DESCRIPTION
1	TA680000B	1	H-Frame Assembly
2	TA510095	2	U-Bolt 3/8-16UNC x 3 1/4
3	TA620081B	2	Top Brace Rod Mounting
4	9404-021	4	Lock Washer 3/8
5	9394-006	4	Hex Nut 3/8-16UNC
6	9388-104	8	Carriage Bolt 1/2-13UNC x 1 1/2
7	9404-025	12	Lock Washer 1/2
8	9394-010	12	Hex Nut 1/2-13UNC
9	9405-088	8	Flat Washer 1/2
10	TA580179B	1	Brace Riser Bracket - Right
11	TA580197B	1	Brace Riser Bracket - Left

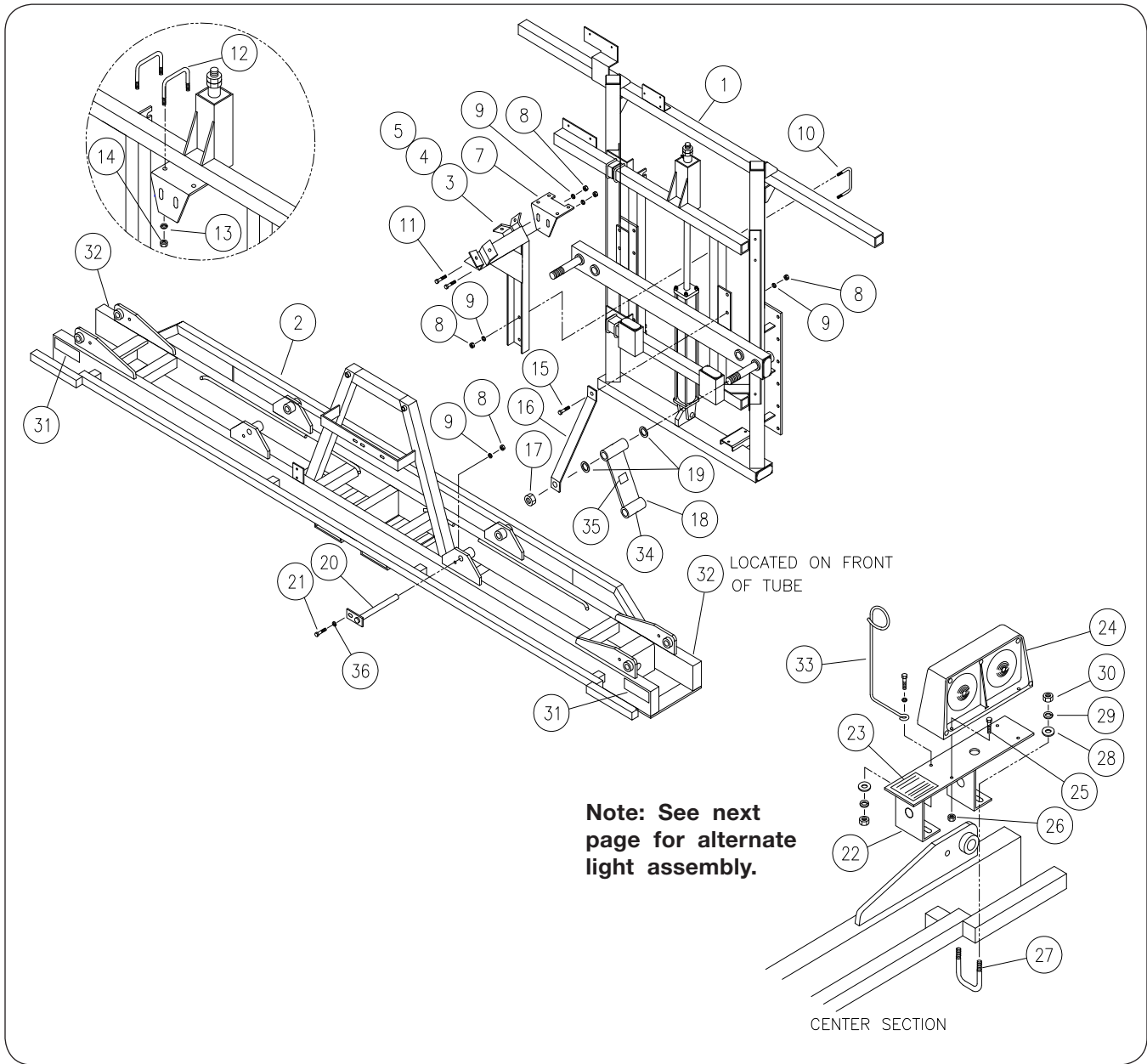
ITEM	PART NO.	QTY	DESCRIPTION
12	TA510000	2	U-Bolt 1/2-13UNC x 3 1/4 (Used on 500ML, 500 & 700 ELL)
13	TA510086	2	U-Bolt 5/8-11UNC x 4 1/2 (Used on 750ML & 1000ML)
14	9404-029	4	Lock Washer 5/8
15	9394-014	4	Hex Nut 5/8-11UNC
16	TA521071B	4	Brace Rod (500ML, 500 & 750 ELL)
17	TA620152B	2	Brace Rod (T-Tank Sprayers Excluding Front Fold)

SMV Sign Mounting



ITEM	PART NO.	QTY	DESCRIPTION
1	TA51516	1	SMV Sign Mount
2	9388-025	2	Carriage Bolt 5/16-18UNC x 1
3	9390-003	2	Capscrew 1/4-20UNC x 3/4 (Grade 5)
4	9394-004	2	Hex Nut 5/16-18UNC
5	9398-007	2	Elastic Hex Nut 1/4
6	9404-019	2	Lock Washer 5/16
7	9405-064	2	Flat Washer 1/4
8	TA510514	1	SMV Sign & Hardware (Includes Items 2-5)

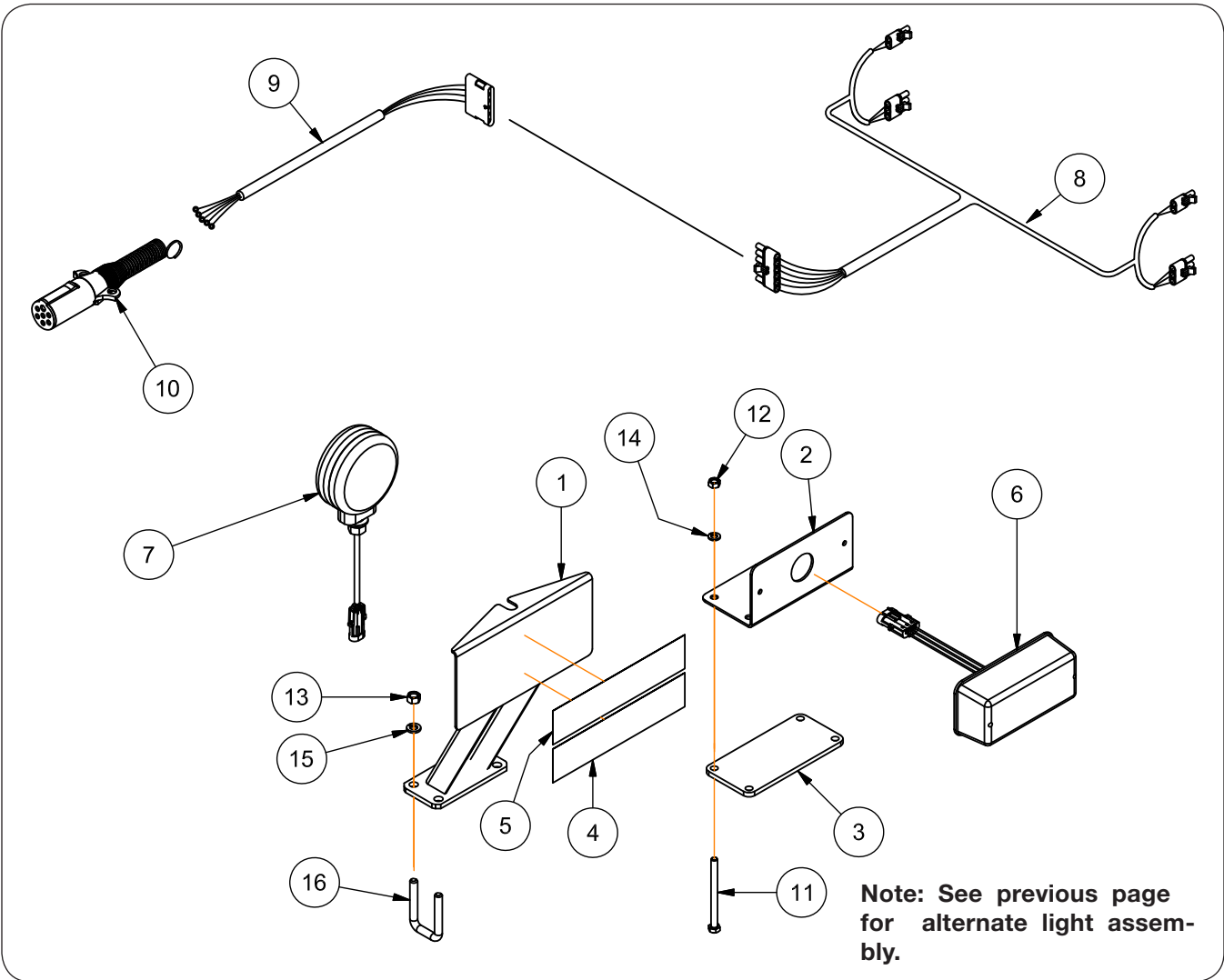
Self-Leveling Center Section



CROSS-FOLD BOOM — Parts**Self-Leveling Center Section**

ITEM	PART NO.	QTY	DESCRIPTION	NOTES
1	TA102513B	1	H-Frame & Glider Assembly	
2	TA580367B	1	Center Section	
3	TA580434	1	Boom Rest Assembly w/Pads & Hardware	
4	TA522266-1	2	Poly Pad	
5	402425	4	Poly Pad	
6	903171-662	12	Flat Head Screw 5/16-18UNC x 1 1/4	
7	TA522244B	1	Back Brace	
8	9394-010	8	Hex Nut 1/2-13UNC	
9	9404-025	8	Lock Washer 1/2	
10	TA510000	1	U-Bolt 1/2-13UNC x 3 1/4 x 4	
11	9388-104	2	Carriage Bolt 1/2-13UNC x 1	
12	TA510095	2	U-Bolt 3/8-16UNC x 3 1/4 x 2	
13	9404-021	4	Lock Washer 3/8	
14	9394-006	4	Hex Nut 3/8-16UNC	
15	9390-099	2	Capscrew 1/2-13UNC x 1	
16	TA620050B	2	Swing Brace	
17	9395-023	4	Jam Nut 1 1/4-12UNF	
18	TA540242B	2	Swing Arm Assembly	
19	TA500397	2	Machinery Bushing 1.875 O.D. x 1.25 I.D.	
20	TA640034	2	Center Section, Mounting Pin 1" Dia.	
21	9390-103	2	Capscrew 1/2-13UNC x 2	
22	TA540450B	2	Tail Light Mounting without Decal	
23	TA1-916182-0	2	Decal, Tail Light Instructions	
24	TA0-903996-0	2	Tail Light Kit, Transport	
24A	9003716	1	Right-Hand Tail Light	
24B	9003717	1	Left-Hand Tail Light	
24C	9003718	1	Extension Cable 25'	
24D	9003719	1	Wishbone Cable	
25	9390-009	8	Capscrew 1/4-20UNC x 1 1/4	
26	9936	8	Locknut 1/4-20UNC	
27	TA510036	4	U-Bolt 3/8-16UNC x 2 3/4 x 1 1/2	
28	9405-076	8	Flat Washer 3/8	
29	9404-021	8	Lock Washer 3/8	
30	9394-006	8	Hex Nut 3/8-16UNC	
31	9003126	2	Reflector =Red=	
32	9003127	2	Reflector =Amber=	
33	9004602	2	Hose Holder	
34	91160	5	Grease Zerk	
35	93459	2	Decal, Grease Daily	
36	9405-088	2	Flat Washer 1/2 USS	

Tail Light Assembly For 550 & 3-Pt. Sprayers

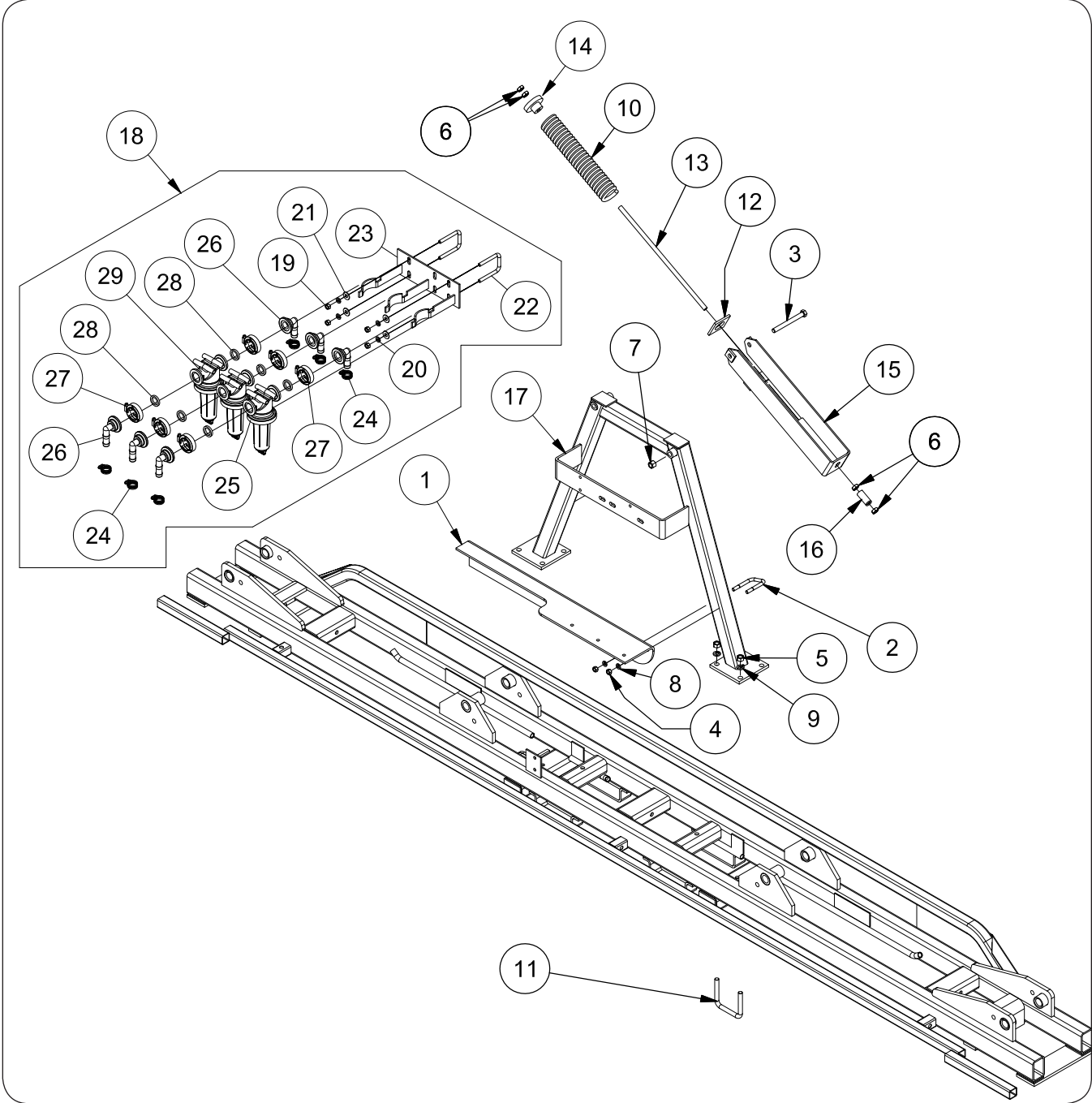


CROSS-FOLD BOOM — Parts**Tail Light Assembly For 550 & 3-Pt. Sprayers**

ITEM	PART NO.	QTY	DESCRIPTION	NOTES
	402702	-	Optional Lighting Kit For 3-Pt. Sprayers	Lights are standard on 550 Sprayers
1	402429B	2	Light Bracket Weldment	
2	402432B	2	Red Light Mounting Bracket	
3	402442B	2	Red Light Mounting Plate	
4	9003125	2	Fluorescent Orange Strip	
5	9003126	2	Reflector, Red	
6	232170	2	Light, Red	
7	9003876	2	Light, Amber	
8	9003975	1	Lighting Wiring Harness	For 3-Pt. Sprayers
	9003974		Lighting Wiring Harness	For 550 Sprayers
9	9003976	1	Wiring Harness	For 3-Pt. Sprayers
	9003277		Wiring Harness	For 550 Sprayers
10	92450	1	7-Pin Plug	
11	9390-042	8	Capscrew 5/16-18UNC x 4	
12	9394-004	8	Hex Nut 5/16-18UNC	
13	9394-006	8	Hex Nut 3/8-16UNC	
14	9404-019	8	Lock Washer 5/16	
15	9404-021	8	Lock Washer 3/8	
16	TA510072	4	U-Bolt 3/8-16UNC x 2 1/2	

