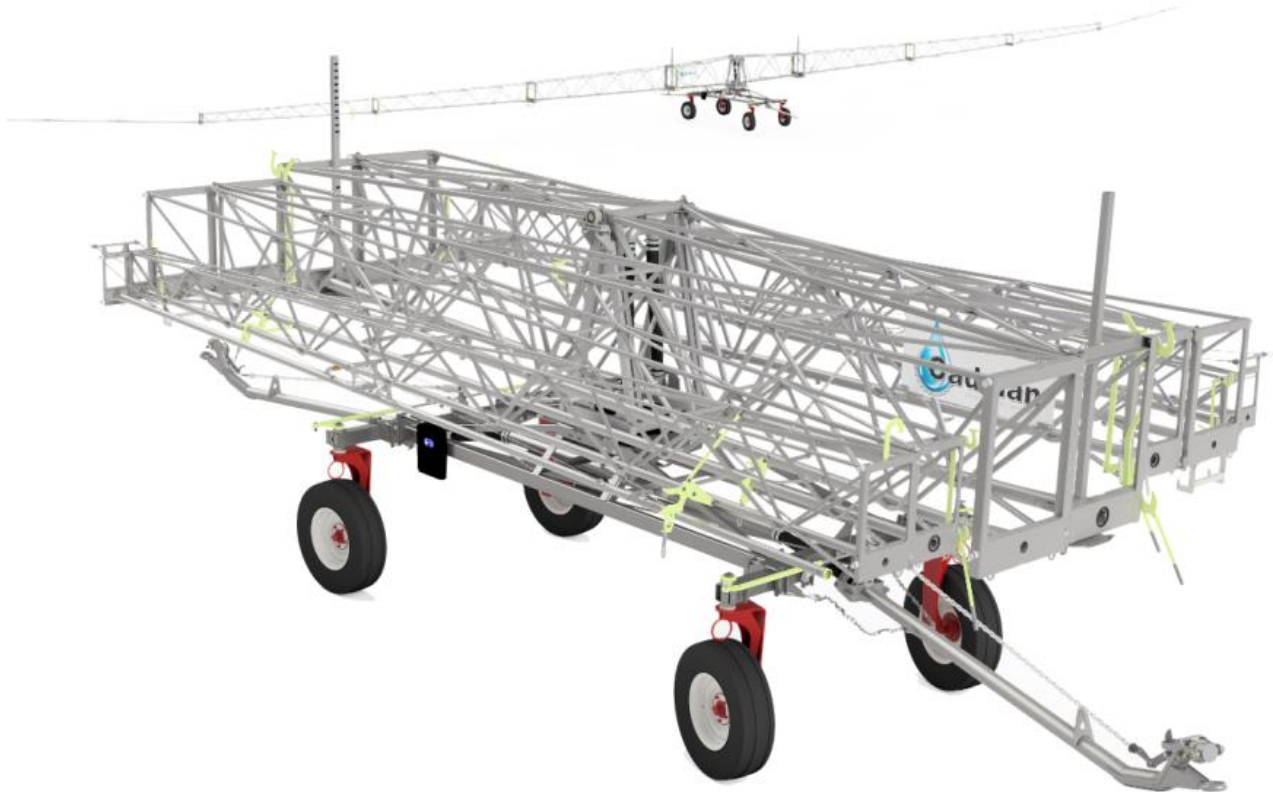




## **64, 72, 76 Meter Irrigation Boom**



## **OPERATING AND PARTS MANUAL 2022 Edition**

**CB-MAN-64**





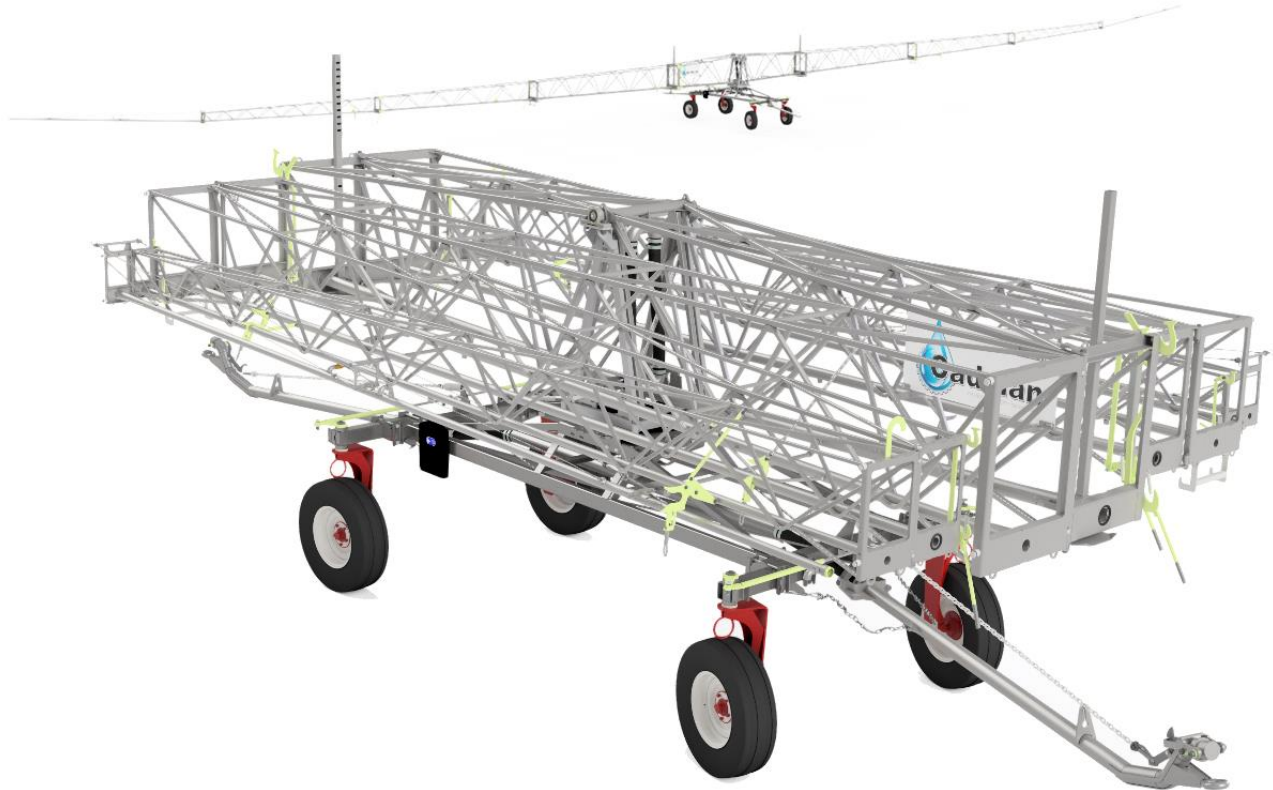
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## Cadman Irrigation Boom

We would like to thank you for purchasing your new **Cadman Irrigation Boom**. You have purchased a product of superior quality that will serve your needs for a long time as long as you follow this manual and safety procedures.



*Figure 1 - 64 Meter Irrigation Boom*

*img-01457*

**BEFORE** operating your new **Cadman Irrigation Boom**, inspect the machine for any damage or parts that may have come loose during shipping. **REPORT ANY DAMAGE TO CADMAN POWER EQUIPMENT LIMITED OR YOUR LOCAL DEALER IMMEDIATELY.**

## Warranty Policy

**CADMAN POWER EQUIPMENT LIMITED** warrants that each machine it manufactures shall be free from defects in materials and workmanship. The terms of this warranty are as follows:

- All components manufactured by **CADMAN POWER EQUIPMENT LIMITED** shall be warranted for a period of one (1) year from the date of delivery, except the frame and hose drum structures which shall be warranted for a period of three (3) years.
- **CADMAN POWER EQUIPMENT LIMITED** makes no warranty whatsoever in regard to tires, engines, and other trade accessories used on its equipment. The customer shall rely solely on the warranties offered (if any) by the respective manufacturer of these trade accessories.

The sole obligation to **CADMAN POWER EQUIPMENT LIMITED** under this warranty is limited to the repair or replacement of any part it manufactured, which, in the judgment of **CADMAN POWER EQUIPMENT LIMITED**, failed under normal and proper use and maintenance due to defective materials or workmanship. All freight charges incurred shall be the sole responsibility of the customer.

**CADMAN POWER EQUIPMENT LIMITED** and its dealers (who are neither authorized nor qualified to undertake any obligations on behalf of **CADMAN POWER EQUIPMENT LIMITED**) **DO NOT**, under any circumstances, accept any responsibility for any losses or costs incurred due to parts failure and/or delays during the parts replacement process.

This warranty will be considered void if any alterations or modifications have been made to the machine without the express written consent of **CADMAN POWER EQUIPMENT LIMITED** outlining the nature and the extent of such modifications. **CADMAN POWER EQUIPMENT LIMITED** will not provide any warranty express or implied to any overdue accounts.

**CADMAN POWER EQUIPMENT LIMITED**, whose policy is one of continuous improvement, reserves the right to change specifications and designs without notice or incurring obligation.

The warranties expressed herein are non-transferable and replace any other warranties, either written or verbal, which may have been given or implied.

## When Applying Liquid Manure

Current and pending laws in agricultural regions of North America change the ways in which the agricultural community needs to manage their liquid animal waste products. As a manufacturer of agricultural equipment, we feel it necessary to make you aware that the municipal, regional and state governing bodies in your area may have created new laws or updated current laws for nutrient handling practices and procedures. The changes in these laws typically target run-off prevention and soil nutrient loading.

**Run off may result from several factors. Some (but not all) of the factors are:**

- Incorrect application
- Difficult application areas containing steep hills or other features that may make run off more likely to happen
- Changes in weather that would allow run off to happen (sudden storms just before or just after applying, ground frost, etc....)

Constant watch must be kept and immediate action taken when needed to prevent run off from happening.

Soil nutrient loading depends on several variables. Some (but not all) of these variables are:

- The type of crop(s) being grown
- The type of soil the crop(s) are growing in
- Nutritional value of what you are applying
- Nutritional needs of the crop(s) and soil they are growing in

Application timing, nutritional value of what you are applying, and the type of soil will determine the intake rate at which liquid may be applied. Soil analysis taken at appropriate times will help you create a correct application plan for your crop(s). In addition; local colleges, universities, and agricultural extension services are a good source of information. They may be able to help you create an application program that will help prevent problems with your application.

**CADMAN POWER EQUIPMENT LIMITED** is unable to provide up-to-date recommendations for the laws you must follow in your area. It is your responsibility to make yourself aware of and follow the law in your area. Please contact your local agricultural representative to obtain the latest information for legal handling and application of nutrient.

## Safety Precautions

Please take the time to read and understand this manual to avoid errors and unnecessary risks. If you have any questions or concerns, please contact **CADMAN POWER EQUIPMENT LIMITED** or your local dealer/distributor.

**FAILURE TO FOLLOW ALL SAFETY INSTRUCTIONS CAN RESULT IN DEATH OR SERIOUS INJURY FOR YOU AND/OR ANY SPECTATORS.**

- **DO NOT** move or operate this machine until you have read and understand these instructions in this manual.
- **NEVER** allow untrained persons to operate this machine.
- **DO NOT** perform service this machine while it is in operation.
- **MAKE SURE** all mechanical and hydraulic tension has been released before attempting any service on the machine.
- **CHECK** all fasteners (nuts and bolts) regularly for tightness.
- **PERFORM REQUIRED MAINTENANCE** as prescribed or as necessary to keep this machine in safe operating condition.
- **KEEP ALL SPECTATORS** at a safe distance.
- **STAY CLEAR** of high pressure supply lines, especially when first pressurizing the system.
- **DO NOT** remove or alter any shielding on this machine.
- **KEEP CLEAR** of all moving parts.
- **NEVER** tow this machine at speeds greater than **6 mph [10 km/h]** and be certain the tow vehicle has adequate braking capacity to maintain safe control at all times.
- **NEVER** tow this machine with the boom loaded with fluid.
- **BE AWARE** of any obstacles (i.e. mail boxes, fence posts, and other equipment) that you may encounter when transporting the machine.
- **REGULAR INSPECTION** of your boom couplings, tubing and gaskets should be a part of your regular set-up routine. Any defective parts **MUST** be replaced or repaired before the machine is put into service.



**This symbol, the safety-alert symbol, indicates a hazard. When you come across the safety-alert symbol in this manual, make sure you fully understand and abide by the given instructions or warnings.**



## Safety Decals

Cadman Power Equipment Limited has determined the potential hazards on your Irrigation Boom and has labeled the machine accordingly. The safety decals on this machine are there to warn operators of potential hazards. Each safety decal on this machine contains a Signal Word Panel which shows the degree of hazard. Definitions of the Signal Words are as noted below.



*Figure 2 - Danger Decal*

*img-00340-A*

- **DANGER** - an immediate, hazardous situation that if not avoided, **WILL RESULT IN DEATH OR SERIOUS INJURY**.



*Figure 3 - Warning Decal*

*img-00340-B*

- **WARNING** - a potentially hazardous situation that if not avoided could result in death or serious injury. This includes hazards that are exposed when guards are removed.



*Figure 4 - Caution Decal*

*img-00340-C*

- **CAUTION** - a potentially hazardous situation that if not avoided may result in minor or moderate injury.

## Safety Decals Continued

- All safety decals must be clean, clear, and easy to read.
- Replace any decal that is not in good condition.
- Replace any missing decals; it is important to double check that all labels are on your machine, especially if you have modified your machine or have had your machine serviced.

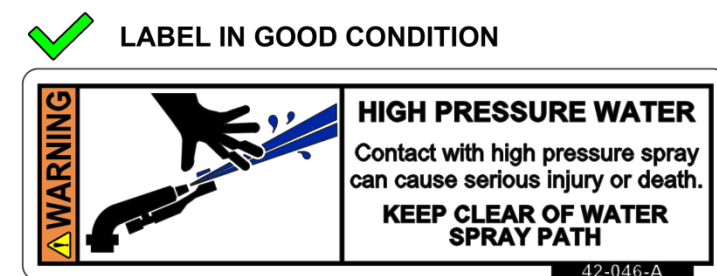
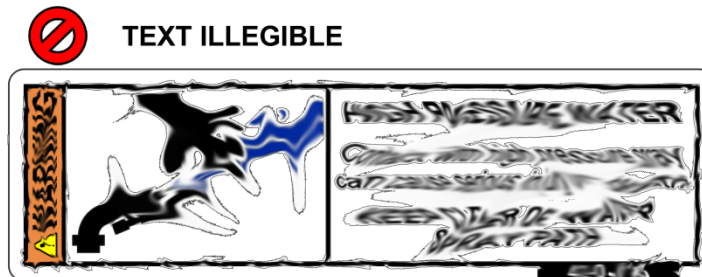


Figure 5 - Replace Decals

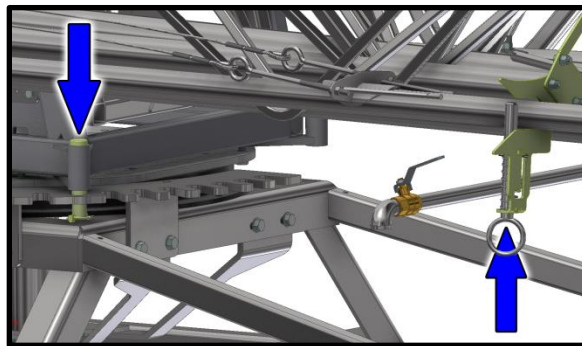
img-00131-B

## Transport

Before transporting your Cadman Irrigation Boom verify the following:

Verify that all locking pins and latches are secure. When transporting the irrigation boom to the adjacent pull no further action is required. If you are moving the boom to an area further away you must secure the boom with ropes and/or straps.

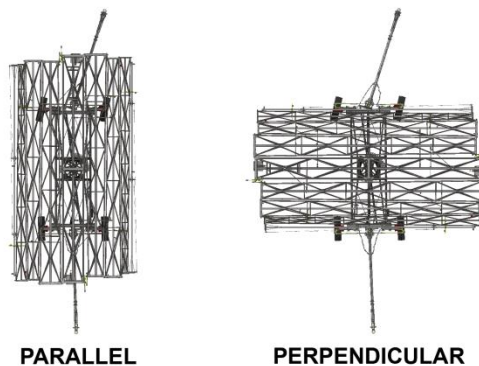
When transporting your irrigation boom on public roads then you need to be aware of and comply with any laws regarding transportation that apply to the area the irrigation boom is being transported.



*Figure 6 - Lock and Pins Engaged*

*img-01458*

When transporting your irrigation boom to an adjacent pull the frame must be either parallel or perpendicular to the boom cart frame.



*Figure 7 - Boom towing orientation*

*img-01459*



**Failing to follow these transport guidelines may result in equipment damage and/or personal injury.**

## Lane Spacing

Set your desired track width by adjusting the wheel spacing on the boom cart frame. Disassemble the steering joint at (A) and loosen both bolt sets at (B) and (C) before sliding the arm to your desired spacing. Loosen the jam nut on the tie-rod and begin to twist to change the tie-rod to an appropriate length to be able to reassemble joint (A). Lastly tighten bolt sets at (B) and (C).

Wheel spacing is adjustable from 60" to 80" with other spacing kits available. Verify bolts are tight after adjusting your track width. Equally adjust the steering tie-rods.

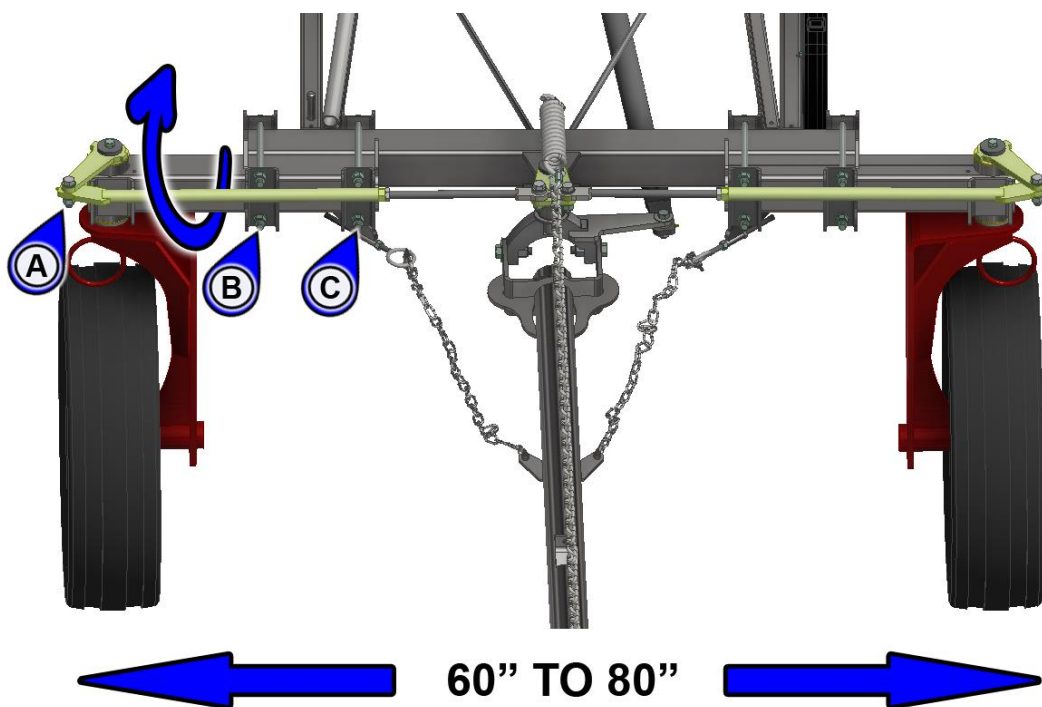


Figure 8 - Lane spacing adjustment

img-01460

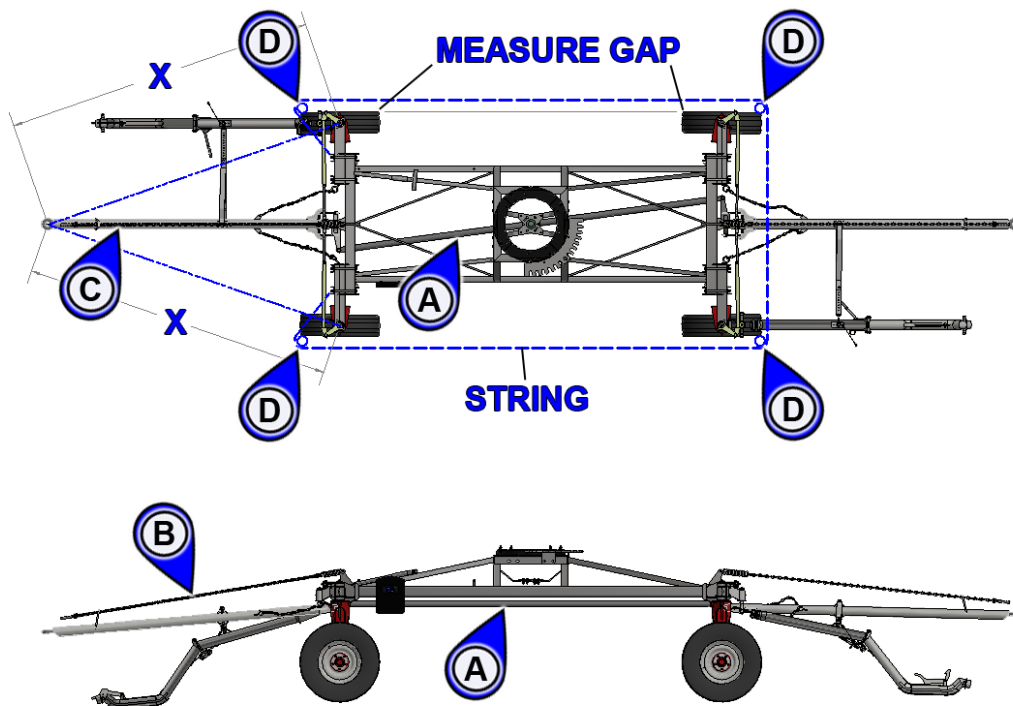


Failing to secure wheels after adjusting spacing will result in an unbalanced irrigation boom that will tip over. This will result in damage to your irrigation boom, and may cause serious injury and/or death.

## Wheel Alignment

It is important to ensure the alignment is true so that the irrigation boom tracks properly. When replacing steering components or changing lane spacing complete this process:

- Ensure the boom is located on a flat surface before checking the wheel alignment.
- Disconnect the center steering bar (A).
- Disconnect/Slacken the tongue chain (B) and place on a stand about 20 inches (500mm) from the ground.
- Ensure the tongues (C) are dimensions (X) are equal for each end.
- Using a string and 1 inch (25mm) spacers (D). Attach the string to the frame. Install a spacer at the widest points of all wheels as shown in image below.
- Measure the gap of the trailing wheel. The dimension should be between 7/8 - 29/32 inch (22-23mm) given 3/32 - 1/8 inch (2-3mm) tow-in. Adjust the tie-rods as required.
- Re-connect the center steering arm, adjusting as required.
- Ensure the water feed and tow bar are parallel.
- Ensure that all fasteners are tightened.

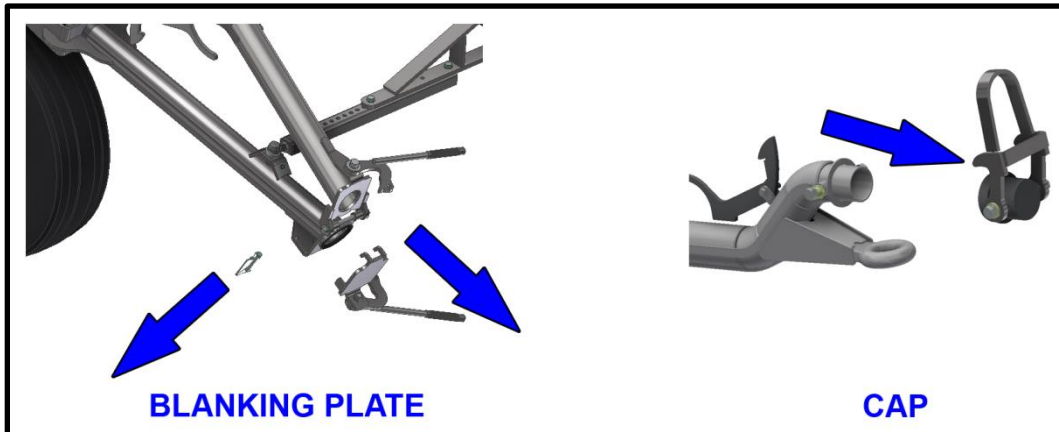


*Alignment Detail*

img-01474

## Connecting to Traveller

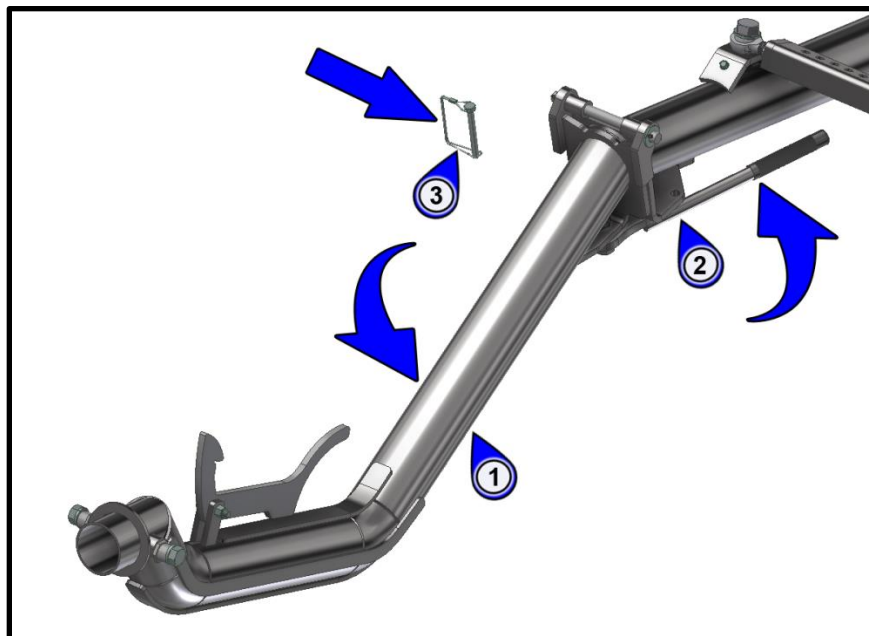
After choosing which side of the irrigation boom to connect, remove the blanking plate or cap. Once removed attach the blanking plate or cap to the opposite sides inlet pipe.