CROSS-FOLD BOOM — Parts

Compression Spring Assembly With Boom Strainer Mounting

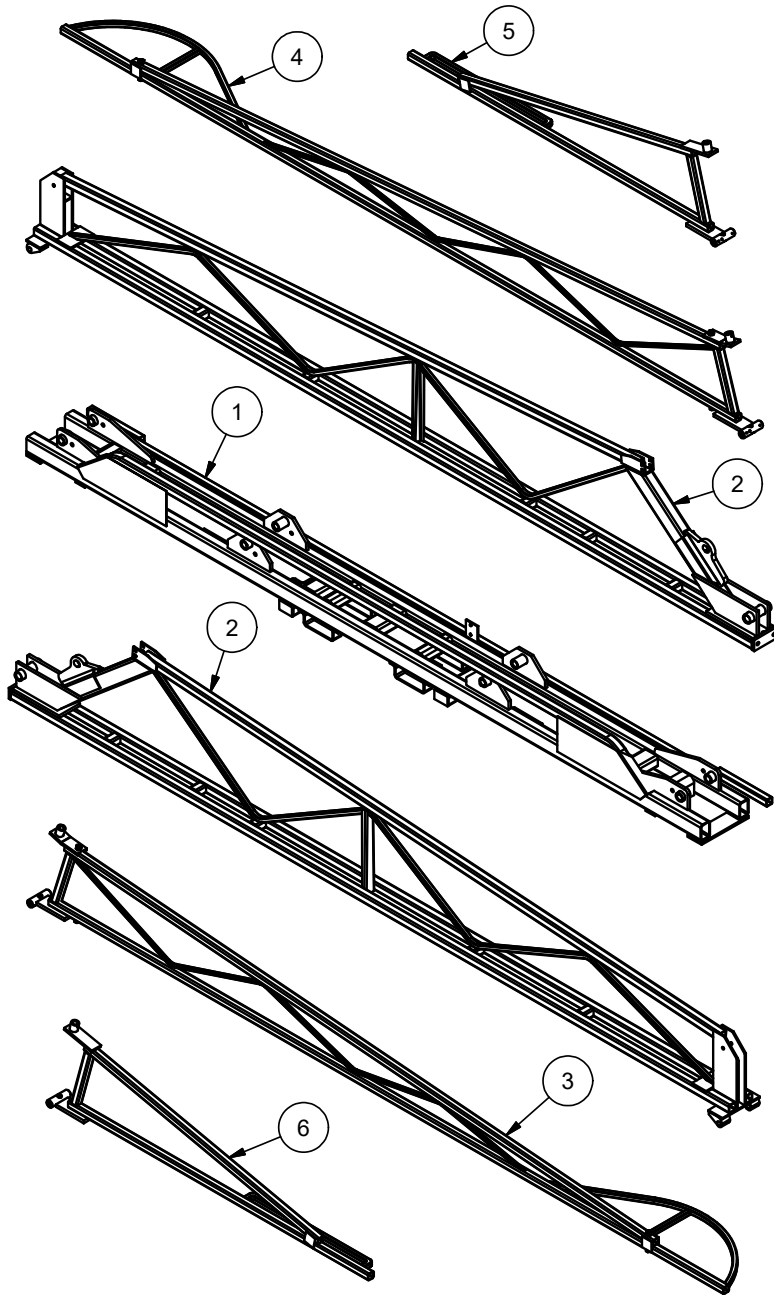


CROSS-FOLD BOOM — Parts**Compression Spring Assembly With Boom Strainer Mounting**

ITEM	PART NO.	QTY	DESCRIPTION
1	40805B	1	Bracket
2	900077	2	U-Bolt 3/8-16UNC x 3 (Grade 5)
3	9390-113	2	Capscrew 1/2-13UNC x 5 (Grade 5)
4	9394-006	4	Hex Nut 3/8-16UNC
5	9394-010	8	Hex Nut 1/2-13UNC
6	9395-010	8	Hex jam Nut 1/2-13UNC
7	9398-016	2	Elastic Stop Nut 1/2-13UNC
8	9404-021	4	Lock Washer 3/8
9	9404-025	8	Lock Washer 1/2
10	TA510512	2	Compression Spring 2 3/8 OD x 12 7/16
	TA510226	-	Spring Extension
11	TA510540	4	U-Bolt 1/2-13UNC x 3 1/2
12	TA522247B	2	Spring Wear Plate
13	TA522264	2	Shaft 1/2 Dia. x 16 1/2
14	TA522281B	2	Spring Keeper
15	TA540291B	2	Spring Holder Weldment
16	41396	2	Coupler 1" Dia. x 2 1/4 with 1/2-13UNC & 3/4-10UNC Ends
	TA500674		Coupling Hex Nut 1/2-13UNC x 1 3/4
17	TA580415B	1	Spring Hose Holder Stand Weldment
18	TA300350	-	Boom Strainer Kit 3/4" (3 Section) (Includes Items 19 through 29)
19	9394-006	4	Hex Nut 3/8-16UNC
20	9404-021	4	Lock Washer 3/8
21	9405-076	4	Flat Washer 3/8
22	TA510095	2	U-Bolt 3/8-16UNC x 2.37 c/c
	91163	2	U-Bolt 3/8-16UNC x 1.93 c/c
23	TA540533B	1	Flange Strainer Weldment
24	TA800910	6	Hose Clamp SZ-12 (Stainless Steel)
25	TA800924	3	Hose Clamp SC-48 (Stainless Steel)
26	TA815017	6	90° Elbow 1" Flange x 3/4" Hose Barb
27	TA815026	6	Flange Clamp 1" Worm Screw
28	TA815029	6	Gasket/Seal
29	TA815081	3	Strainer 1" Flange (50 Mesh)

CROSS-FOLD BOOM — Parts

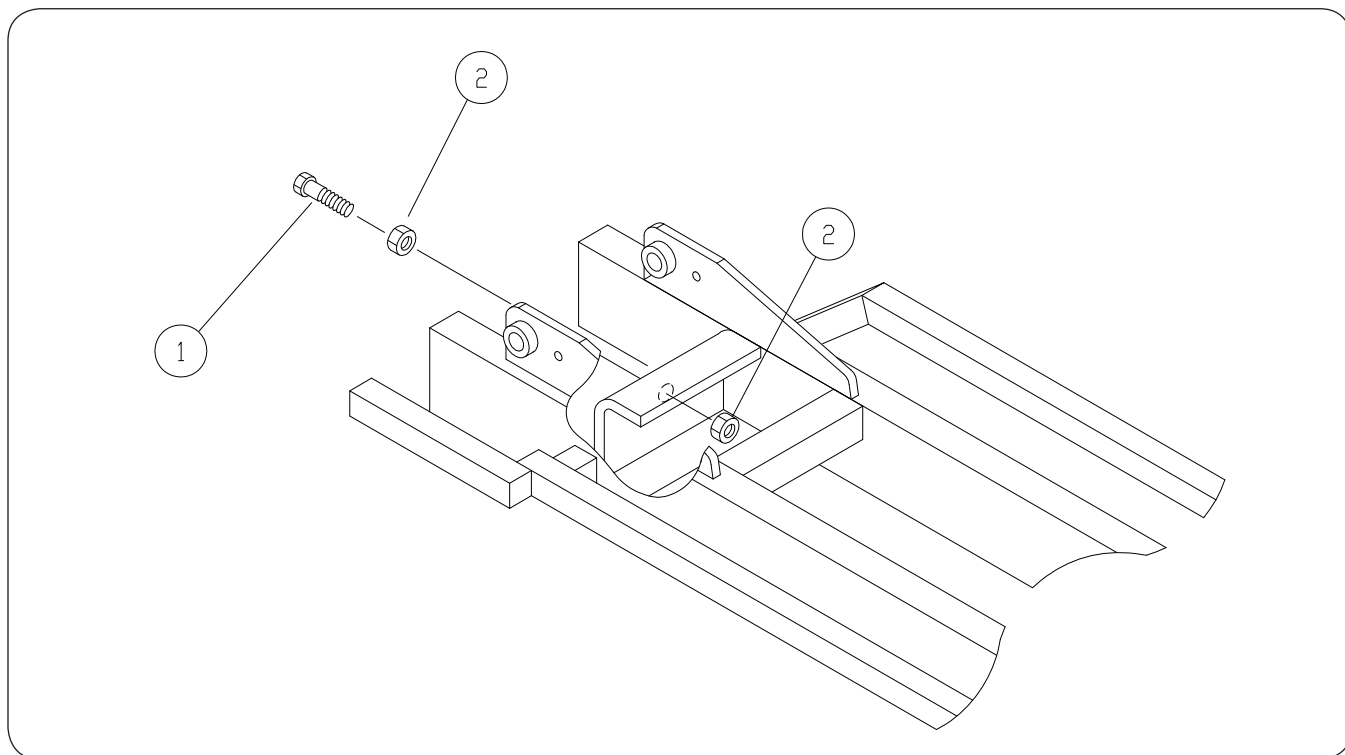
Cross-Fold Sections



ITEM	PART NO.	QTY	DESCRIPTION	NOTES
1	TA580367B	1	Cross-Fold Center Section	For 45' & 60' Wings
2	TA580353B	2	Cross-Fold Main Wing	For 45' & 60' Wings
3	TA580358B	1	Cross-Fold End Wing Right-Hand	For 60' Wings
4	TA580354B	1	Cross-Fold End Wing Left-Hand	For 60' Wings
5	TA540332B	1	Cross Fold End Wing Right-Hand	For 45' Wings
6	TA540331B	1	Cross-Fold End Wing Left-Hand	For 45' Wings

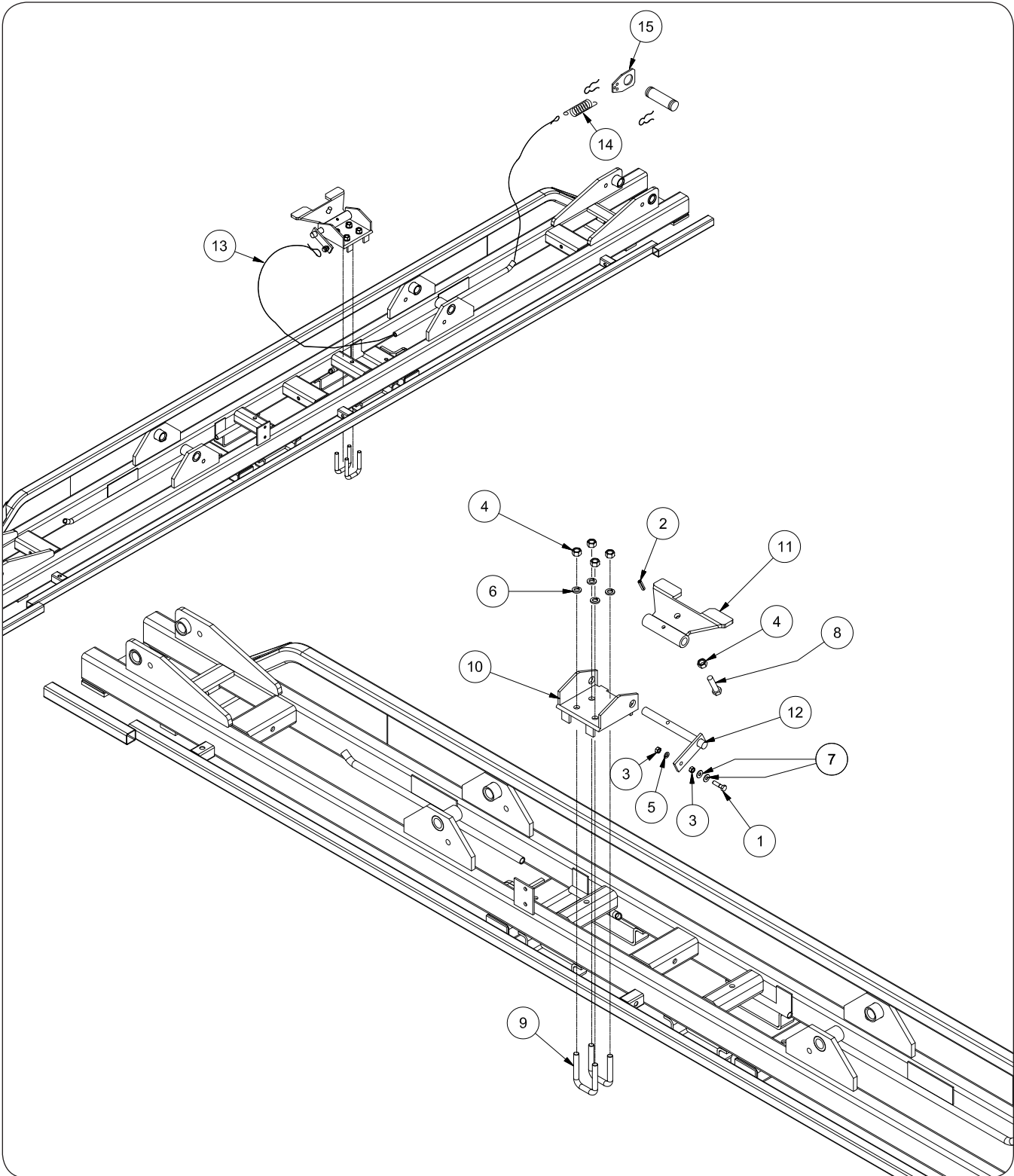
CROSS-FOLD BOOM — Parts

Main Wing Stop Components



ITEM	PART NO.	QTY	DESCRIPTION	NOTES
1	9390-187	2	Capscrew 1-8UNC x 3	Grade 5
2	9395-020	4	Hex Jam Nut 1-8UNC	

Swing Lock Assembly

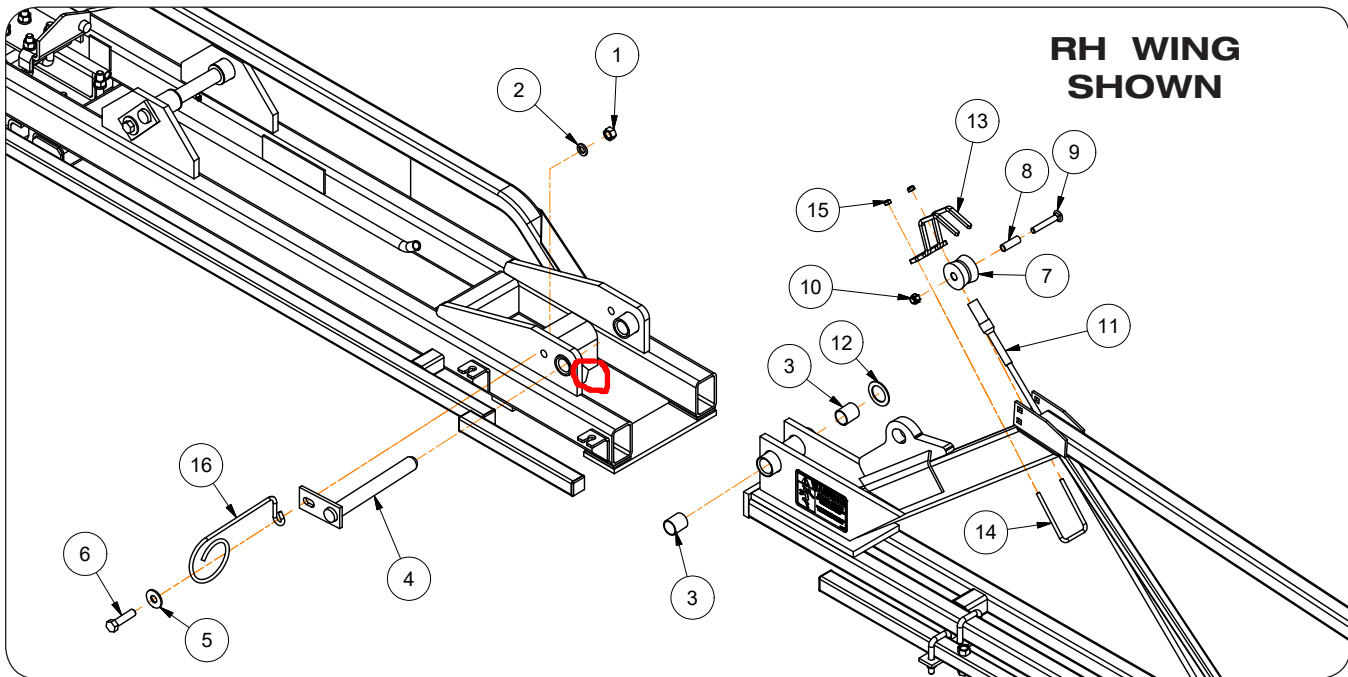


CROSS-FOLD BOOM — Parts**Swing Lock Assembly**

ITEM	PART NO.	QTY	DESCRIPTION	NOTES
1	9390-031	2	Capscrew 5/16-18UNC x 1 1/4	Grade 5
2	900909-153	2	Roll Pin 5/16 Dia. x 1 1/4	Stainless Steel
3	9394-004	4	Hex Nut 5/16-18UNC	Grade 5
4	9394-010	10	Hex Nut 1/2-13UNC	Grade 5
5	9404-019	2	Lock Washer 5/16	
6	9404-025	8	Lock Washer 1/2	
7	9405-064	4	Flat Washer 1/4	
8	97369	2	Capscrew 1/2-13UNC x 2 (Full Threaded)	Grade 5
9	TA510571	4	U-Bolt 1/2-13UNC x 3 1/4	Grade 5
10	TA522696B	2	House Locking Plate	
11	TA540401B	2	Swing Lock Weldment	
12	TA540402	2	Sping Pin Weldment	
13	TA580490	2	Swing Lock Cable	
14	TA1-902422-0	2	Spring Extension	
15	TA522470B	2	Spring Mounting	