*Figure 9 - Blanking Plate or Cap*

*img-01461*

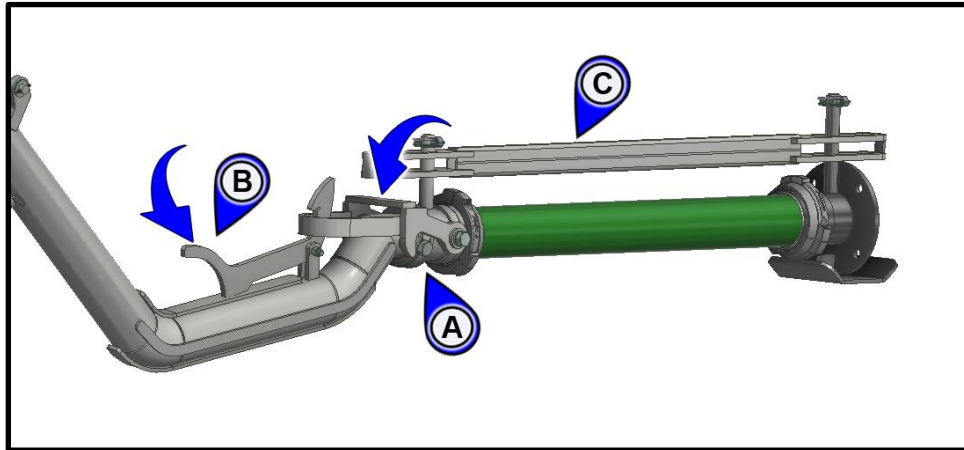
For the offset feed option proceed to flip the connector tube (1). Turn the handle (2) locking the connector tube. Replace the quick pin (3) to ensure the tube is secure.



*Figure 10 - Offset Connector Tube*

*img-01462*

To assist the position of the hose during operation a lay-flat hose connector is used and can be attached as shown. Lower the (A) hook over top the latch (B) which is also lowered to tighten the connection. Part (C) is secured to the cart and must be placed over the lay-flat hose where it is locked during operation to prevent hose kinking.



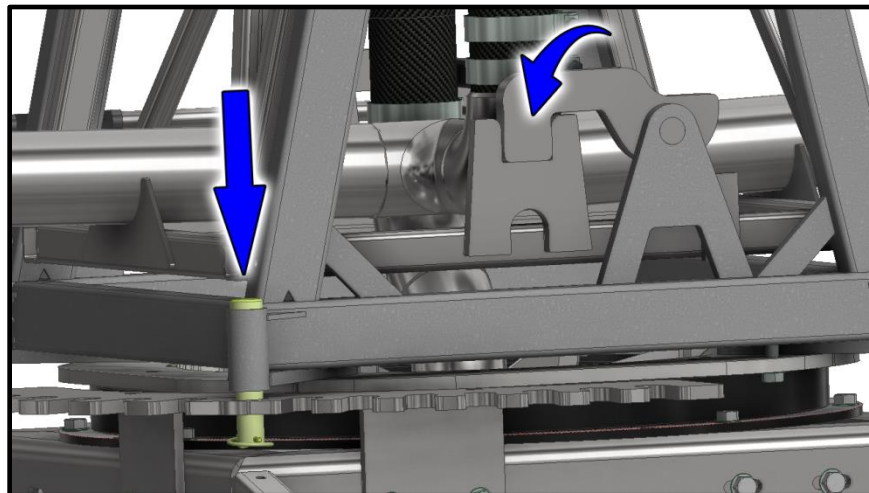
*Figure 11 - Lay-Flat Hose Connector*

*img-01463*

## Unfolding Boom

### Step 1

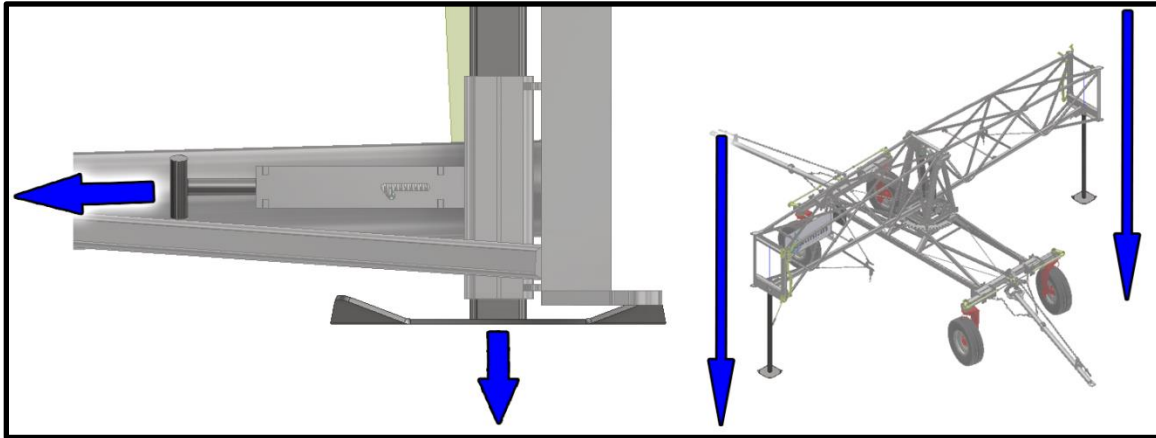
Begin unfolding your irrigation boom by locking your boom frame to the turntable at 90 degrees to the cart frame. The center sprinklers must face away from the traveller so that the irrigation is behind the irrigation boom.



*Figure 12 - Locking Pin and Pivot Lock*

*img-01464*

Pull the locking pin to lower the stabilizers until they are on the ground, then relock into position. Repeat this process for the opposite side. Verify that they are locked into place.



*Figure 13 - Lower Stabilizers*

*img-01465*



**Not locking the boom frame to the cart frame at a 90 degree angle while unfolding it will result in an unbalanced irrigation boom that will tip over. This will result in damage to your irrigation boom, and may cause serious injury and/or death.**



**Failure to lower and lock your irrigation boom stabilizers before unfolding your irrigation boom will result in an unbalanced irrigation boom that will tip over. This will result in damage to your irrigation boom, and may cause serious injury and/or death.**



## Step 2

Unfold your irrigation boom one section at a time, while alternating sides as you unfold sections one at a time. Guide each section as they rotate to the open position. Verify that each boom section is completely latched before unfolding the next section.

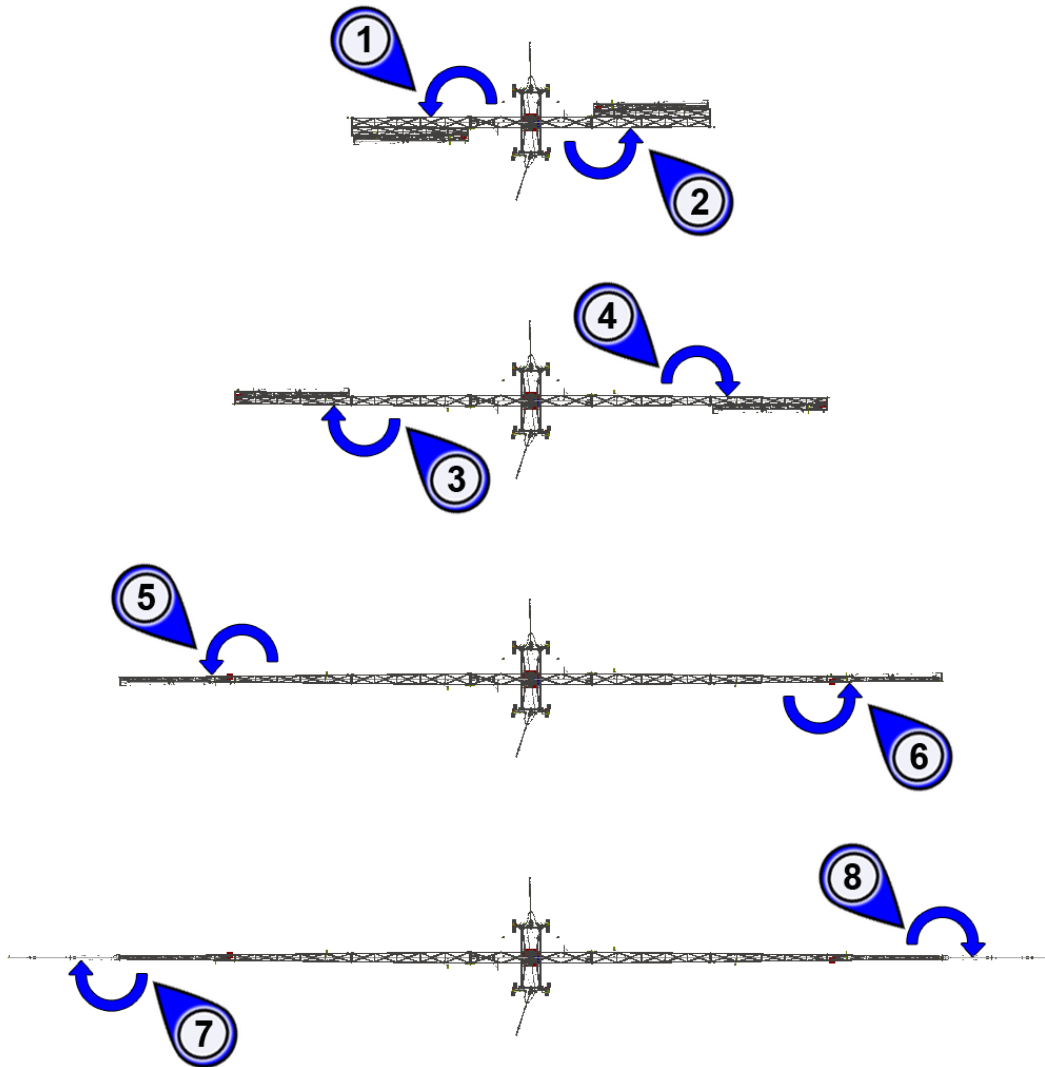
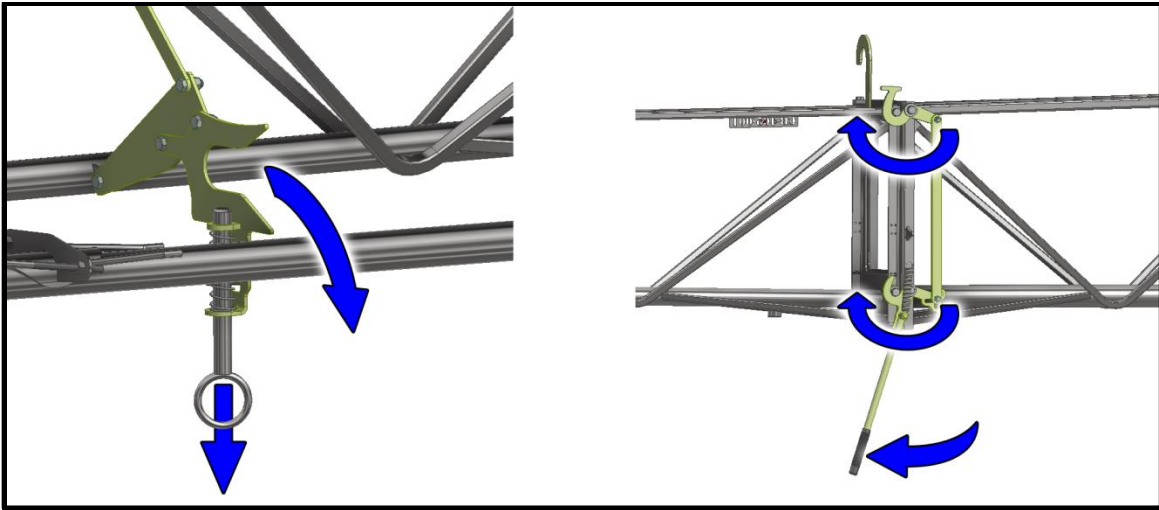


Figure 14 - Unfolding Boom Order

img-01466



**Failing to open your irrigation boom by alternating sections will result in an unbalanced irrigation boom that will tip over. This will result in damage to your irrigation boom, and may cause injury and/or death.**