CROSS-FOLD BOOM — Parts

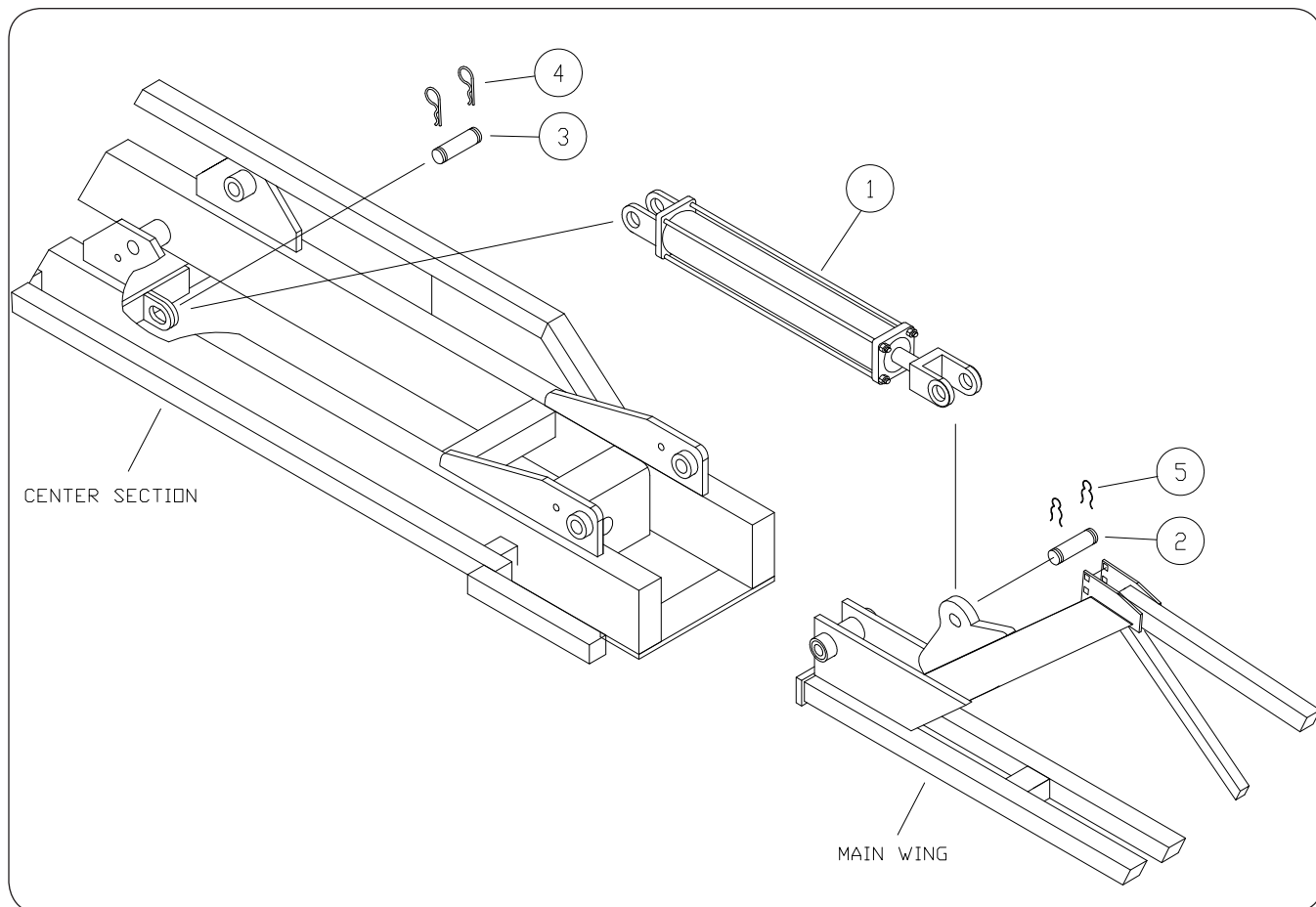
End Wing Rest Mounting Components



ITEM	PART NO.	QTY	DESCRIPTION	NOTES
1	9394-010	2	Hex Nut 1/2-13UNC	Grade 5
2	9404-025	2	Lock Washer 1/2	
3	9003440	4	Self-Lubricating Bushing	
4	TA640035	2	Pin Weldment 1 Dia. x 8 3/4	
5	9405-088	5	Flat Washer 1/2" USS	
6	9390-103	2	Capscrew 1/2-13UNC x 2	Grade 5
7	403716	2	Roller 2 OD	
8	403715	2	Bronze Bushing 1/2 OD x 3/8 ID 1 1/2	
9	9388-057	2	Carriage Bolt 3/8-16UNC x 2 1/2	Grade 5
10	9398-012	2	Elastic Stop Nut 3/8-16UNC	Grade 5
11	41397	2	Boom Cable 3/8" Dia. x 186 1/2	
	41400		Boom Cable 1/4" Dia. x 186 1/2 (use with TA510512 - Compression Spring)	
12	TA500397	2	Bushing/Machinery	
13	42705B	2	Cable Guild Weldment	
14	9004455	2	U-Bolt 1/4-20UNC x 3 3/4	Grade 5
15	9936	4	Locknut 1/4-20UNC	
16	9005689	2	Hose Holder	

CROSS-FOLD BOOM — Parts

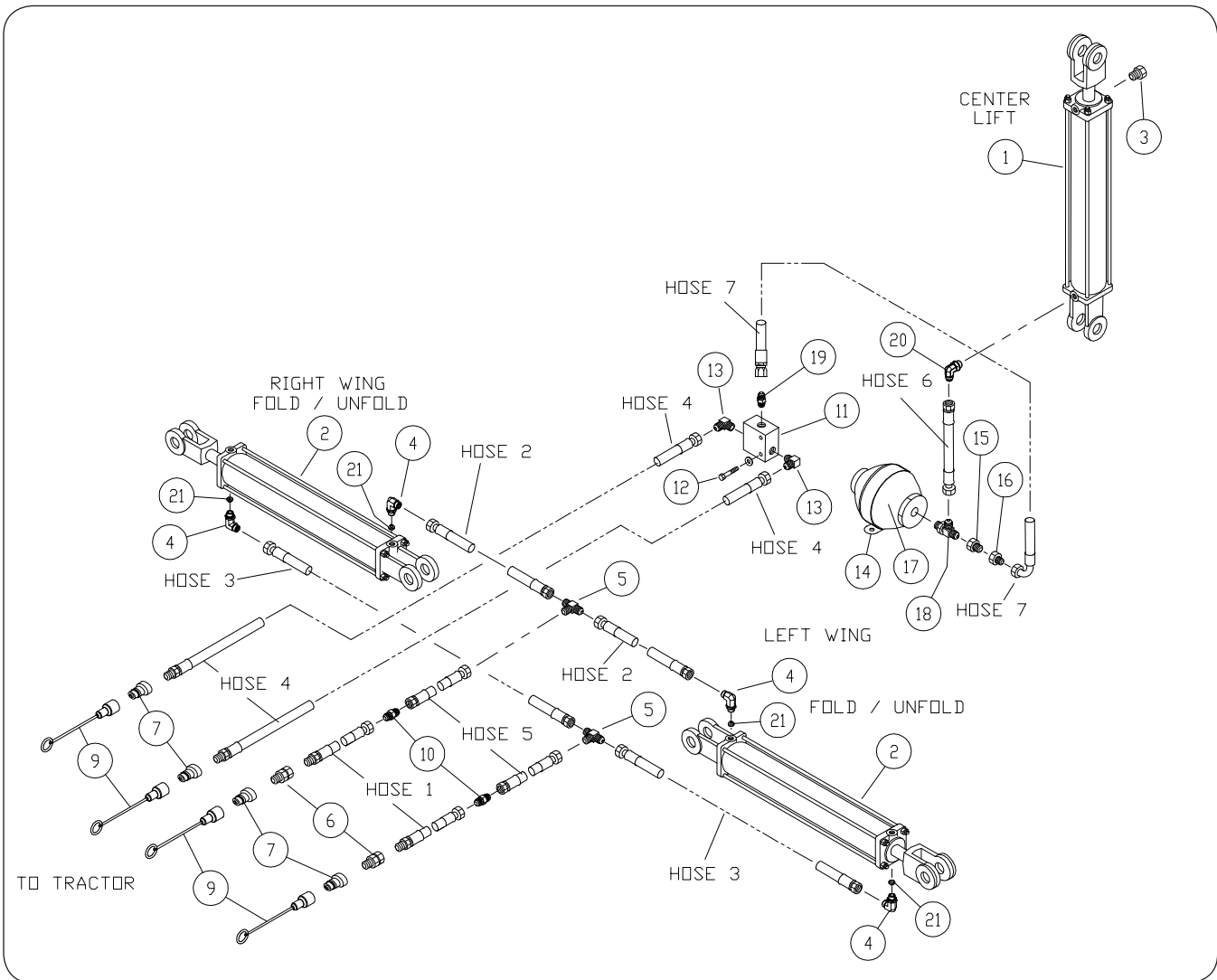
Main Wing - Center Section Cylinder Mounting



ITEM	PART NO.	QTY	DESCRIPTION	NOTES
1A	TA500645	2	Cylinder 2 1/2 x 24	RED LION-2500 PSI
	9003537	2	Seal Kit For 2 1/2 x 24 Cylinder 2500 PSI	
1B	9003531	2	Cylinder 2 1/2 x 24	3000 PSI with Pins
	9003901	2	Seal Kit For 2 1/2 x 24 Cylinder 3000 PSI	
1C	9004043	2	Cylinder 2 1/2 x 24	3000 PSI without Pins
	95388	2	Seal Kit For 2 1/2 x 24 Cylinder 3000 PSI	
	93633	2	Clevis with Nut & Bolt	
2	9004302	4	Pin 1" Dia. w/Cotter Pins	
3				
4	9391-046	8	Cotter Pin 3/16" Dia. x 2	
5				

CROSS-FOLD BOOM — Parts

Hydraulic Hose Kit #TA300696-1 For 550 Trailer Sprayers



CROSS-FOLD BOOM — Parts

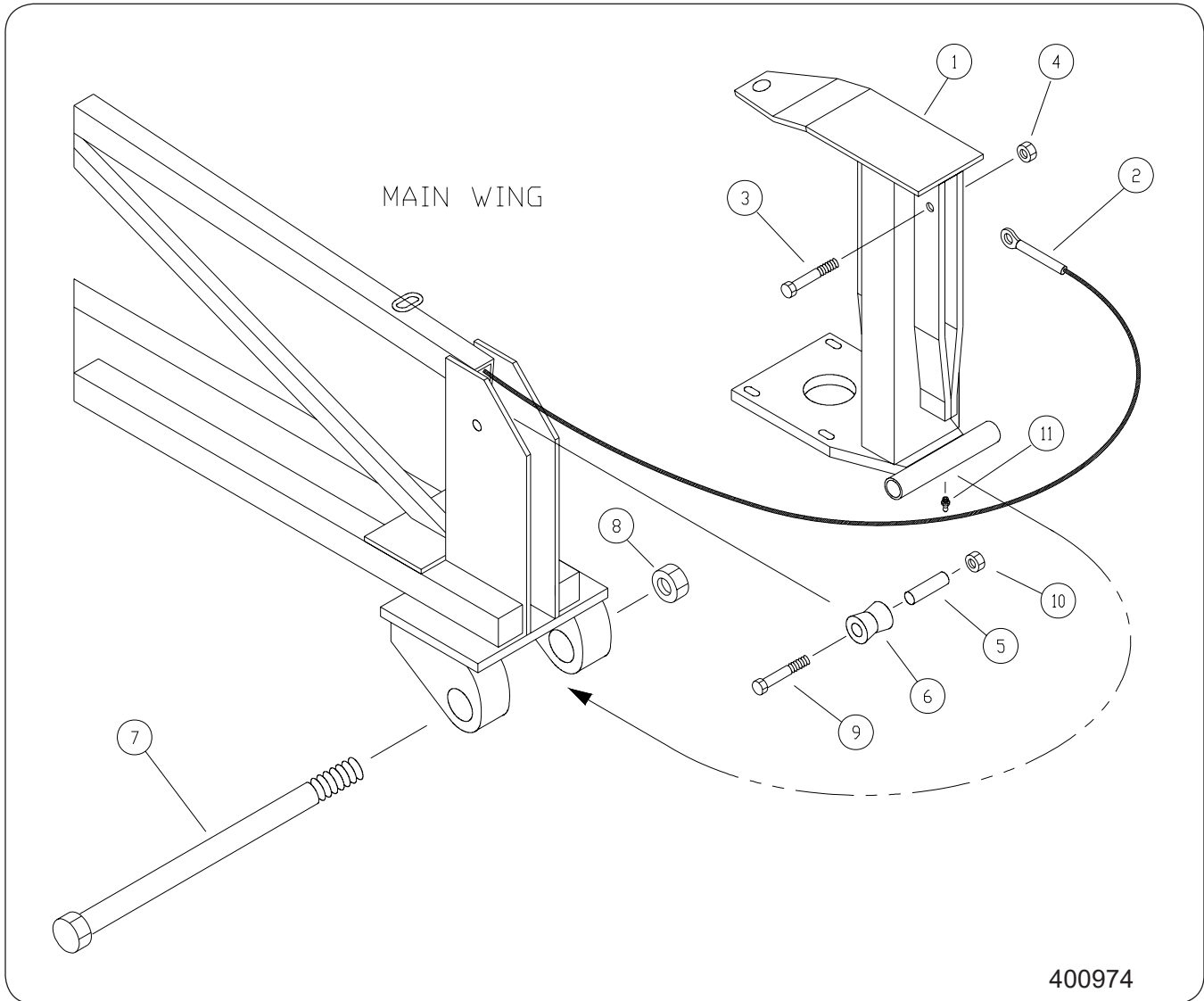
Hydraulic Hose Kit #TA300696-1 For 550 Trailer Sprayers