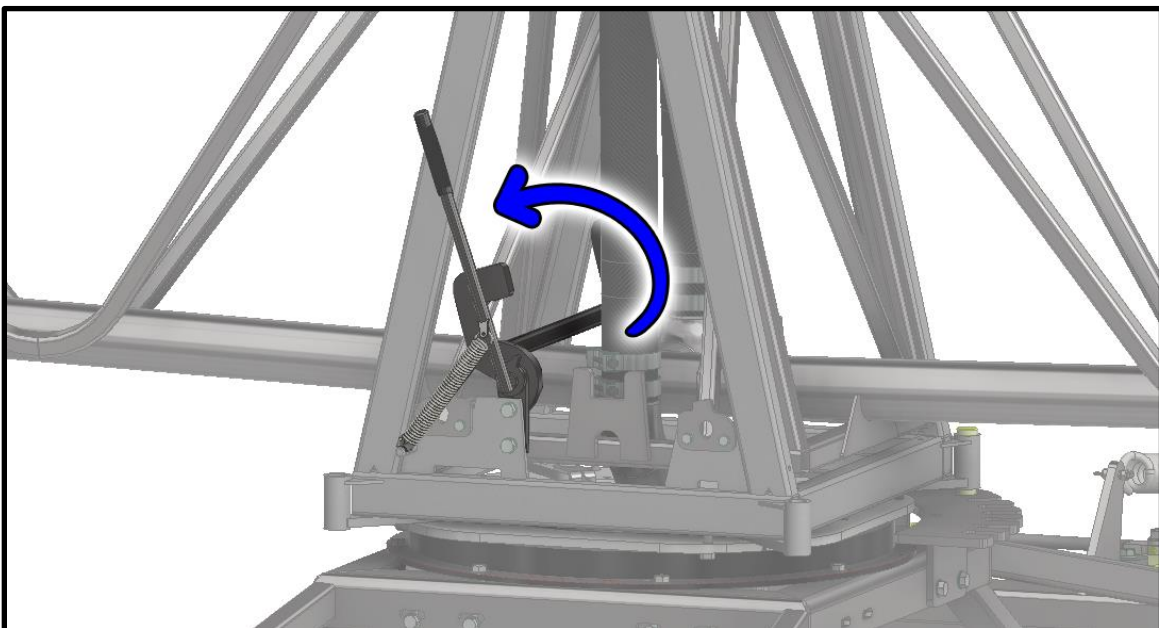
*Figure 15 - Unhook Section then Latch*

*img-01467*



**Failure to unhook, guide and then securely latch each section as you unfold it will result in the irrigation boom being unable to correctly support itself. This will result in damage to your irrigation boom, damage to crops and/or property during operation. It may also lead to serious injury and/or death.**

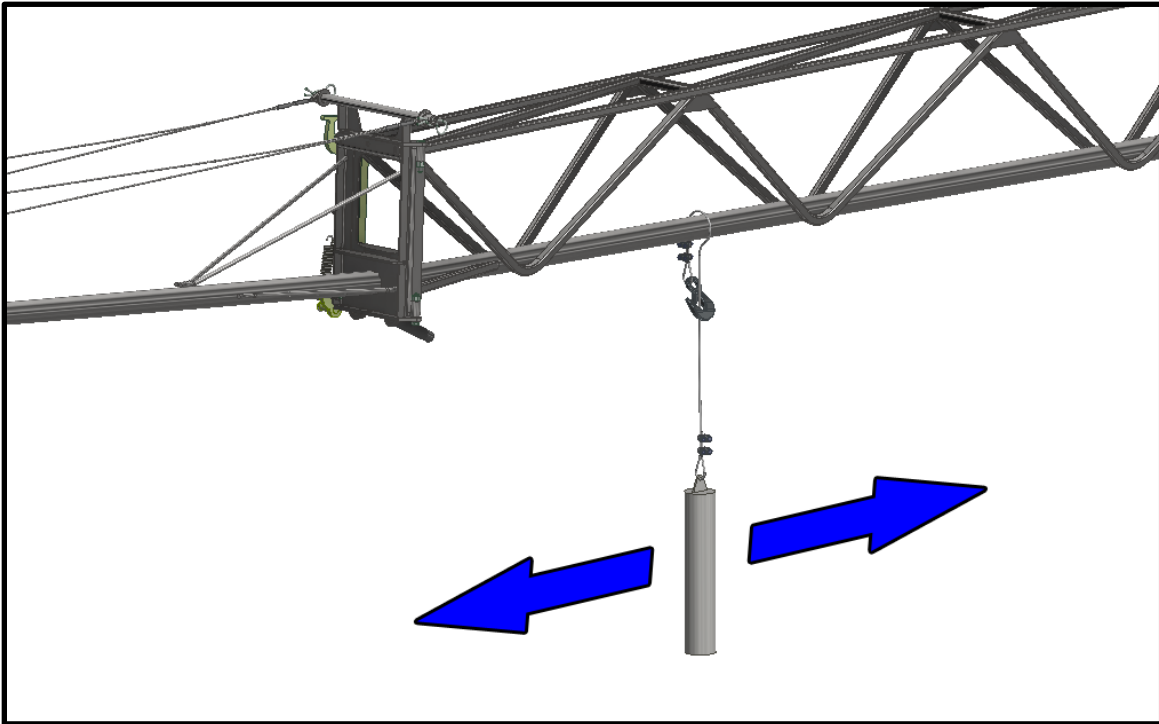
Once your irrigation boom is completely unfolded you may release the center pivot latch.



*Figure 16 - Release Pivot Latch*

*img-01468*

Attach leader weights to the boom frame to keep the irrigation boom stable during operation. Ensure that the center boom is balanced by adjusting weights on the outer parts of section 4.



*Figure 17 - Leader Weight*

*img-01469*



**Failing to balance your irrigation boom with leader weights will result in an unstable irrigation boom that will tip over during a pull. This will cause damage to the irrigation boom, as well as damage to crops and/or property**

You may now connect to your water supply line, and then raise the irrigation boom stabilizer legs.

## Irrigation Pull

Pull your irrigation boom out to its start position. Do not exceed 3 mph [4 km/h] while you are pulling your irrigation boom to its start position. The boom inlet feed should always be set in line with the middle of the irrigation traveller (see figure below). Adjust the angle of your irrigation boom if required.

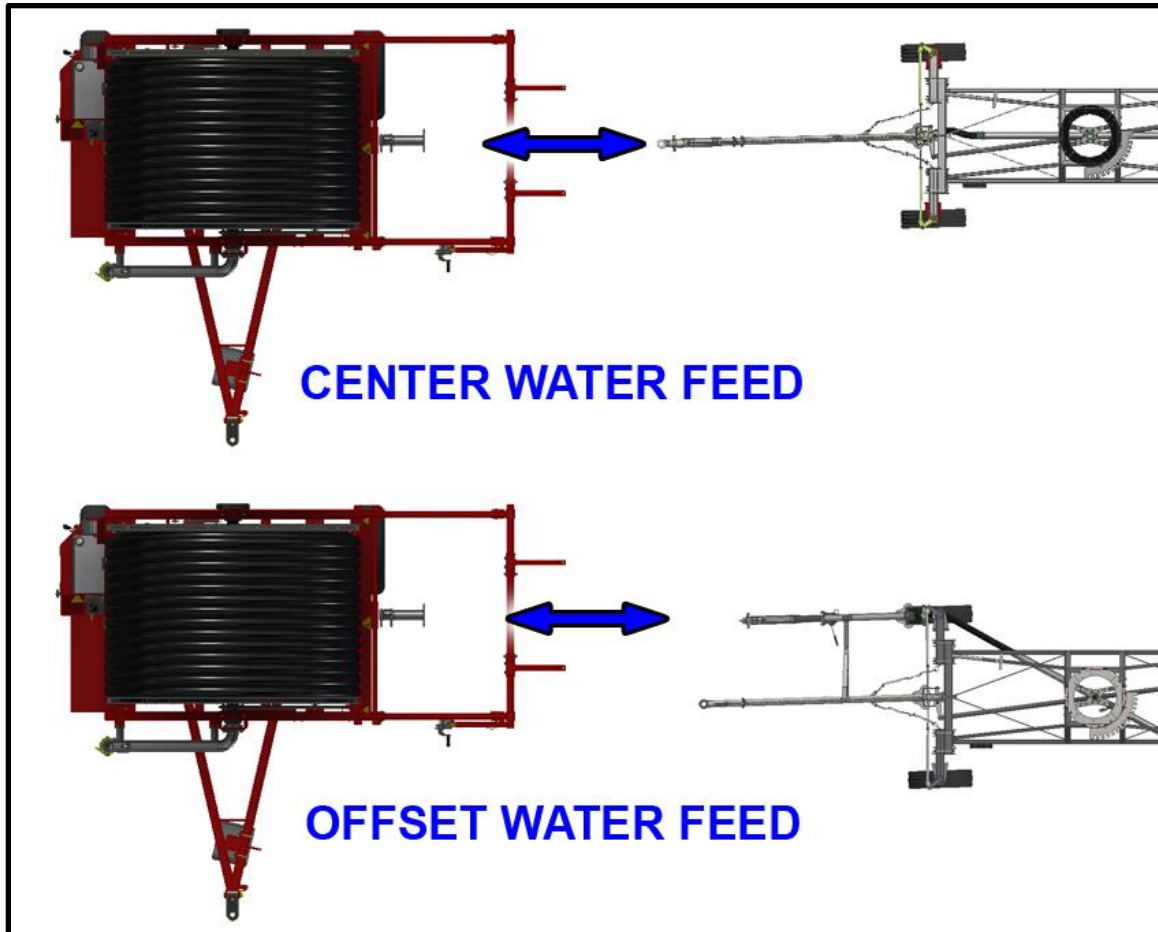


Figure 18 - Connect Irrigation Boom

img-01470



Failure to lock your irrigation boom after rotating it will result in unstable operation. The irrigation boom will tip and damage itself and connected equipment.

Exceeding the maximum pull out speed will result in damage to the irrigation boom and any attached equipment.

Once your irrigation boom is at the start and adjusted correctly, turn on your water supply. Bring your system up to pressure slowly, and once you have reached operating pressure begin your pull. If you are angled for the headland at the start of your pull you must re adjust your irrigation boom to match the angle of the finishing headland. If there are obstacles in the field the operator must rotate the boom around any obstacles in the irrigation boom's path.



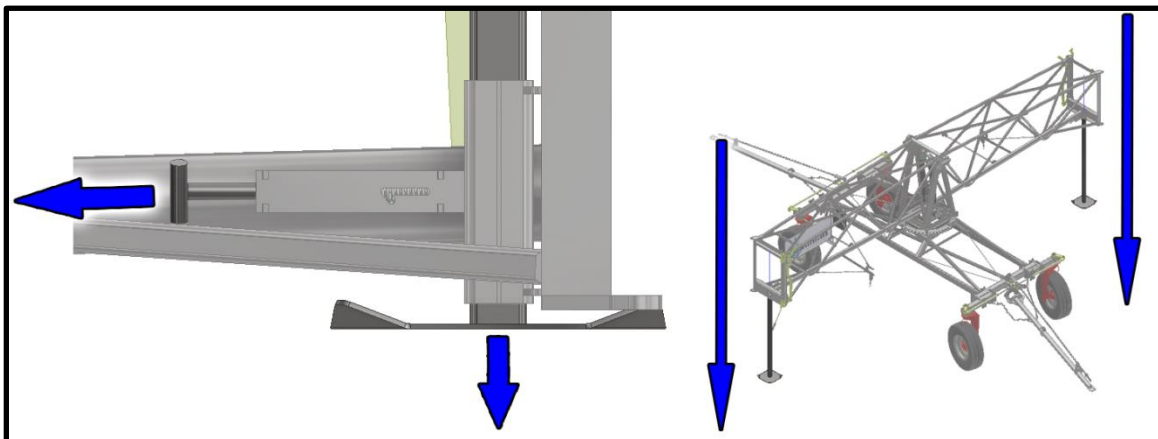
**Quickly pressurizing your irrigation boom may lead to unexpected seal failures, damage to your irrigation boom and/or the attached equipment.**

**Failure to re adjust your irrigation boom before the end of your pull may result in a collision with people or objects. This will cause damage to the irrigation boom, any equipment or items in the area, and serious injury and/or death.**

## Folding

### Step 1

Begin folding your irrigation boom by ensuring your boom frame is locked to the turntable at a 90 degree angle (perpendicular) with the boom cart frame then lower the stabilizers until they are on the ground and locked into position. Verify that they are locked in place.



*Figure 19 - Lower Stabilizers*

*img-01465*



**Failure to lower and lock your irrigation boom stabilizers before folding your irrigation boom will result in an unbalanced irrigation boom that will tip over. This will result in damage to your irrigation boom, and may cause injury and/or death.**

## Step 2

Disconnect your irrigation boom from your water supply. Then fold up your irrigation boom one section at a time. Be sure to alternate sides as you fold up sections. The reverse of the unfold process from earlier. Retract stabilizers.



**Failing to close your irrigation boom by alternating sections will result in an unbalanced irrigation boom that will tip over. This will result in damage to your irrigation boom, and may cause serious injury and/or death.**



*Figure 20 - Folded Irrigation Boom*

*img-01471*



**Parts Section**

Cart Body Assembly ● ..... 22

Cart Wheel Assembly ● ..... 24

Cart Wheel Assembly - 96 inch ◇ ..... 26

Cart Wheel Assembly - 120 inch ◇ ..... 26

Center Feed Tongue Assembly ● ..... 28

Offset Feed Tongue Assembly ◇ ..... 30

Center Boom Section - Inner ● ..... 32

Center Boom Section - Outer ● ..... 34

Boom Section 2 Assembly ● ..... 36

Boom Section 3 Assembly ● ..... 38

Boom Section 4 Assembly ● ..... 40

Boom Section 6 Assembly ◇ ..... 44

Boom Section 7 Assembly ◇ ..... 46

Boom Section 8 Assembly ◇ ..... 48

Sprinkler Kit Assembly - Komet ◇ ..... 50

End Sprinkler Kit - R55 ◇ ..... 52

Blanking Plate Assembly ◇ ..... 54

Center Sprinkler Assembly ◇ ..... 56

Inlet Accessories ◇ ..... 58

Boom Hitch Kit ◇ ..... 60

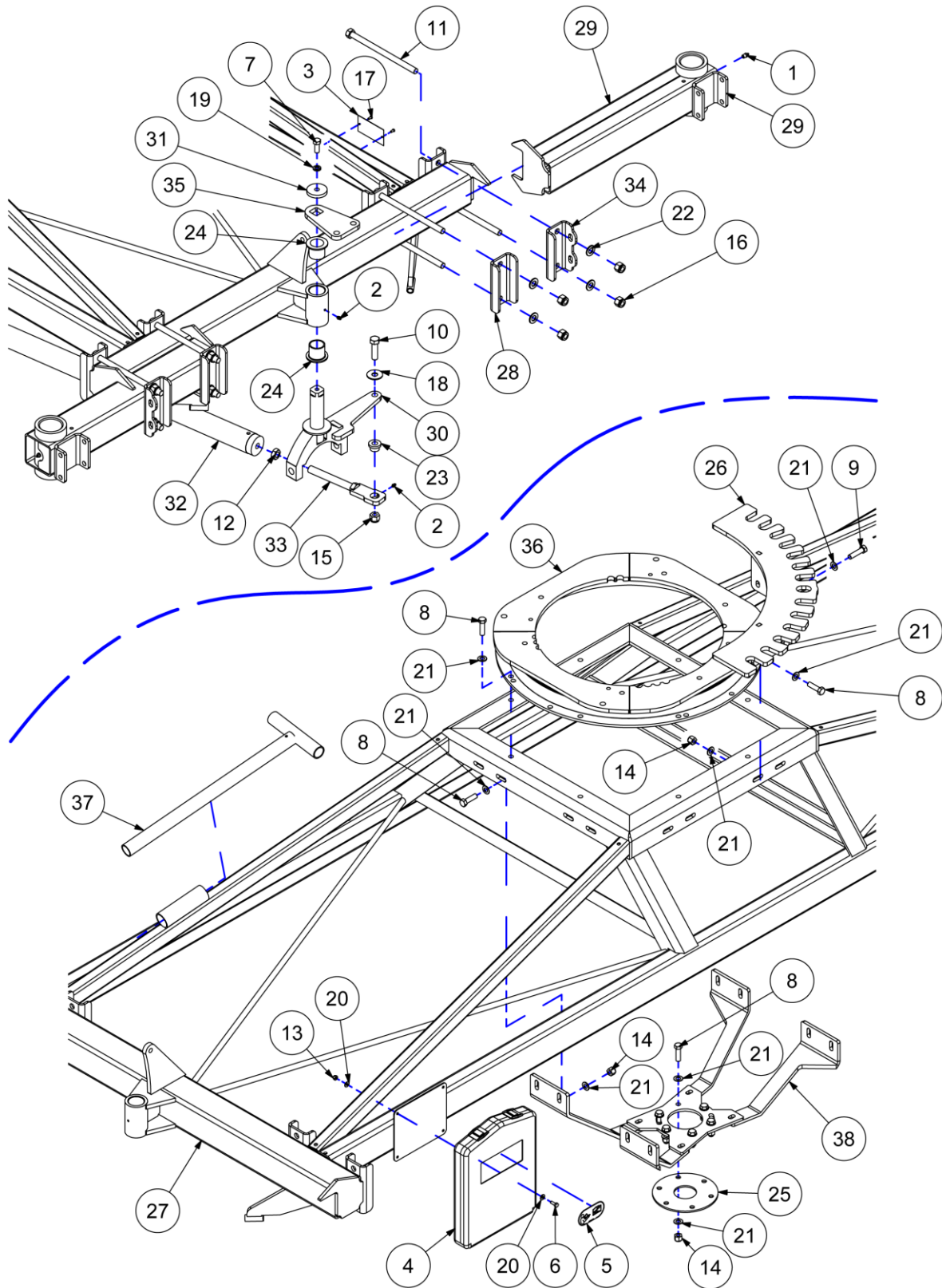
High Crop Assembly - 1 of 3 ◇ ..... 62

High Crop Assembly - 2 of 3 ◇ ..... 64

High Crop Assembly - 3 of 3 ◇ ..... 66

| LEGEND |                    |    |                |
|--------|--------------------|----|----------------|
| ●      | Standard Equipment | ↵  | Model Variance |
| ◆      | Full Assembly      | AR | As Required    |
| ◇      | Optional Equipment | NS | Not Shown      |

**Cart Body Assembly ●**



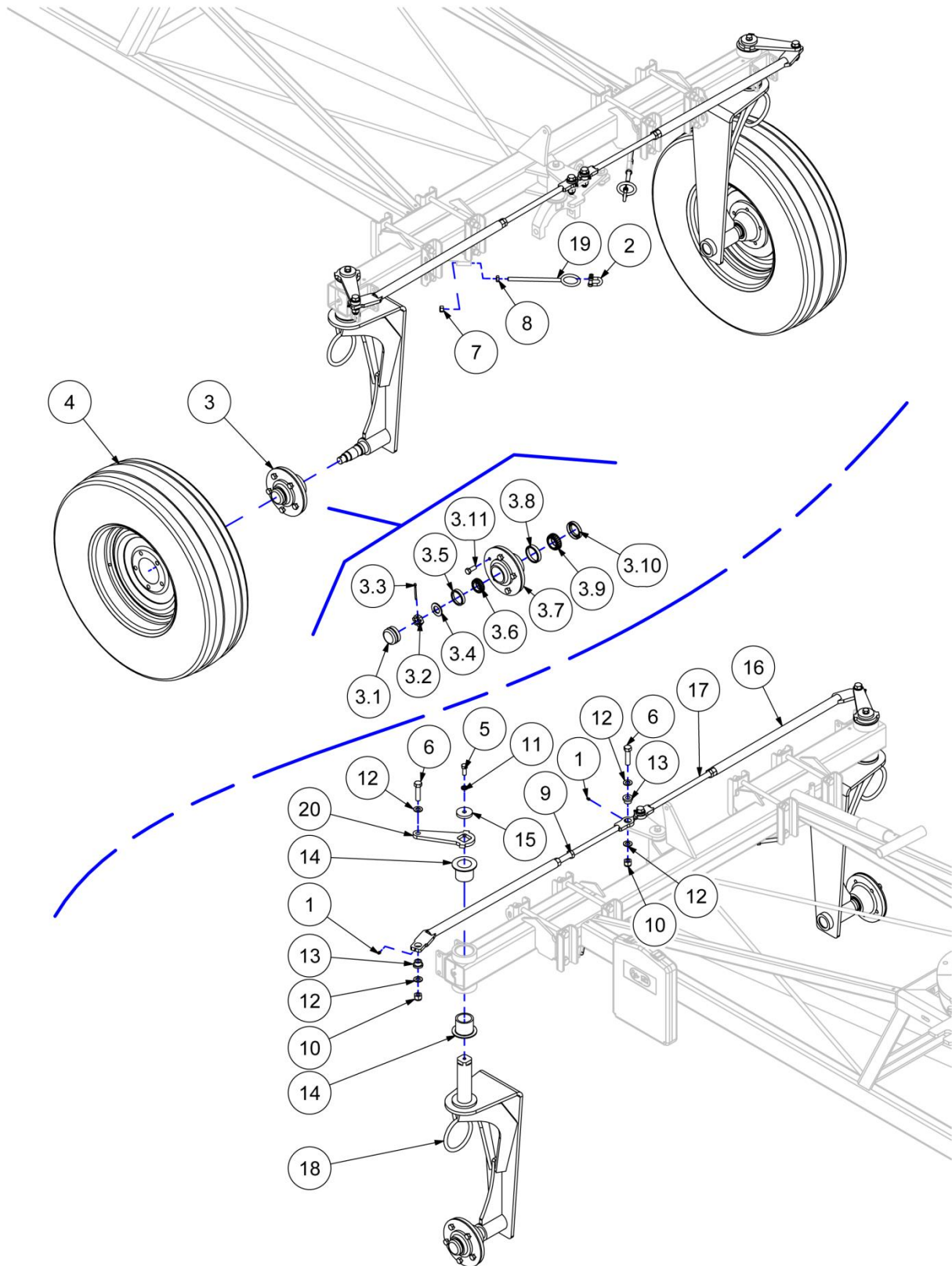




**Cart Body Assembly ●**

| ITEM | DESCRIPTION                     | PART NUMBER       | QTY | NOTES |
|------|---------------------------------|-------------------|-----|-------|
| ●    | <b>BOOM CART ASSEMBLY</b>       | <b>CB-CRT-64</b>  |     | ●     |
| 1    | GREASE FITTING - 1/8 NPT        | 40-001            | 4   |       |
| 2    | GREASE FITTING - 1/4-28         | 40-001-02528      | 4   |       |
| 3    | CADMAN SERIAL NUMBER TAG        | 40-238-B          | 1   |       |
| 4    | MANUAL PAK - LARGE              | 42-071            | 1   |       |
| 5    | LABEL - MANUALS                 | 42-LBL-118        | 1   |       |
| 6    | BOLT - 1/4-20 X 3/4             | 90-BLT-02520X075  | 4   |       |
| 7    | BOLT - 1/2-13 X 1 1/4           | 90-BLT-05013X125  | 2   |       |
| 8    | BOLT - 1/2-13 X 1 3/4           | 90-BLT-05013X175  | 22  |       |
| 9    | BOLT - 1/2-13 X 2.00            | 90-BLT-05013X200  | 2   |       |
| 10   | BOLT - 5/8-11 X 2 1/4           | 90-BLT-06311X225  | 2   |       |
| 11   | BOLT - 5/8-18 X 10.00           | 90-BLT-06318X1000 | 16  |       |
| 12   | NUT JAM - 3/4-10                | 90-NUT-JAM075-10  | 1   |       |
| 13   | NUT LOCK - 1/4-20               | 90-NUT-LOC025-20  | 4   |       |
| 14   | NUT LOCK - 1/2-13               | 90-NUT-LOC050-13  | 24  |       |
| 15   | NUT LOCK - 5/8-11               | 90-NUT-LOC063-11  | 2   |       |
| 16   | NUT LOCK - 5/8-18               | 90-NUT-LOC063-18  | 16  |       |
| 17   | RIVET - 3/16 X 3/8              | 90-RIV-019X038    | 2   |       |
| 18   | WASHER FLAT - 5/8               | 90-WSR-FLT063     | 2   |       |
| 19   | WASHER LOCK - 1/2               | 90-WSR-LOC050     | 2   |       |
| 20   | WASHER SAE - 1/4                | 90-WSR-SAE025     | 8   |       |
| 21   | WASHER SAE - 1/2                | 90-WSR-SAE050     | 48  |       |
| 22   | WASHER SAE - 5/8                | 90-WSR-SAE063     | 31  |       |
| 23   | MACH - FLANGED INSERT 1.00X0.50 | CB-013            | 2   |       |
| 24   | UHMW FLANGED BUSH SHAFT 1.50    | CB-017-A          | 4   |       |
| 25   | GASKET 64M BOOM URETHANE        | CB-019            | 1   |       |
| 26   | TURNTABLE LOCK WELDMENT         | CB-165-061        | 1   |       |
| 27   | UNDERCARRIAGE MAIN FRAME        | CB-665-001-B      | 1   |       |
| 28   | WHEEL SPACING BRACKET - GALV    | CB-665-019        | 4   |       |
| 29   | WHEEL MOUNT SLIDER              | CB-665-022-A      | 4   |       |
| 30   | LOWER DRAG SWIVEL WELDMENT      | CB-665-032        | 2   |       |
| 31   | STEERING LASER CUT WASHER       | CB-665-039        | 2   |       |
| 32   | CENTER STEERING BAR WELD        | CB-665-091        | 1   |       |
| 33   | CENTER STEERING WELDED BOLT     | CB-665-096        | 1   |       |
| 34   | WHEEL SPACING HOLDER            | CB-665-133-A      | 4   |       |
| 35   | CENTER STEERING LINK            | CB-665-157        | 2   |       |
| 36   | TURN TABLE MACHINING            | CB-665-199-A      | 1   |       |
| 37   | LATCH HANDLE EXTENSION WELD     | CB-765-110-B      | 1   |       |
| 38   | MIDDLE PLUMBING MOUNT           | CB-960-011-A      | 1   |       |