ITEM	PART NO.	QTY	DESCRIPTION
1	See Pages 3-2 & 3-3	1	Cylinder For Center Lift
2	See Page 3-17	2	Cylinder For Wings
3	TA510542	1	Breather Plug, 9/16-18 O-Ring
4	TA0-924691-0	4	90° Elbow 11/16-18 Flat Face O-Ring Male x 9/16-18 O-Ring Male Boss
5	TA0-934631-0	2	Tee 11/16-16 O-Ring Face Seal Male x 11/16-16 O-Ring Face Seal Male x 11/16-16 O-Ring Face Seal Male
6	TA0-904664-0	2	Reducer/Expander 9/16-18 Female O-Ring x 3/4-16 Male O-Ring Port
7	91383	4	Male Tip Coupling 3/4-16 O-Ring Female (3000psi)
9	91511	4	Dust Cap
10	TA0-934671-0	2	Adapter 9/16-18 JIC Male x 9/16-18 JIC Male
11	9003990	1	Pilot Operated Check Valve
12	9390-034	2	Capscrew 5/16-18UNC x 2 (Grade 5)
	9405-070	2	Flat Washer 5/16
13	97445	2	90° Elbow 9/16-18 JIC Male x 9/16-18 O-Ring Male
14	400665B	1	Accumulator Strap
15	9003065	1	Reducer 3/4-16 JIC Female x 9/16-18 JIC Male
16	9003303	1	Restrictor 9/16-18 JIC Female x 9/16-18 JIC Male w/ .045 Restrictor
17	403558	-	Accumulator Kit (Includes Items 14, 15, 16, 17, 18, 20 & Hose #6)
	9003796	1	Accumulator (Pre-Charged to 400psi)
18	93588	1	Tee 3/4-16 JIC Male x 3/4-16 O-Ring Male x 3/4-16 JIC Male
19	9001495	1	Adapter 9/16-18 JIC Male x 9/16-18 O-Ring Male
20	9863	1	90° Elbow 3/4-16 JIC Male x 3/4-16 O-Ring Male
21	TA510526	4	Restrictor Plug

HOSE	PART NO.	DESCRIPTION
H1	TA500721	Hose 1/4 x 294 (9/16-18 O-Ring Male x 11/16-18 O-Ring Female) 3000psi
	TA500715	Hose 1/4 x 246 (9/16-18 O-Ring Male x 9/16-18 O-Ring Male) 3000psi
H2	TA500723	Hose 1/4 x 23 (11/16-18 O-Ring Female x 11/16-18 O-Ring Female) 3000psi
H3	TA500724	Hose 1/4 x 51 (11/16-18 O-Ring Female x 11/16-18 O-Ring Female) 3000psi
H4	9003991	Hose 3/8 x 18 (3/4-16 O-Ring Male x 9/16-18 JIC Female) 3000psi
H5	TA0-944632-0	Hose 1/4 x 120 (11/16-18 O-Ring Female x 11/16-18 O-Ring Female) 3000psi
H6	94752	Hose 1/2 x 16 3/4 (3/4-16 JIC Female x 3/4-16 JIC Female) 3000psi
H7	9003992	Hose 3/8 x 265 (90° Elbow 9/16-18 JIC Female x 9/16-18 JIC Female) 3000psi

CROSS-FOLD BOOM — Parts

Main Wing — Breakaway Assembly



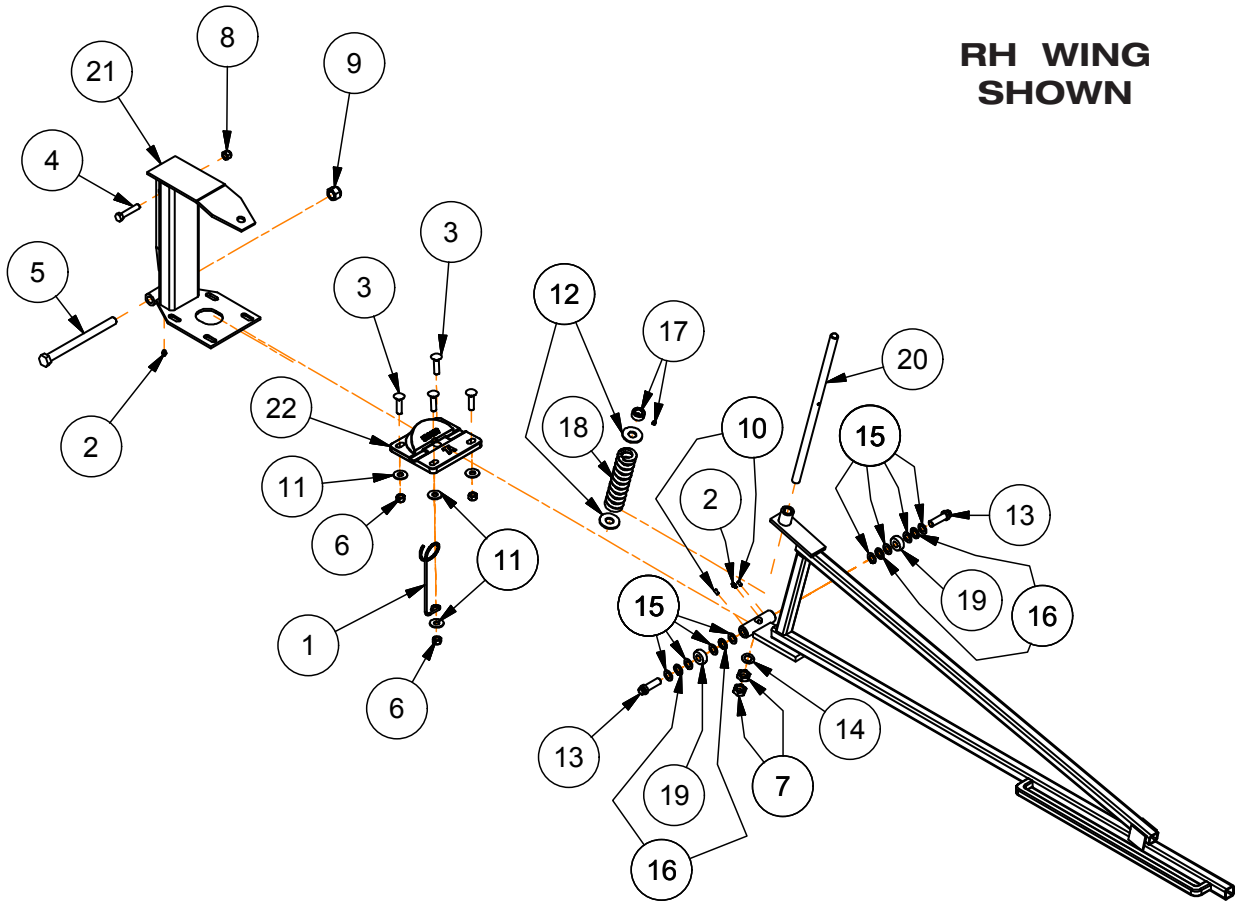
CROSS-FOLD BOOM — Parts**Main Wing — Breakaway Assembly**

ITEM	PART NO.	QTY	DESCRIPTION
1	TA540244B	2	Breakaway
2	41397	2	Boom Cable 3/8" Dia. x 186 1/2
	41400		Boom Cable Replacement Kit (Includes Two 3/8" x 186 1/2" Cables To Replace 1/4" Cable)
3	9390-105	2	Capscrew 1/2-13UNC x 2 1/2
4	9398-016	2	Elastic Stop Nut 1/2-13UNC
5	403715	2	Bronze Bushing .5" OD x .375" ID x 1 1/2
	TA522513		Bronze Bushing .6875" OD x .375" ID x 1 1/2
6	403716	2	Cable Wheel/Roller 2" OD x 17/32" ID
	TA522512		Cable Wheel/Roller 2" OD x 23/32" ID
7	9390-687	2	Capscrew 3/4-10UNC x 9 1/2
8	9398-021	2	Elastic Stop Nut 3/4-10UNC
9	9390-063	2	Capscrew 3/8-16UNC x 3
10	9398-012	2	Elastic Stop Nut 3/8-16UNC
11	91160	2	Grease Zerk 1/4-28

CROSS-FOLD BOOM — Parts

End Wing — Breakaway Assembly

RH WING
SHOWN

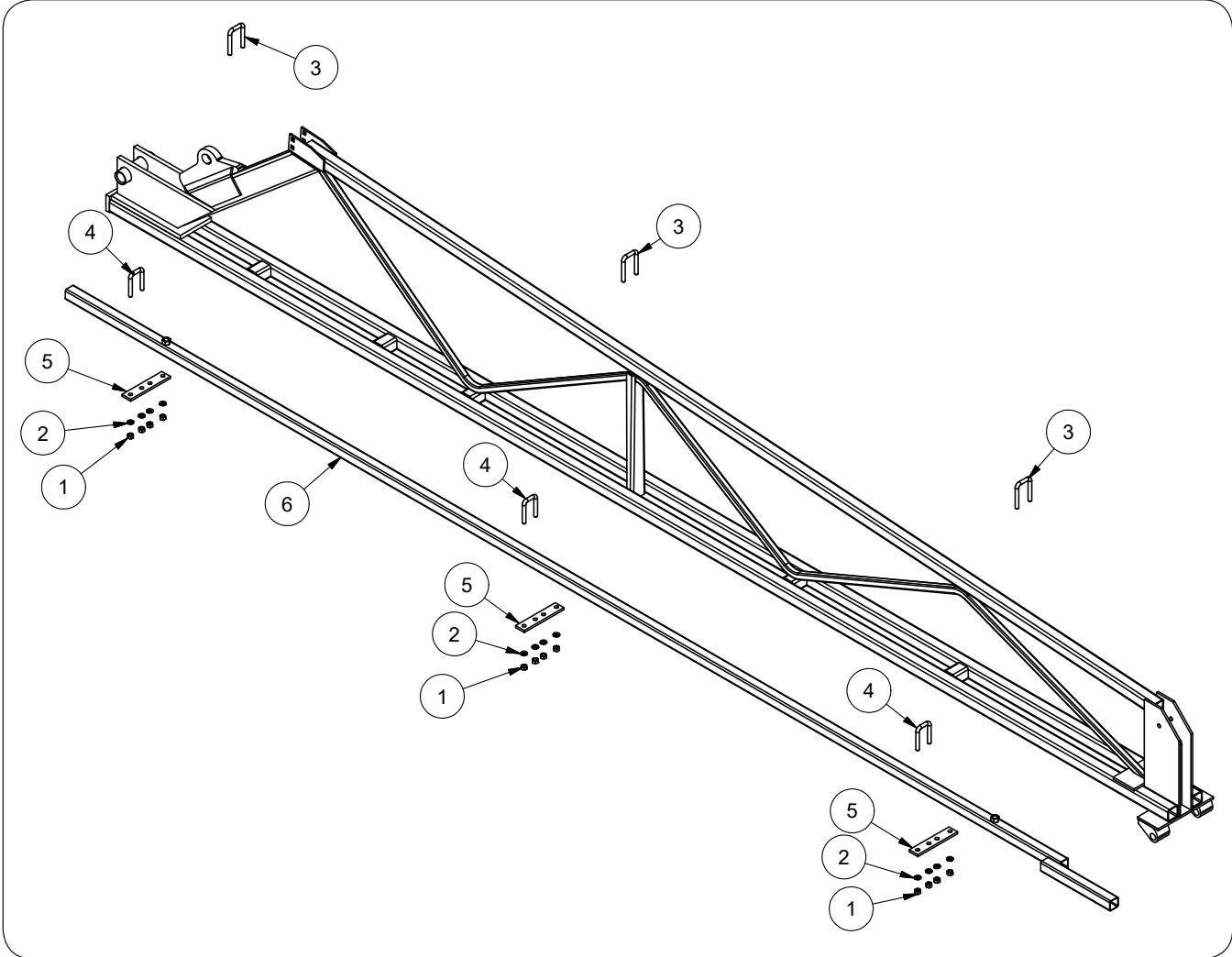


CROSS-FOLD BOOM — Parts**End Wing — Breakaway Assembly**

ITEM	PART NO.	QTY	DESCRIPTION
1	9004602	2	Hose Holder
2	91160	4	Zerk
3	9388-106	8	Carriage Bolt 1/2-13UNC x 2 (Grade 5)
4	9390-105	2	Capscrew 1/2-13UNC x 2 1/2 (Grade 5)
5	9390-687	2	Capscrew 3/4-10UNC x 9 1/2 (Grade 5)
6	9800	10	Locknut 1/2-13UNC
7	9395-016	4	Hex Jam Nut 3/4-10UNC
8	9398-016	2	Elastic Stop Nut 1/2-13UNC
9	9398-021	2	Elastic Stop Nut 3/4-10UNC
10	9399-060	4	Set Screw 1/4-20UNC x 1/2 Cup Point/Hex Socket
11	9405-088	12	Flat Washer 1/2" USS
12	9405-106	4	Flat Washer 3/4" USS
13	TA500197	4	12 Point Capscrew 5/8-11UNC x 2 5/8 (Grade 8)
14	TA500309	2	Machinery Bushing 1 1/4 OD x 3/4 ID x .074
15	TA500316	16	Thrust Washer 1 3/32 OD x 5/8 ID x 1/16
16	TA500321	8	Thrust Bearing 1 1/8 OD x 5/8 ID x 1/16
17	TA500689	2	Collar 1 1/4 OD x 3/4 ID x 9/16 w/Set Screw
	9399-069	-	Set Screw 5/16-18UNC x 1/4
18	TA510013	2	Breakaway Spring
19	TA510026	4	5/8" Hardened Wheel
20	TA522498	2	Shaft 3/4" Dia. x 21 1/4
21	TA540244B	2	Breakaway Weldment
22	TA580030B	2	Pivot Plate

CROSS-FOLD BOOM — Parts

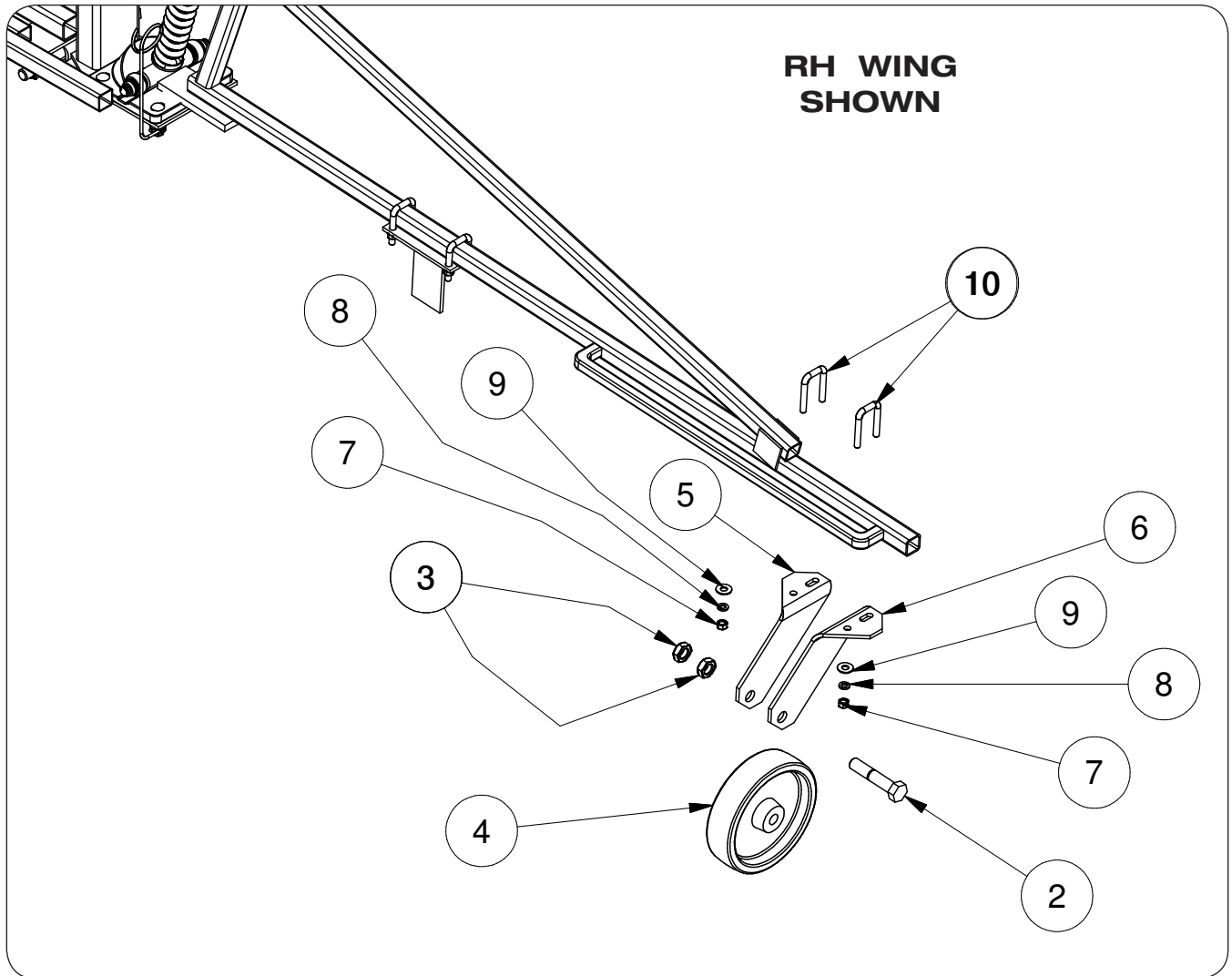
Main Wing Nozzle Tube Mounting



ITEM	PART NO.	QTY	DESCRIPTION
1	9394-006	24	Hex Nut 3/8-16UNC (Grade 5)
2	9404-021	24	Lock Washer 3/8
3	TA510036	6	U-Bolt 3/8-16UNC x 2 3/4
4	TA510072	6	U-Bolt 3/8-16UNC x 2 1/2
5	TA522030B	6	Nozzle Mounting Bracket Plate
6	TA540427B	2	Nozzle Mounting Tube Weldment
7	9000117	A/R	Tube End Plugs (Not Shown)

CROSS-FOLD BOOM — Parts

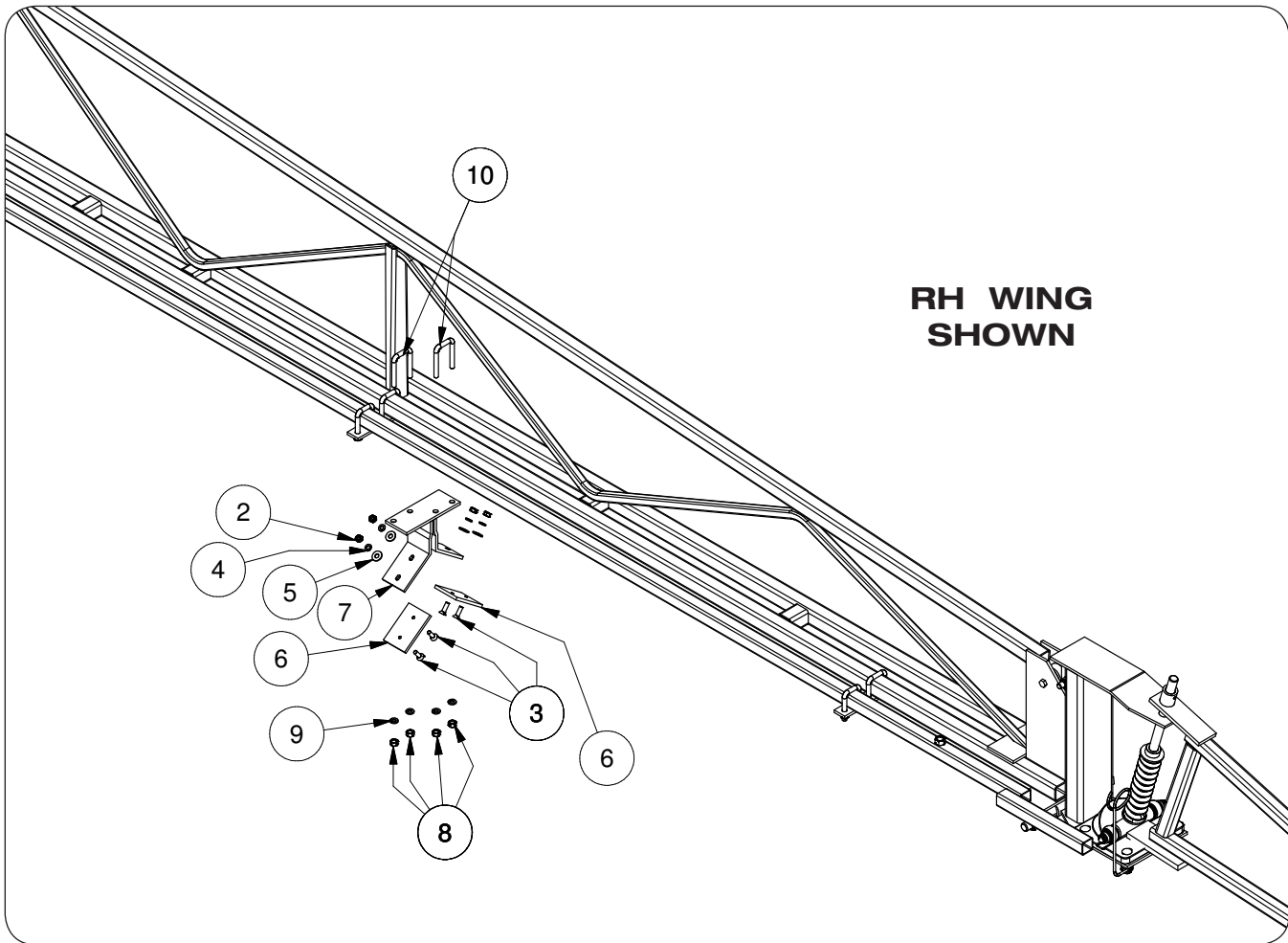
Skid Wheel Mounting



ITEM	PART NO.	QTY	DESCRIPTION
1	403091	2	Skid Wheel Assembly
2	900900-152	2	Capscrew 3/4-10UNC x 3 3/4 (Stainless Steel)
3	900911-016	4	Hex Jam Nut 3/4-10UNC (Stainless Steel)
4	TA510232	2	8" Poly Skid Wheel
5	TA522038B	2	RH Wheel Mounting Plate
6	TA522122B	2	LH Wheel Mounting Plate
7	9394-006	8	Hex Nut 3/8-16UNC (Grade 5)
8	9404-021	8	Lock Washer 3/8
9	9405-076	8	Flat Washer 3/8 (For Units With Over Slotted Holes)
10	TA510072	4	U-Bolt 3/8-16UNC x 2 1/2 (Grade 5)

CROSS-FOLD BOOM — Parts

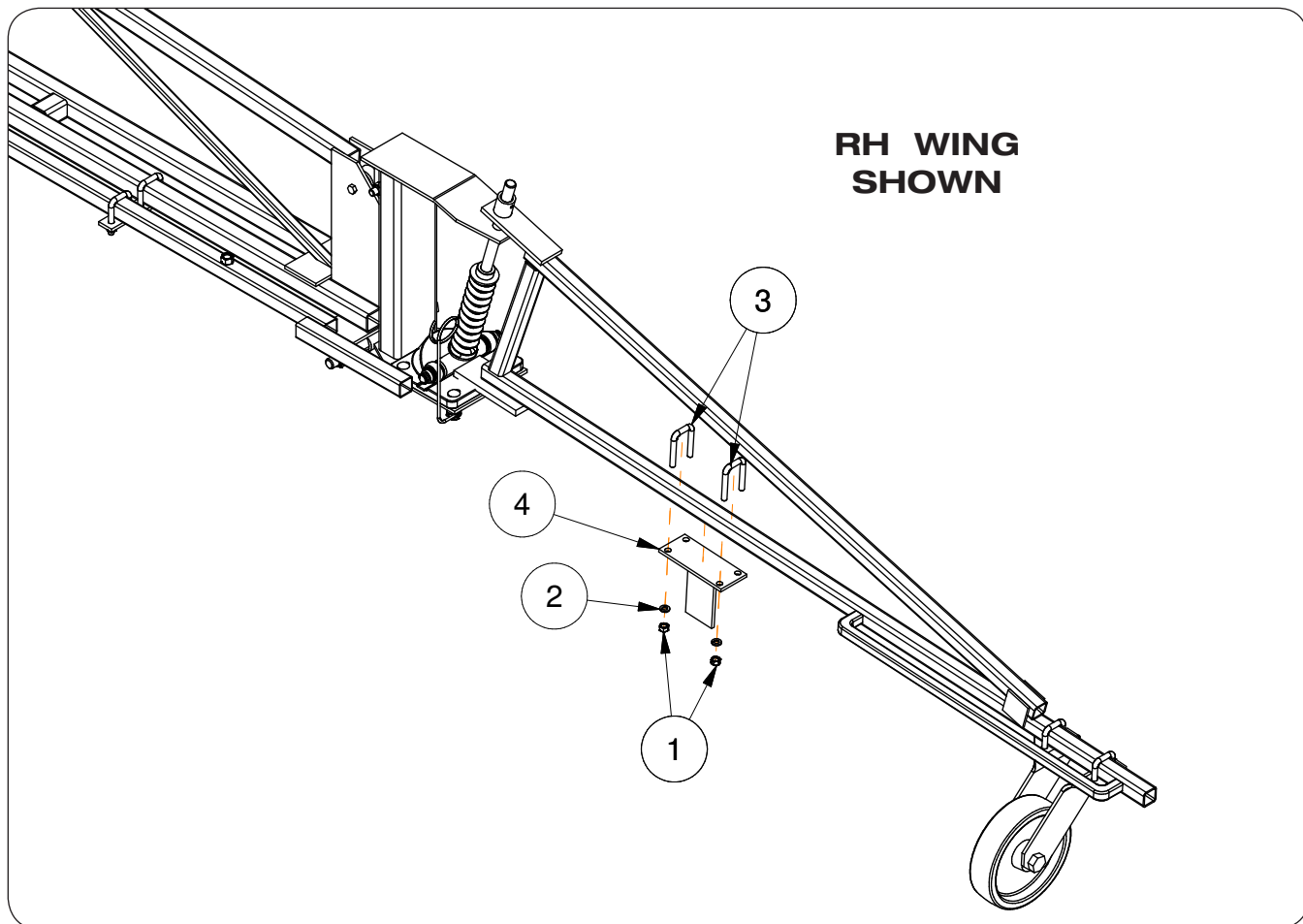
Main Wing Stabilizer Mounting



ITEM	PART NO.	QTY	DESCRIPTION
1	TA580432	2	Main Wing Stabilizer Assembly with Hardware (Includes Items 2-7)
2	9394-004	4	Hex Nut 5/16-18UNC (Grade 5)
3	903171-660	4	Flat Head 5/16-18UNC x 1 Slotted Machine Screw
4	9404-019	4	Lock Washer 5/16
5	9405-070	4	Flat Washer 5/16
6	TA522268-1	2	Poly End Wing Guide Pad
7	TA540294B	1	Main Wing Holder Weldment
8	9394-006	8	Hex Nut 3/8-16UNC (Grade 5)
9	9404-021	8	Lock Washer 3/8
10	TA510036	4	U-Bolt 3/8-16UNC x 2 3/4

CROSS-FOLD BOOM — Parts

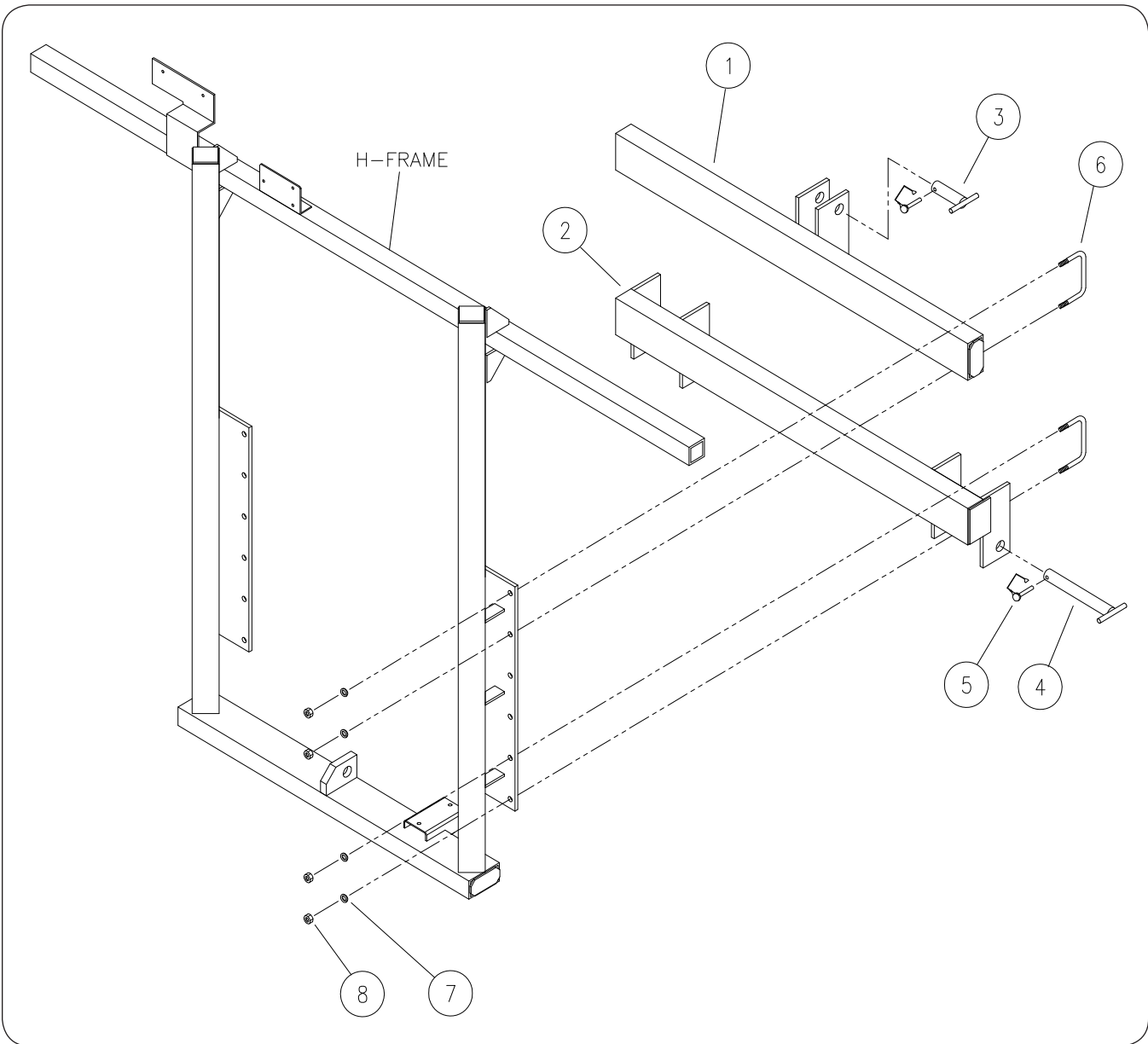
End Wing Rest Mounting



ITEM	PART NO.	QTY	DESCRIPTION
1	9394-006	8	Hex Nut 3/8-16UNC (Grade 5)
2	9404-021	8	Lock Washer 3/8
3	TA510072	4	U-Bolt 3/8-16UNC x 2 1/2
4	TA540293B	2	End Stabilizer Weldment