**Cart Wheel Assembly ●**

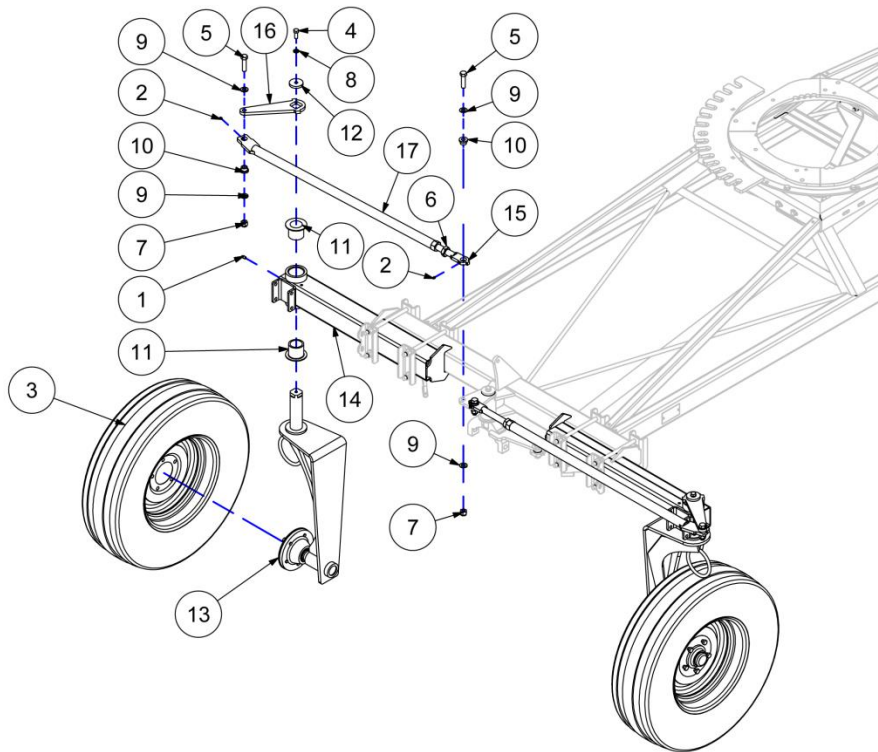




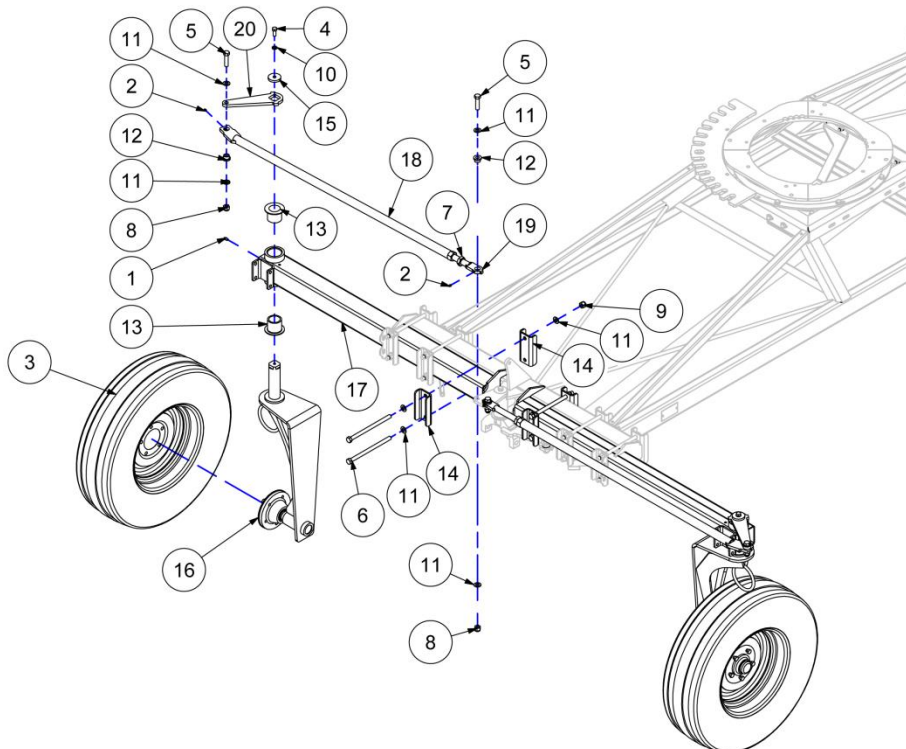
**Cart Wheel Assembly ●**

| ITEM | DESCRIPTION                     | PART NUMBER      | QTY | NOTES |
|------|---------------------------------|------------------|-----|-------|
| ●    | <b>BOOM CART ASSEMBLY</b>       | <b>CB-CRT-64</b> |     | ●     |
| 1    | GREASE FITTING - 1/4-28         | 40-001-02528     | 8   |       |
| 2    | SHACKLE - 3/8 X 1 1/4 X 2000LBS | 42-771           | 4   |       |
| 3    | HUB ASS'Y - 5 BOLT              | 55-018           | 4   | ◆     |
| 3.1  | CAP - DUST                      | 55-023           | 1   |       |
| 3.2  | NUT                             | 55-260           | 1   |       |
| 3.3  | COTTER PIN - 3/16 X 2.00        | 90-PIN-CT019X200 | 1   |       |
| 3.4  | WASHER SAE - 1.00               | 90-WSR-SAE100    | 1   |       |
| 3.5  | OUTER BEARING - CUP             | 55-021           | 1   |       |
| 3.6  | OUTER BEARING - CONE            | 55-022           | 1   |       |
| 3.7  | HUB - 5 BOLT                    | 55-018-A         | 1   |       |
| 3.8  | INNER BEARING - CUP             | 55-019           | 1   |       |
| 3.9  | INNER BEARING - CONE            | 55-020           | 1   |       |
| 3.10 | SEAL - GREASE                   | 55-015           | 1   |       |
| 3.11 | WHEEL BOLT - 1/2-20 X 45°       | 55-007-45        | 5   |       |
| 4    | TRU-TRAC F-2 750X16 8 PLY ASSY  | 55-215           | 4   |       |
| 5    | BOLT - 1/2-13 X 1 1/4           | 90-BLT-05013X125 | 4   |       |
| 6    | BOLT - 5/8-11 X 2 1/2           | 90-BLT-06311X250 | 8   |       |
| 7    | NUT HEX - 1/2-13                | 90-NUT-HEX050-13 | 4   |       |
| 8    | NUT JAM - 1/2-13                | 90-NUT-JAM050-13 | 4   |       |
| 9    | NUT JAM - 3/4-16                | 90-NUT-JAM075-16 | 4   |       |
| 10   | NUT LOCK - 5/8-11               | 90-NUT-LOC063-11 | 8   |       |
| 11   | WASHER LOCK - 1/2               | 90-WSR-LOC050    | 4   |       |
| 12   | WASHER SAE - 5/8                | 90-WSR-SAE063    | 16  |       |
| 13   | MACH - FLANGED INSERT 1.00X0.50 | CB-013           | 8   |       |
| 14   | UHMW FLANGED BUSH SHAFT 2.00    | CB-018-A         | 8   |       |
| 15   | STEERING LASER CUT WASHER       | CB-665-039       | 4   |       |
| 16   | TIE ROD WELD - 80IN SPACING     | CB-665-040-B     | 4   |       |
| 17   | TIE ROD ADJUSTABLE TIP          | CB-665-043-B     | 4   |       |
| 18   | WHEEL WELDMENT                  | CB-665-100-C     | 4   |       |
| 19   | WELDED EYELET                   | CB-665-123       | 4   |       |
| 20   | STEER OUTSIDE LINK 55DEG        | CB-665-158       | 4   |       |

**Cart Wheel Assembly - 96 inch** ◆



**Cart Wheel Assembly - 120 inch** ◆





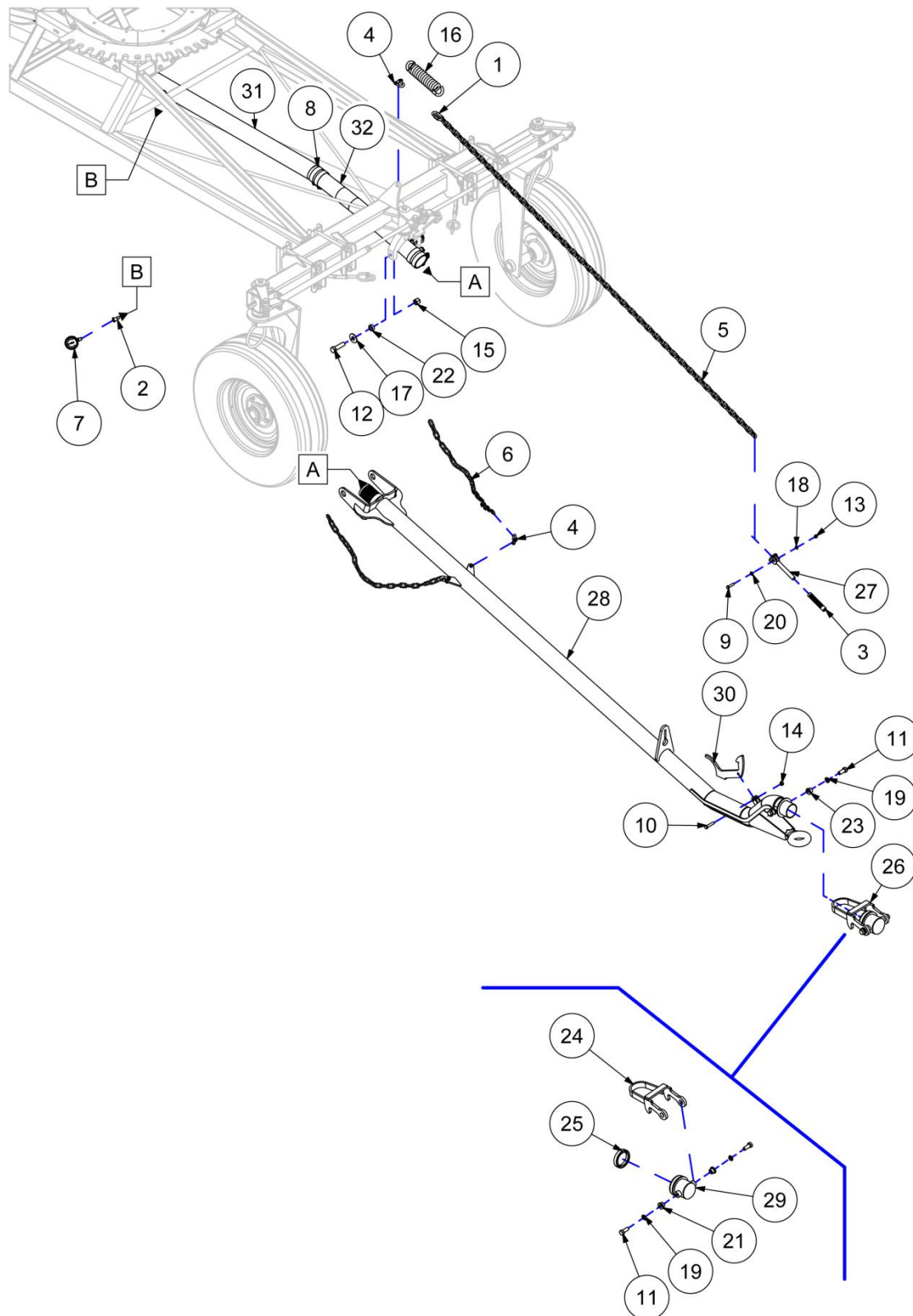
**Cart Wheel Assembly - 96 inch** ◆

| ITEM | DESCRIPTION                          | PART NUMBER        | QTY | NOTES |
|------|--------------------------------------|--------------------|-----|-------|
| ◆    | <b>CART WHEEL ASSEMBLY - 96 INCH</b> | <b>CB-KIT-WS96</b> |     | ◆     |
| 1    | GREASE FITTING - 1/8 NPT             | 40-001             | 4   |       |
| 2    | GREASE FITTING - 1/4-28              | 40-001-02528       | 6   |       |
| 3    | TRU-TRAC F-2 750X16 8 PLY ASSY       | 55-215             | 4   |       |
| 4    | BOLT - 1/2-13 X 1 1/4                | 90-BLT-05013X125   | 4   |       |
| 5    | BOLT - 5/8-11 X 2 1/2                | 90-BLT-06311X250   | 8   |       |
| 6    | NUT JAM - 1.00-8                     | 90-NUT-JAM100-08   | 4   |       |
| 7    | NUT LOCK - 5/8-11                    | 90-NUT-LOC063-11   | 8   |       |
| 8    | WASHER LOCK - 1/2                    | 90-WSR-LOC050      | 4   |       |
| 9    | WASHER SAE - 5/8                     | 90-WSR-SAE063      | 16  |       |
| 10   | MACH - FLANGED INSERT 1.00X0.50      | CB-013             | 8   |       |
| 11   | UHMW FLANGED BUSH SHAFT 2.00         | CB-018-A           | 8   |       |
| 12   | STEERING LASER CUT WASHER            | CB-665-039         | 4   |       |
| 13   | WHEEL WELDMENT                       | CB-665-100-C       | 4   |       |
| 14   | WHEEL MOUNT SLIDER 96IN              | CB-665-154-A       | 4   |       |
| 15   | WELD TIE ROD ADJUSTABLE TIP          | CB-665-174-A       | 4   |       |
| 16   | STEER OUTSIDE LINK 55DEG WS120       | CB-665-178         | 4   |       |
| 17   | WELD TIE ROD 96IN WIDE SPACING       | CB-665-187         | 4   |       |