CROSS-FOLD BOOM — Parts

Optional 3-Point Attachment with H-Frame & Glider



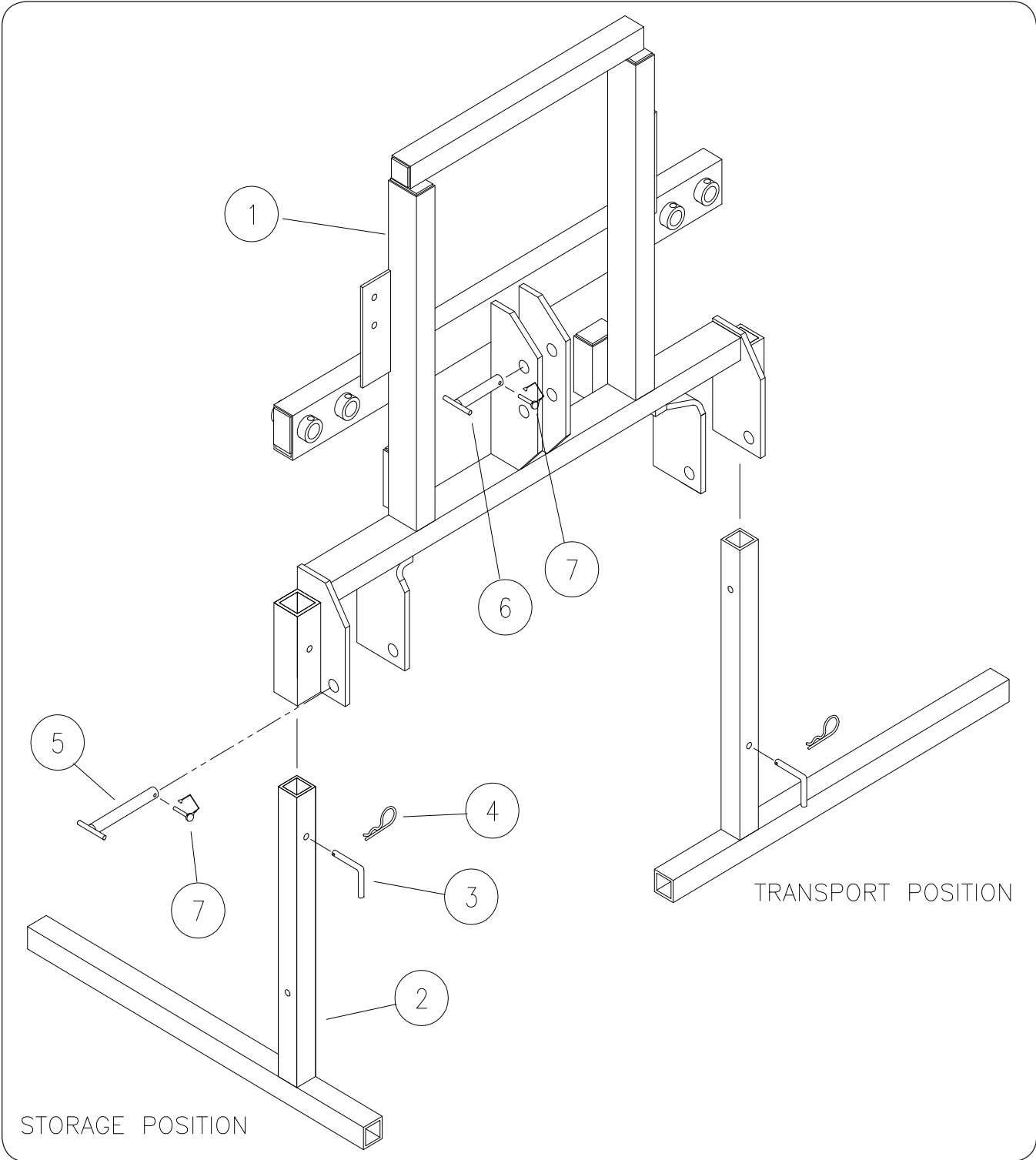
CROSS-FOLD BOOM — Parts

Optional 3-Point Attachment with H-Frame & Glider

ITEM	PART NO.	QTY	DESCRIPTION
1	TA580093B	1	3-Point Center Attachment Weldment =Black=
2	TA580095B	1	3-Point Side Attachment Weldment =Black=
3	TA540139	1	Top Tee Pin Weldment
4	TA540271	2	Pin Tee Weldment
5	94652	3	Lynch Pin 3/8" Dia. x 1 1/2
6	TA510000	4	U-Bolt 1/2-13UNC x 4.5 c/c
7	9404-025	8	Lock Washer 1/2
8	9394-010	8	Hex Nut 1/2-13UNC

CROSS-FOLD BOOM — Parts

Optional 3-Point Attachment without H-Frame & Glider



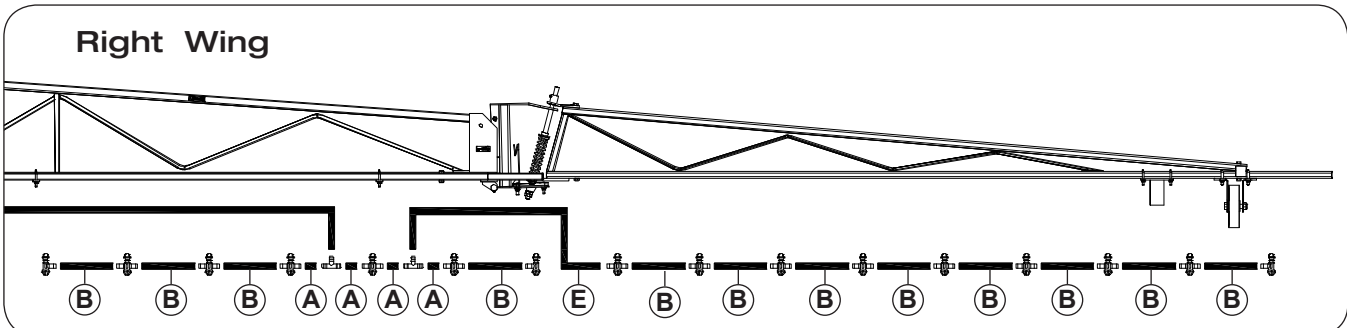
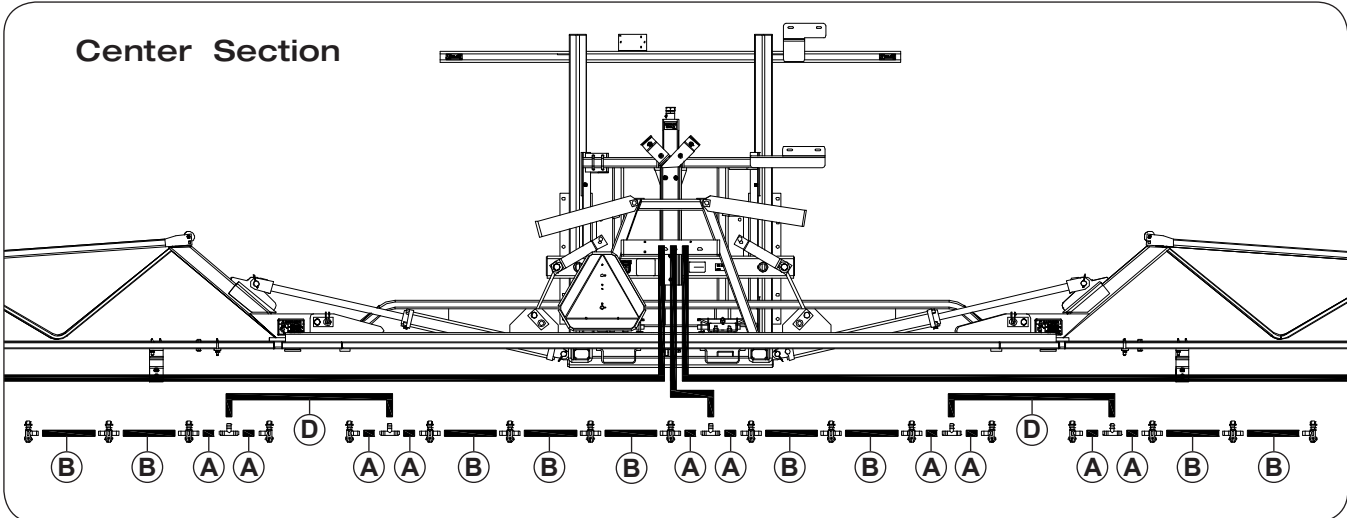
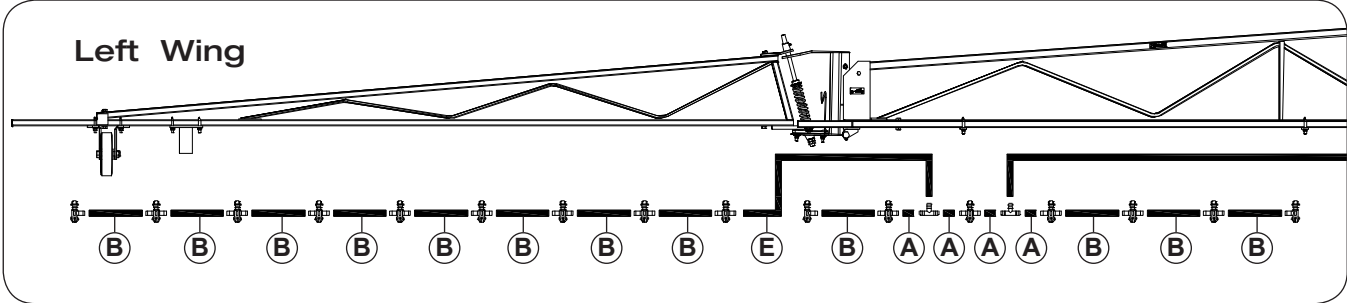
CROSS-FOLD BOOM — Parts

Optional 3-Point Attachment without H-Frame & Glider

ITEM	PART NO.	QTY	DESCRIPTION
1	TA540422B	1	60' X-Fold 3-Point Attachment
2	TA540266B	2	60' X-Fold 3-Point Stand
3	TA522658	2	Stand Pin
4	TA8B90	2	Hairpin Cotter .08" Dia. x 1 5/8
5	TA540271	2	Pin Tee Weldment
6	TA540139	1	Top Tee Pin Weldment
7	94652	3	Lynch Pin 3/8" Dia. x 1 1/2

CROSS-FOLD BOOM — Parts

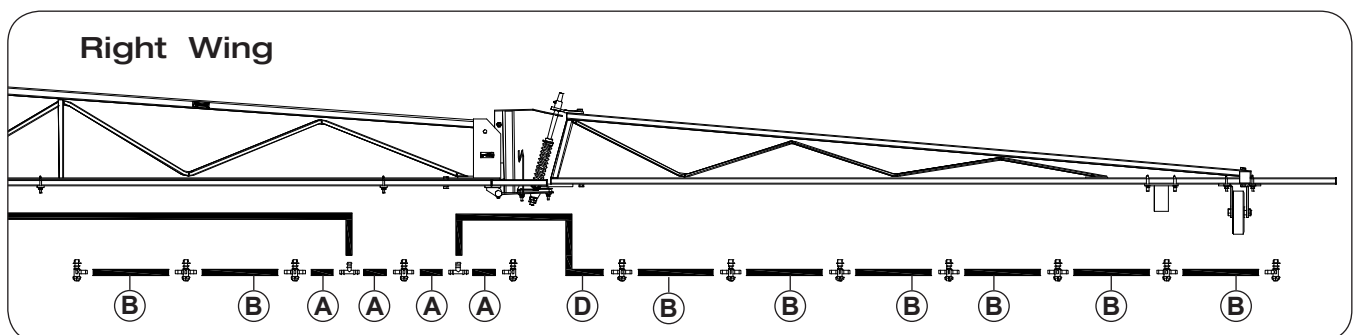
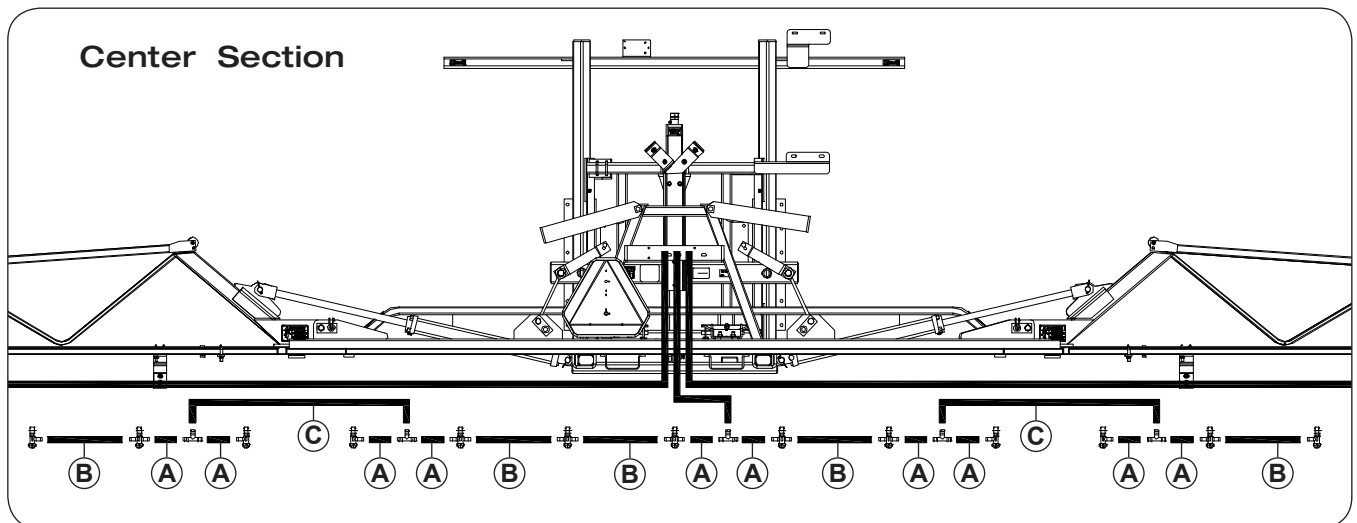
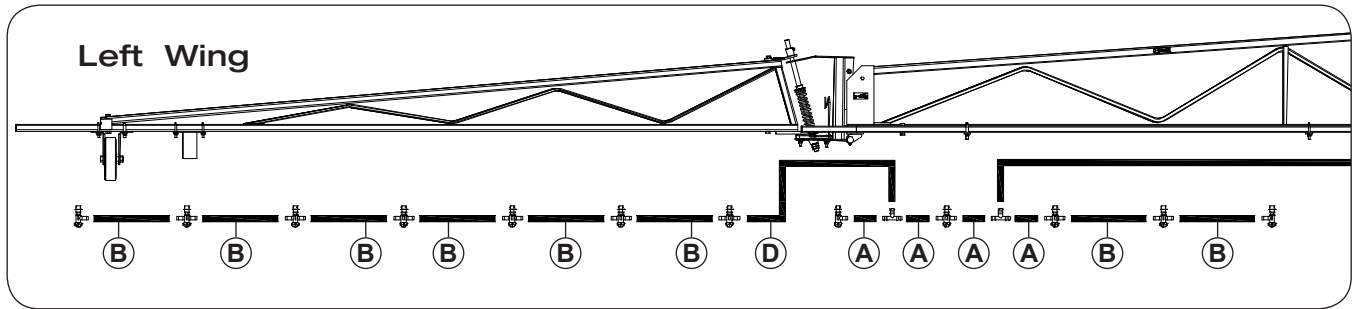
60' Boom Line Plumbing - 3 Section 15" Boom Kit










ITEM	PART NO.	QTY.	DESCRIPTION	NOTE
A	TA806250	18	6 3/4" EPDM Hose	Specify Length in Feet
B		33	14" EPDM Hose	
D		2	36" EPDM Hose	
E		2	51" EPDM Hose	
	TA886010	12	90° Elbow Body	
	TA886025	37	Tee Body	
	TA814891	9	Hose Barb Tee	
	TA880027	49	Nozzle Clamp 1 1/4"	
	TA800910	113	Hose Clamp SCS12	
	TA885400	Option	Triple Nozzle Elbow	
	TA885410	Option	Triple Nozzle Body	

CROSS-FOLD BOOM — Parts

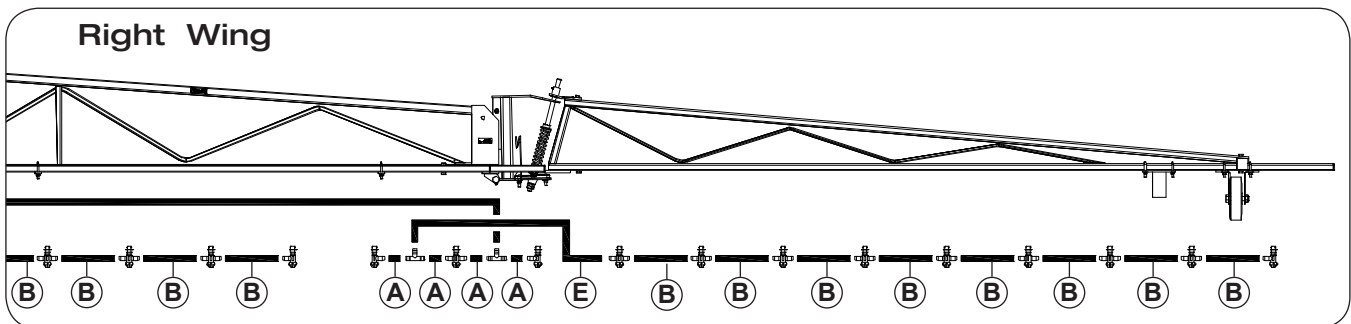
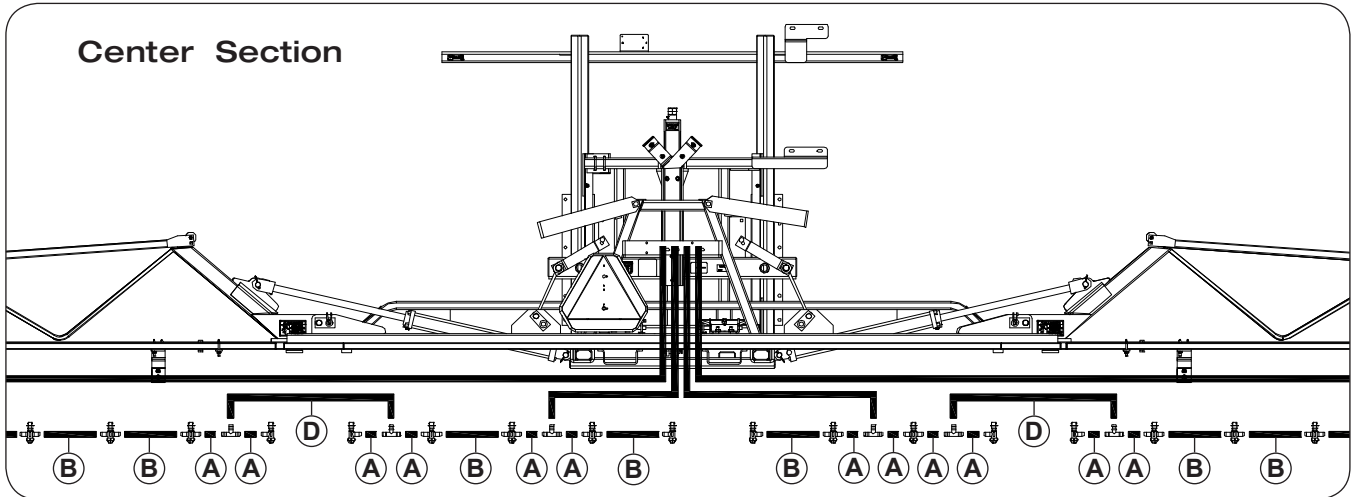
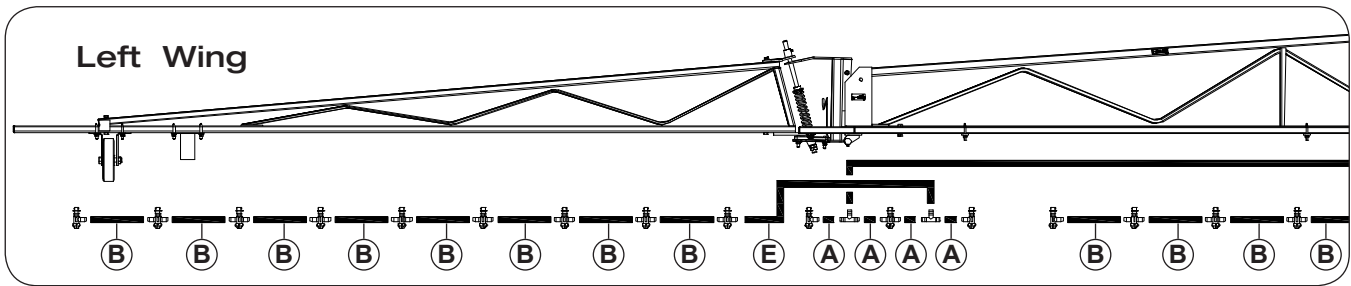
60' Boom Line Plumbing - 3 Section 20" Boom Kit










ITEM	PART NO.	QTY.	DESCRIPTION	NOTE
A	TA806250	18	9 1/2" EPDM Hose	Specify Length in Feet
B		21	19" EPDM Hose	
C		2	40" EPDM Hose	
D		2	46" EPDM Hose	
	TA886010	12	90° Elbow Body	
	TA886025	25	Tee Body	
	TA814891	9	Hose Barb Tee	
	TA880027	37	Nozzle Clamp 1 1/4"	
	TA800910	89	Hose Clamp SCS12	
	TA885400	Option	Triple Nozzle Elbow	
	TA885410	Option	Triple Nozzle Body	

CROSS-FOLD BOOM — Parts

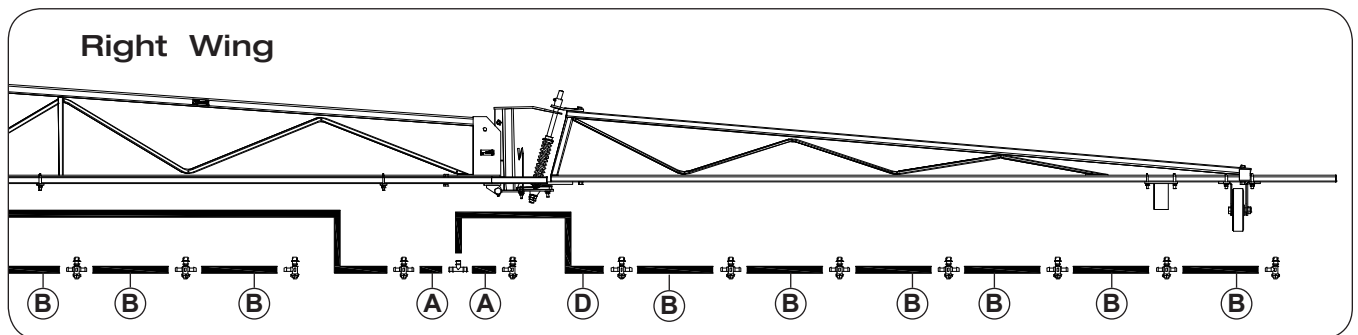
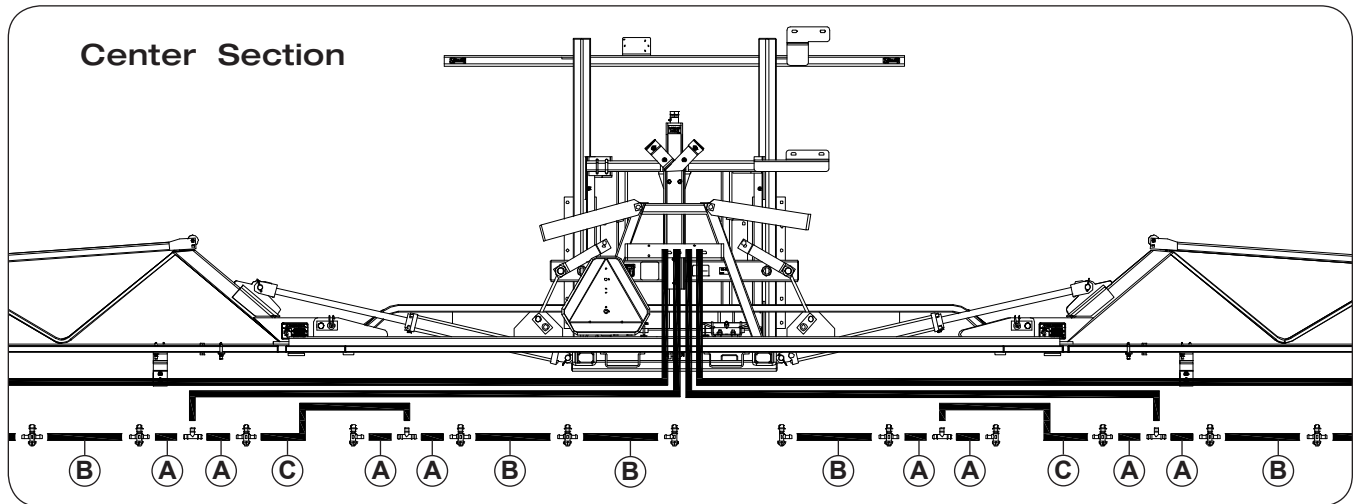
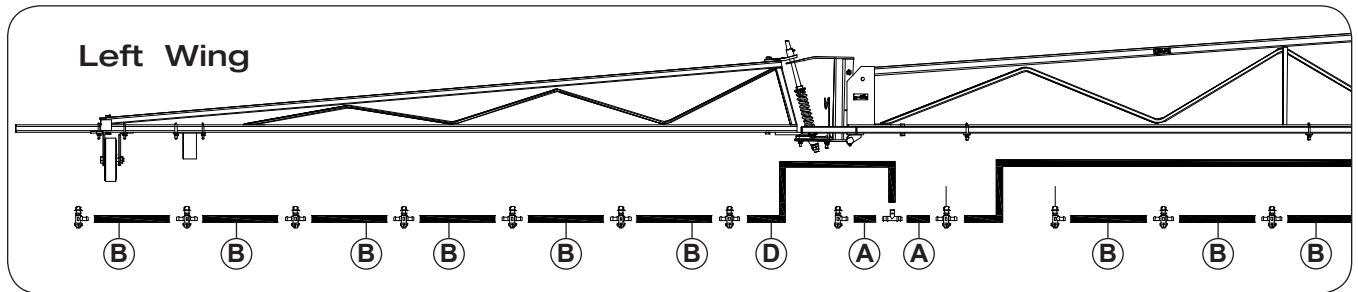
60' Boom Line Plumbing - 4 Section 15" Boom Kit










ITEM	PART NO.	QTY.	DESCRIPTION	NOTE
A	TA806250	20	6 3/4" EPDM Hose	Specify Length in Feet
B		31	14" EPDM Hose	
C		-	17" EPDM Hose	
D		2	36" EPDM Hose	
E		2	51" EPDM Hose	
	TA886010	14	90° Elbow Body	
	TA886025	35	Tee Body	
	TA814891	6	Hose Barb Tee	
	TA880027	49	Nozzle Clamp 1 1/4"	
	TA800910	114	Hose Clamp SCS12	
	TA885400	Option	Triple Nozzle Elbow	
	TA885410	Option	Triple Nozzle Body	

CROSS-FOLD BOOM — Parts

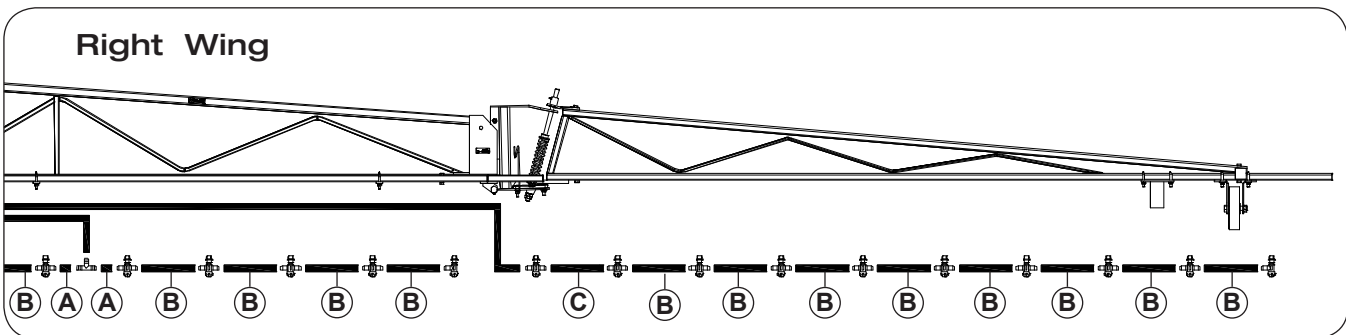
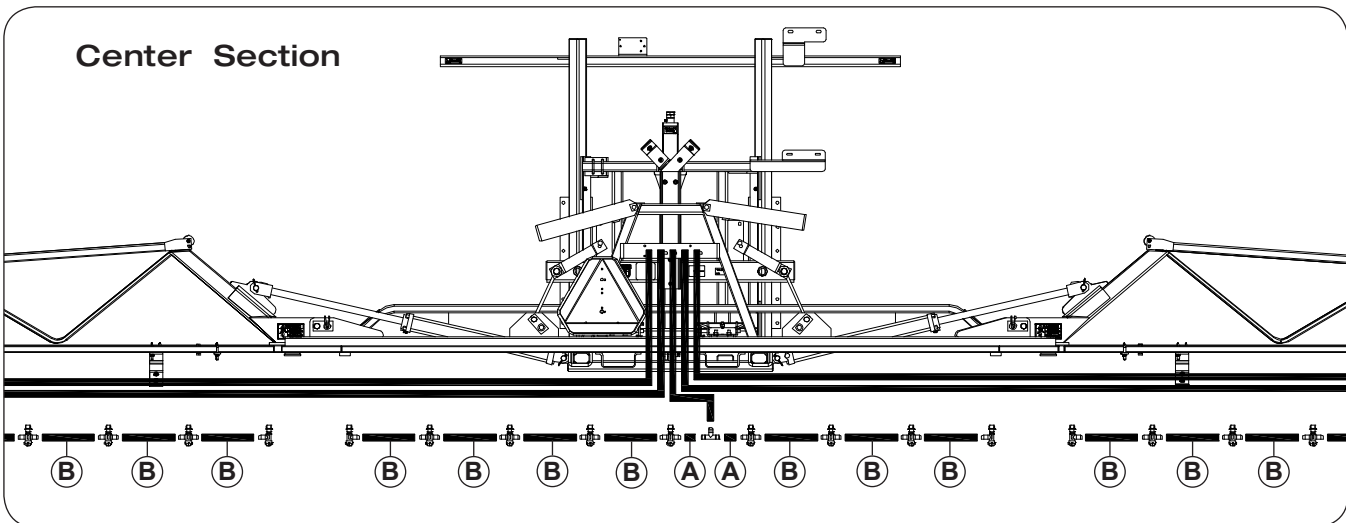
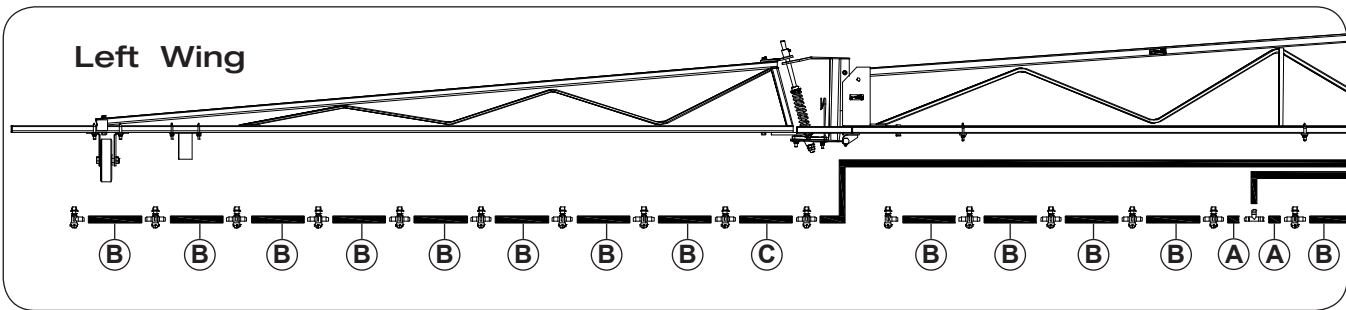
60' Boom Line Plumbing - 4 Section 20" Boom Kit










ITEM	PART NO.	QTY.	DESCRIPTION	NOTE
A	TA806250	8	9 1/2" EPDM Hose	Specify Length in Feet
B		25	19" EPDM Hose	
C		2	40" EPDM Hose	
D		2	46" EPDM Hose	
	TA886010	10	90° Elbow Body	
	TA886025	27	Tee Body	
	TA814891	6	Hose Barb Tee	
	TA880027	37	Nozzle Clamp 1 1/4"	
	TA800910	82	Hose Clamp SCS12	
	TA885400	Option	Triple Nozzle Elbow	
	TA885410	Option	Triple Nozzle Body	