**Cart Wheel Assembly - 120 inch** ◆

| ITEM | DESCRIPTION                           | PART NUMBER         | QTY | NOTES |
|------|---------------------------------------|---------------------|-----|-------|
| ◆    | <b>CART WHEEL ASSEMBLY - 120 INCH</b> | <b>CB-KIT-WS120</b> |     | ◆     |
| 1    | GREASE FITTING - 1/8 NPT              | 40-001              | 4   |       |
| 2    | GREASE FITTING - 1/4-28               | 40-001-02528        | 6   |       |
| 3    | TRU-TRAC F-2 750X16 8 PLY ASSY        | 55-215              | 4   |       |
| 4    | BOLT - 1/2-13 X 1 1/4                 | 90-BLT-05013X125    | 4   |       |
| 5    | BOLT - 5/8-11 X 2 1/2                 | 90-BLT-06311X250    | 8   |       |
| 6    | BOLT - 5/8-18 X 10.00                 | 90-BLT-06318X1000   | 8   |       |
| 7    | NUT JAM - 1.00-8                      | 90-NUT-JAM100-08    | 4   |       |
| 8    | NUT LOCK - 5/8-11                     | 90-NUT-LOC063-11    | 8   |       |
| 9    | NUT LOCK - 5/8-18                     | 90-NUT-LOC063-18    | 8   |       |
| 10   | WASHER LOCK - 1/2                     | 90-WSR-LOC050       | 4   |       |
| 11   | WASHER SAE - 5/8                      | 90-WSR-SAE063       | 32  |       |
| 12   | MACH - FLANGED INSERT 1.00X0.50       | CB-013              | 8   |       |
| 13   | UHMW FLANGED BUSH SHAFT 2.00          | CB-018-A            | 8   |       |
| 14   | WHEEL SPACING BRACKET - GALV          | CB-665-019          | 8   |       |
| 15   | STEERING LASER CUT WASHER             | CB-665-039          | 4   |       |
| 16   | WHEEL WELDMENT                        | CB-665-100-C        | 4   |       |
| 17   | WHEEL MOUNT SLIDER 120IN              | CB-665-160-B        | 4   |       |
| 18   | WELD TIE ROD 120IN WIDE SPACING       | CB-665-167-B        | 4   |       |
| 19   | WELD TIE ROD ADJUSTABLE TIP           | CB-665-174-A        | 4   |       |
| 20   | STEER OUTSIDE LINK 55DEG WS120        | CB-665-178          | 4   |       |

## Center Feed Tongue Assembly ●

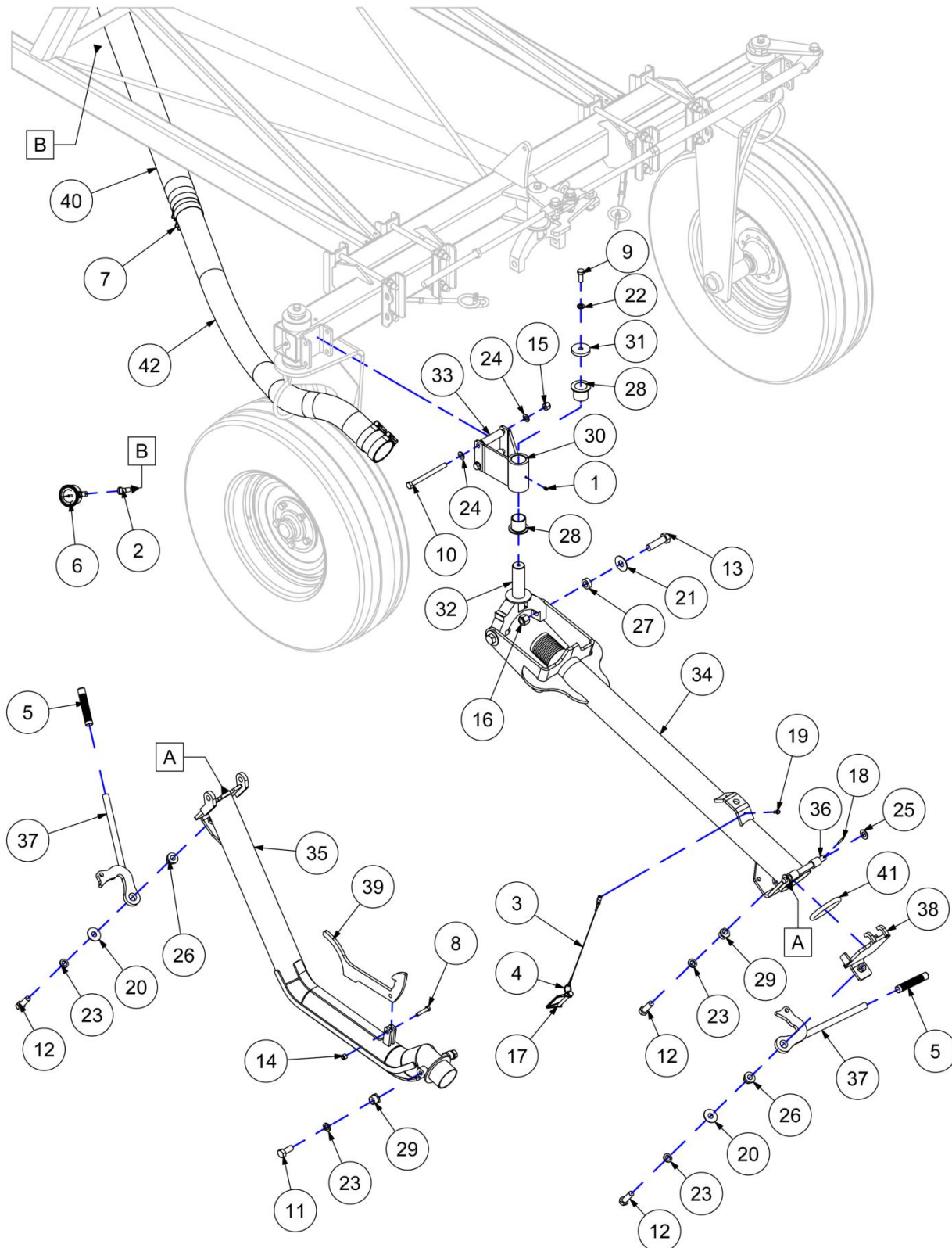




**Center Feed Tongue Assembly ●**

| ITEM | DESCRIPTION                      | PART NUMBER         | QTY | NOTES |
|------|----------------------------------|---------------------|-----|-------|
| ◆    | <b>CENTER WATER FEED</b>         | <b>CB-KIT-CWF</b>   |     | ◆     |
| 1    | RAPID LINK - 3/8"                | 40-063              | 2   |       |
| 2    | ELBOW STREET - 1/2-NPP 45°       | 40-NPT-ELS025X45G   | 1   |       |
| 3    | GRIP FITS - 3/4 OD 4.8 OVERALL L | 42-678              | 2   |       |
| 4    | SHACKLE - 3/8 X 1 1/4 X 2000LBS  | 42-771              | 6   |       |
| 5    | 37 LINK GR 30 PLATED ASSY        | 42-776-A            | 2   |       |
| 6    | CHAIN - 5/16 GRADE 30 28 LINKS   | 42-777-A            | 4   |       |
| 7    | GAUGE - 0-200PSI LIQUID FILLED   | 45-018              | 1   |       |
| 8    | CLAMP - M8 80-85 (3.15-3.38 IN)  | 50-065              | 8   |       |
| 9    | BOLT - 3/8-16 X 1 1/2            | 90-BLT-03816X150    | 2   |       |
| 10   | BOLT - 7/16-20 X 2.00            | 90-BLT-04420X200    | 2   |       |
| 11   | BOLT - 5/8-11 X 1 1/2            | 90-BLT-06311X150    | 6   |       |
| 12   | BOLT - 3/4-10 X 2 3/4            | 90-BLT-07510X275    | 4   |       |
| 13   | NUT HEX - 3/8-16                 | 90-NUT-HEX038-16    | 2   |       |
| 14   | NUT HEX - 7/16-20                | 90-NUT-HEX044-20    | 2   |       |
| 15   | NUT LOCK - 3/4-10                | 90-NUT-LOC075-10    | 4   |       |
| 16   | EXT SPRING 2.313 DIA X 1/2 X 10  | 90-SPG-231X050X1000 | 2   |       |
| 17   | WASHER FLAT - 3/4                | 90-WSR-FLT075       | 4   |       |
| 18   | WASHER LOCK - 3/8                | 90-WSR-LOC038       | 2   |       |
| 19   | WASHER LOCK - 5/8                | 90-WSR-LOC063       | 6   |       |
| 20   | WASHER SAE - 3/8                 | 90-WSR-SAE038       | 2   |       |
| 21   | MACH - FLANGED INSERT 1.00X0.50  | CB-013              | 2   |       |
| 22   | MACHINED INSERT OD1.25ID0.76     | CB-014              | 4   |       |
| 23   | MACH- OFFSET PIN OD1.00 H063     | CB-025              | 4   |       |
| 24   | LOCKING HOOK WELD - LC           | CB-034              | 1   |       |
| 25   | PULL COUPLING LIP SEAL           | CB-037              | 1   |       |
| 26   | DRAG PLUMBING - CAP ASSEMBLY     | CB-038              | 1   |       |
| 27   | CHAIN END - HANDLE               | CB-665-108-A        | 2   |       |
| 28   | TONGUE WELDMENT                  | CB-665-138-A        | 2   |       |
| 29   | LARGE WASHER                     | CB-665-151          | 1   |       |
| 30   | LATCH                            | CB-665-153          | 2   |       |
| 31   | LOWER CENTER PLUMBING CWF        | CB-960-121          | 1   |       |
| 32   | HOSE - 3.00 CADMAN SUPPLY        | IR-HOZ-300CSSL.FT   | 2   |       |