CROSS-FOLD BOOM — Parts

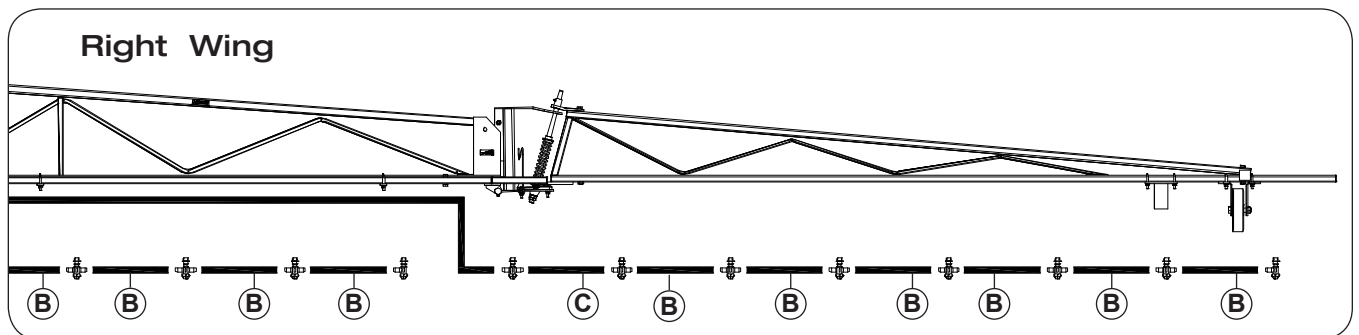
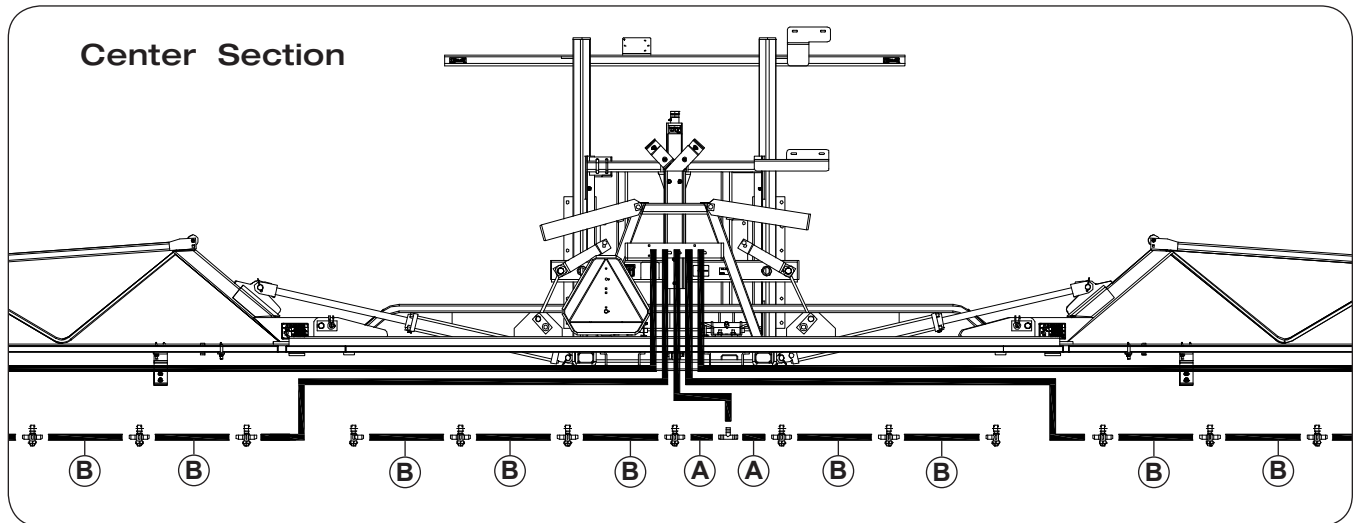
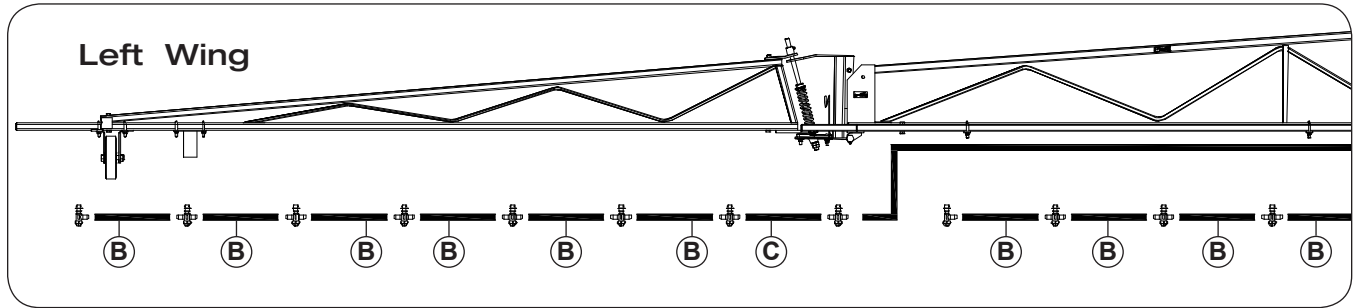
60' Boom Line Plumbing - 5 Section 15" Boom Kit










ITEM	PART NO.	QTY.	DESCRIPTION	NOTE
A	TA806250	6	6 3/4" EPDM Hose	Specify Length in Feet
B		39	14" EPDM Hose	
C		2	51" EPDM Hose	
	TA886010	8	90° Elbow Body	
	TA886025	41	Tee Body	
	TA814891	3	Hose Barb Tee	
	TA880027	49	Nozzle Clamp 1 1/4"	
	TA800910	99	Hose Clamp SCS12	
	TA885400	Option	Triple Nozzle Elbow	
	TA885410	Option	Triple Nozzle Body	

CROSS-FOLD BOOM — Parts

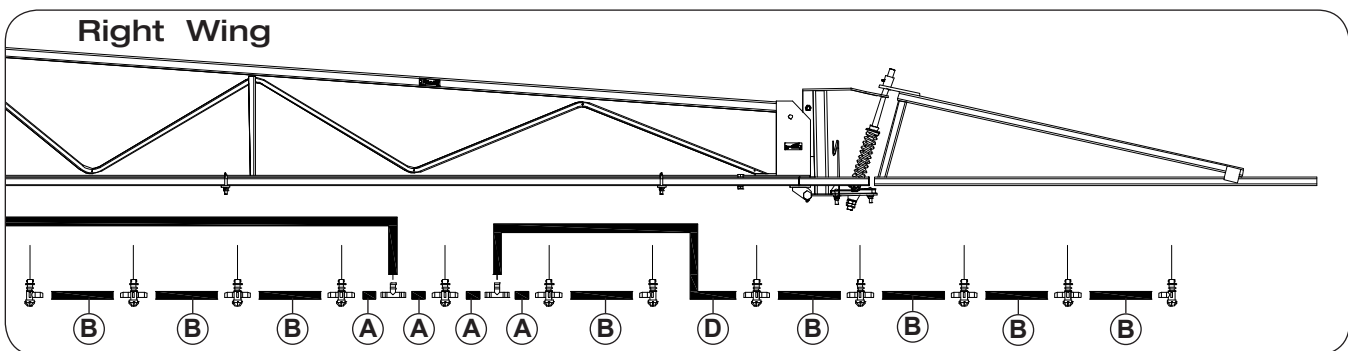
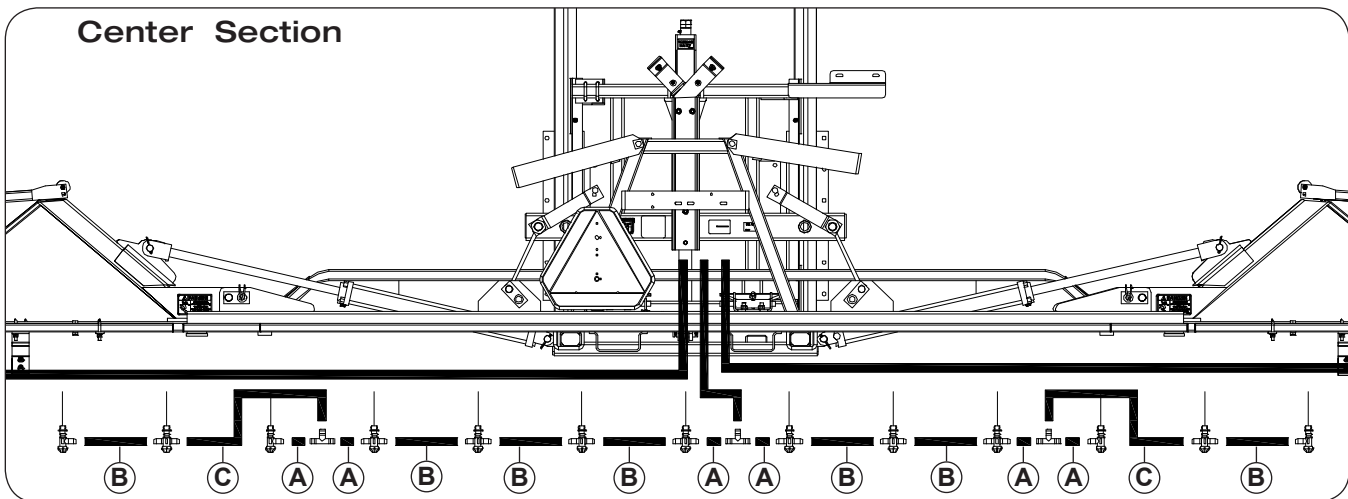
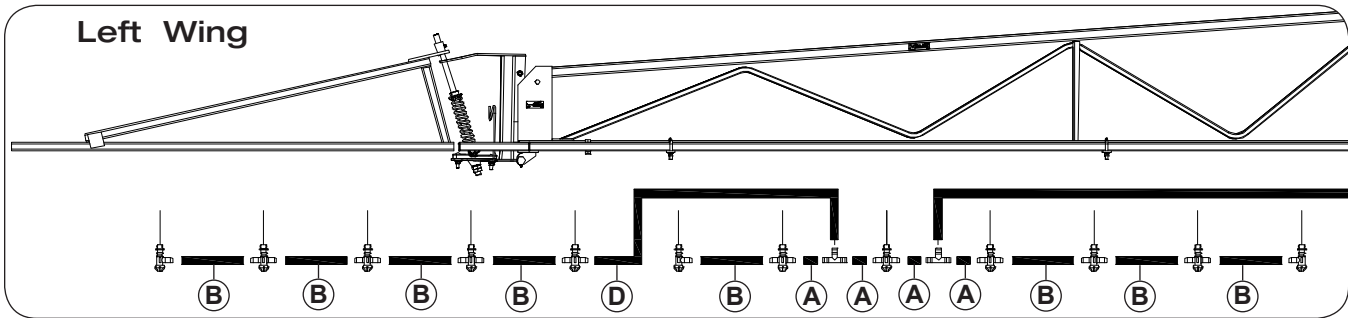
60' Boom Line Plumbing - 5 Section 20" Boom Kit



ITEM	PART NO.	QTY.	DESCRIPTION	NOTE
A	TA806250	2	9 1/2" EPDM Hose	Specify Length in Feet
B		29	19" EPDM Hose	
C		2	41" EPDM Hose	
	TA886010	6	90° Elbow Body	
	TA886025	31	Tee Body	
	TA814891	1	Hose Barb Tee	
	TA880027	37	Nozzle Clamp 1 1/4"	
	TA800910	78	Hose Clamp SCS12	
	TA885400	Option	Triple Nozzle Elbow	
	TA885410	Option	Triple Nozzle Body	

CROSS-FOLD BOOM — Parts

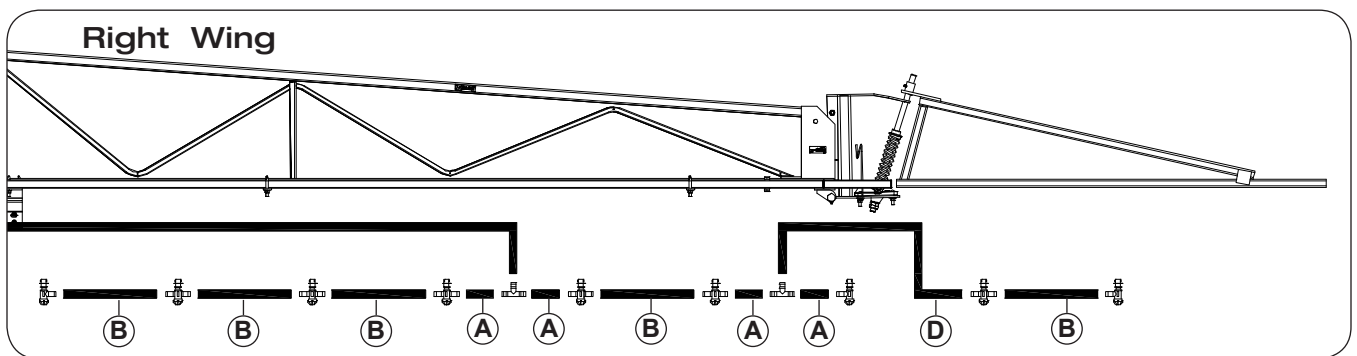
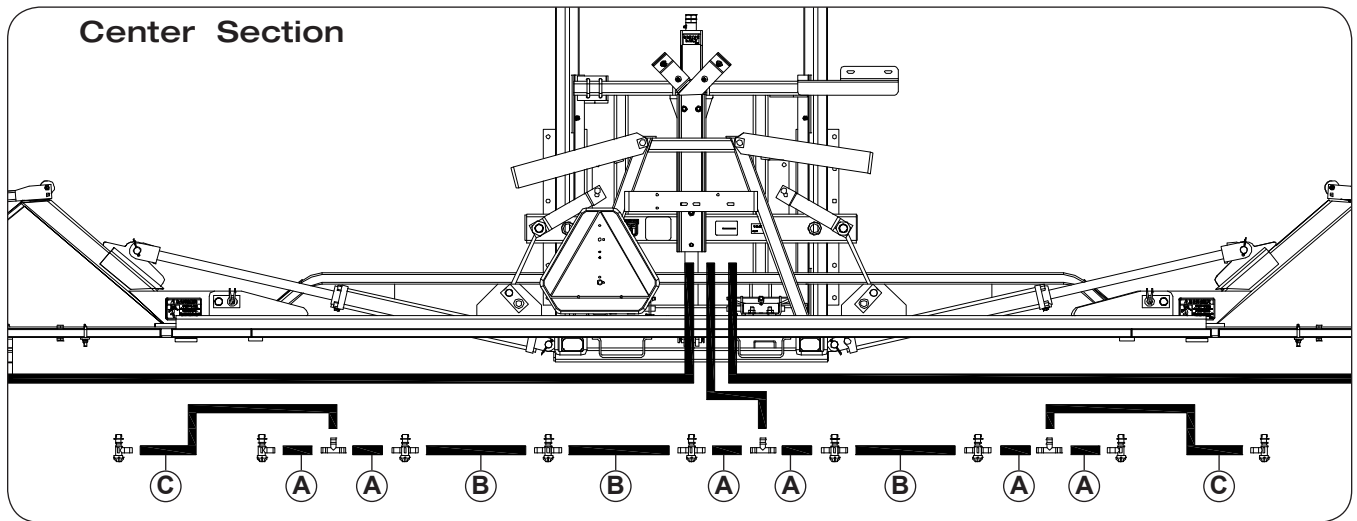
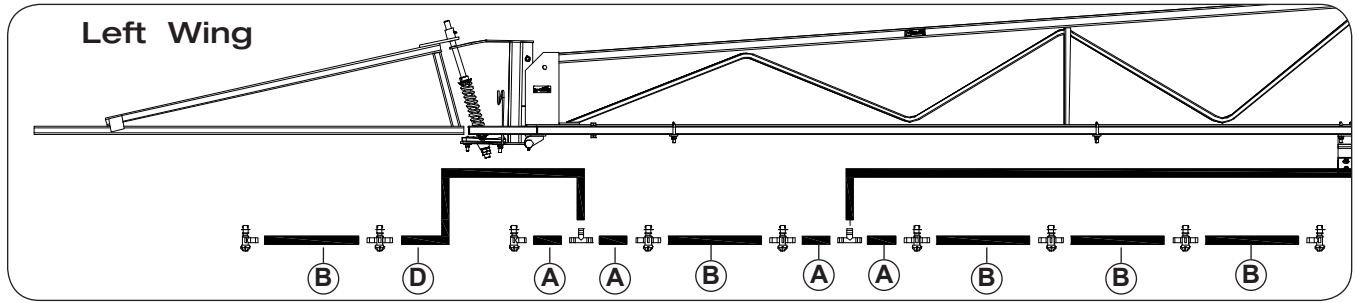
45' Boom Line Plumbing - 3 Section 15" Boom Kit










ITEM	PART NO.	QTY.	DESCRIPTION	NOTE
A	TA806250	14	6 3/4" EPDM Hose	Specify Length in Feet
B		23	14" EPDM Hose	
C		2	40" EPDM Hose	
D		2	51" EPDM Hose	
	TA886010	10	90° Elbow Body	
	TA886025	27	Tee Body	
	TA814891	7	Hose Barb Tee	
	TA880027	37	Nozzle Clamp 1 1/4"	
	TA800910	78	Hose Clamp SCS12	
	TA885400	Option	Triple Nozzle Elbow	
	TA885410	Option	Triple Nozzle Body	

CROSS-FOLD BOOM — Parts

45' Boom Line Plumbing - 3 Section 20" Boom Kit



ITEM	PART NO.	QTY.	DESCRIPTION	NOTE
A	TA806250	10	9 1/2" EPDM Hose	Specify Length in Feet
B		15	19" EPDM Hose	
C		2	40" EPDM Hose	
D		2	46" EPDM Hose	
	TA886010	10	90° Elbow Body	
	TA886025	17	Tee Body	
	TA814891	5	Hose Barb Tee	
	TA880027	27	Nozzle Clamp 1 1/4"	
	TA800910	58	Hose Clamp SCS12	
	TA885400	Option	Triple Nozzle Elbow	
	TA885410	Option	Triple Nozzle Body	



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