## Offset Feed Tongue Assembly ♦

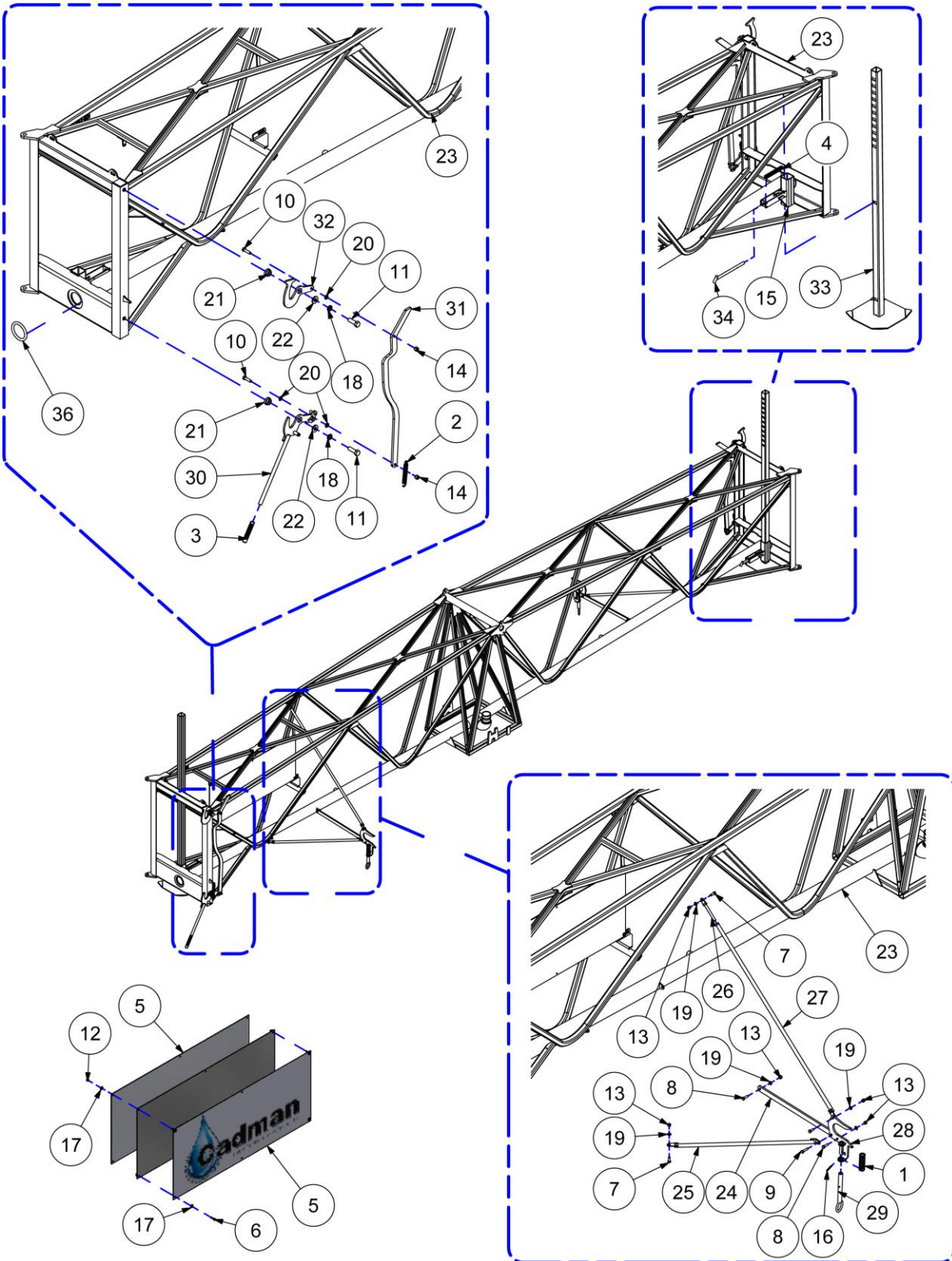




**Offset Feed Tongue Assembly** ◆

| ITEM | DESCRIPTION                      | PART NUMBER       | QTY | NOTES |
|------|----------------------------------|-------------------|-----|-------|
| ◆    | <b>OFFSET WATER FEED</b>         | <b>CB-KIT-OWF</b> |     | ◆     |
| 1    | GREASE FITTING - 1/4-28          | 40-001-02528      | 2   |       |
| 2    | ELBOW STREET - 1/2-NPP 45°       | 40-NPT-ELS025X45G | 1   |       |
| 3    | LANYARD - 12.00 STAINLESS        | 42-439            | 2   |       |
| 4    | RING - LANYARD                   | 42-440            | 2   |       |
| 5    | GRIP FITS - 3/4 OD 4.8 OVERALL L | 42-678            | 3   |       |
| 6    | GAUGE - 0-200PSI LIQUID FILLED   | 45-018            | 1   |       |
| 7    | CLAMP - M8 80-85 (3.15-3.38 IN)  | 50-065            | 8   |       |
| 8    | BOLT - 3/8-16 X 1 3/4            | 90-BLT-03816X175  | 2   |       |
| 9    | BOLT - 1/2-13 X 1 1/4            | 90-BLT-05013X125  | 2   |       |
| 10   | BOLT - 1/2-13 X 6.00             | 90-BLT-05013X600  | 4   |       |
| 11   | BOLT - 5/8-11 X 1 1/2            | 90-BLT-06311X150  | 4   |       |
| 12   | BOLT - 5/8-11 X 2.00             | 90-BLT-06311X200  | 5   |       |
| 13   | BOLT - 3/4-10 X 2 3/4            | 90-BLT-07510X275  | 4   |       |
| 14   | NUT LOCK - 3/8-16                | 90-NUT-LOC038-16  | 2   |       |
| 15   | NUT LOCK - 1/2-13                | 90-NUT-LOC050-13  | 4   |       |
| 16   | NUT LOCK - 3/4-10                | 90-NUT-LOC075-10  | 4   |       |
| 17   | QUICK PIN - 3/8 X 3" LG.         | 90-PIN-QD038X300  | 2   |       |
| 18   | ROLL PIN - 3/16 X 1.25 LG PLATED | 90-PIN-RL018X125  | 4   |       |
| 19   | SCREW TEK - 1/4 X 3/4            | 90-SCR-TEK025X075 | 2   |       |
| 20   | WASHER FLAT - 5/8                | 90-WSR-FLT063     | 3   |       |
| 21   | WASHER FLAT - 3/4                | 90-WSR-FLT075     | 4   |       |
| 22   | WASHER LOCK - 1/2                | 90-WSR-LOC050     | 2   |       |
| 23   | WASHER LOCK - 5/8                | 90-WSR-LOC063     | 9   |       |
| 24   | WASHER SAE - 1/2                 | 90-WSR-SAE050     | 8   |       |
| 25   | WASHER SAE - 5/8                 | 90-WSR-SAE063     | 4   |       |
| 26   | MACH - FLANGED INSERT 1.00X0.50  | CB-013            | 3   |       |
| 27   | MACHINED INSERT OD1.25ID0.76     | CB-014            | 4   |       |
| 28   | UHMW FLANGED BUSH SHAFT 1.50     | CB-017-A          | 4   |       |
| 29   | MACH- OFFSET PIN OD1.00 H063     | CB-025            | 6   |       |
| 30   | DRAG HOSE SWIVEL MOUNT           | CB-665-028-E      | 2   |       |
| 31   | STEERING LASER CUT WASHER        | CB-665-039        | 2   |       |
| 32   | LOWER DRAG SWIVEL WELDMENT       | CB-665-045        | 2   |       |
| 33   | SPACER TUBE ID0.65               | CB-665-047-A      | 4   |       |
| 34   | DRAG PLUMBING WELDMENT 1         | CB-665-056-A      | 2   |       |
| 35   | DRAG PLUMBING                    | CB-665-064-B      | 2   |       |
| 36   | ROD 0.625                        | CB-665-075        | 2   |       |
| 37   | HOOK-LATCH DRAG PLUMBING         | CB-665-076-B      | 3   |       |
| 38   | BLANK CAP WELDMENT               | CB-665-079        | 1   |       |
| 39   | LATCH PLATE HOOK OWF             | CB-665-130        | 2   |       |
| 40   | PLUMBING WELD OWF Y PIPE         | CB-960-013        | 1   |       |
| 41   | GASKET - 3.00 WIL-LOC            | IR-GKT-WL3        | 2   |       |
| 42   | HOSE - 3.00 CADMAN SUPPLY        | IR-HOZ-300CSSL.FT | 6   |       |

**Center Boom Section - Inner ●**

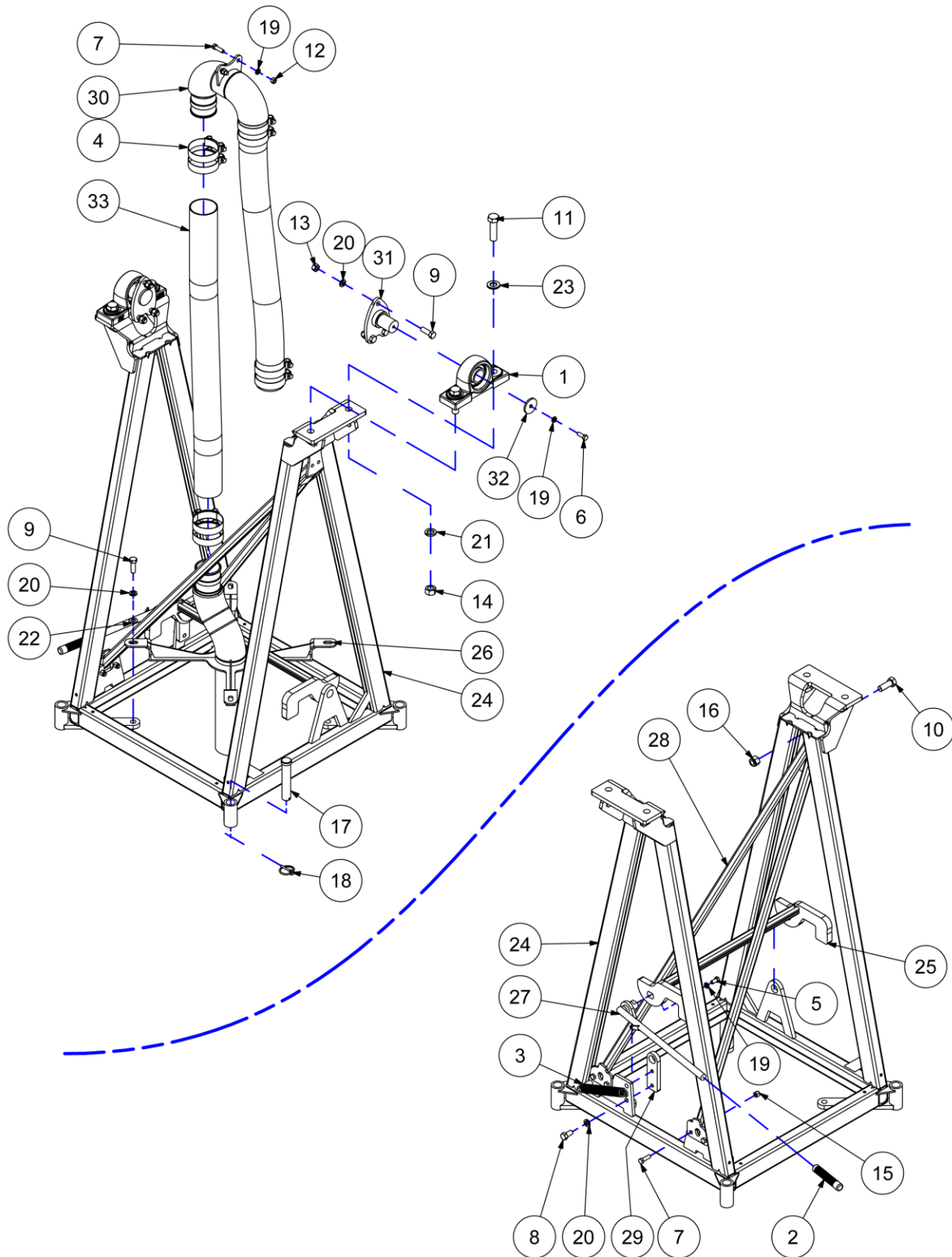




**Center Boom Section - Inner ●**

| ITEM | DESCRIPTION                      | PART NUMBER       | QTY | NOTES |
|------|----------------------------------|-------------------|-----|-------|
| ◆    | <b>CENTER BOOM SECTION</b>       | <b>CB-165-999</b> |     | ◆     |
| 1    | SPRING COMP - L1-4 OD0.84 10.7lb | 42-676            | 2   |       |
| 2    | SPRING EXT - L6-9 O.D1.00 38.5Lb | 42-677            | 2   |       |
| 3    | GRIP FITS - 3/4 OD 4.8 OVERALL L | 42-678            | 2   |       |
| 4    | SPRING L3.5-6 13.96LB PER INCH   | 42-679            | 2   |       |
| 5    | REFLECTIVE CADMAN BOOM DECAL     | 42-DCL-018        | 2   |       |
| 6    | BOLT - 1/4-20 X 1.00             | 90-BLT-02520X100  | 4   |       |
| 7    | BOLT - 3/8-16 X 1.00             | 90-BLT-03816X100  | 6   |       |
| 8    | BOLT - 3/8-16 X 1 1/4            | 90-BLT-03816X125  | 4   |       |
| 9    | BOLT - 3/8-16 X 1 1/2            | 90-BLT-03816X150  | 2   |       |
| 10   | BOLT - 1/2-13 X 1 3/4            | 90-BLT-05013X175  | 4   |       |
| 11   | BOLT - 3/4-10 X 2 1/4            | 90-BLT-07510X225  | 4   |       |
| 12   | NUT LOCK - 1/4-20                | 90-NUT-LOC025-20  | 4   |       |
| 13   | NUT LOCK - 3/8-16                | 90-NUT-LOC038-16  | 12  |       |
| 14   | NUT LOCK - 1/2-13                | 90-NUT-LOC050-13  | 4   |       |
| 15   | ROLL PIN - 3/16 X 2.00 LG PLATED | 90-PIN-RL018X200  | 2   |       |
| 16   | PIN ROLL - 1/4 X 2 1/2           | 90-PIN-RL025X200  | 2   |       |
| 17   | WASHER FLAT - 1/4                | 90-WSR-FLT025     | 8   |       |
| 18   | WASHER LOCK - 3/4                | 90-WSR-LOC075     | 4   |       |
| 19   | WASHER SAE - 3/8                 | 90-WSR-SAE038     | 11  |       |
| 20   | WASHER SAE - 1/2                 | 90-WSR-SAE050     | 6   |       |
| 21   | FLANGED INSERT 1.25 X H075       | CB-028-A          | 4   |       |
| 22   | LATCH WASHER H075                | CB-032            | 4   |       |
| 23   | CENTER SECTION                   | CB-165-000        | 1   |       |
| 24   | LINK - CENTER SECT LOCK          | CB-765-031-A      | 2   |       |
| 25   | CENTER SECT - LOCK HOZ BRACE     | CB-765-032-A      | 2   |       |
| 26   | LINK ADJUSTABLE END              | CB-765-036        | 2   |       |
| 27   | VERTICAL LINK L47.38             | CB-765-038-A      | 2   |       |
| 28   | TRANSPORT LATCH WELDM'T - 1ST    | CB-765-040        | 2   |       |
| 29   | LATCH PIN WELDMENT               | CB-765-043        | 2   |       |
| 30   | LOWER HOOK WELD - SECTION 1-2    | CB-765-045-A      | 2   |       |
| 31   | LATCH LINK - SECTION 1-2         | CB-765-049-A      | 2   |       |
| 32   | UPPER HOOK - SECTION 1-2         | CB-765-050-A      | 2   |       |
| 33   | JACK LEG WELDMENT                | CB-765-051        | 2   |       |
| 34   | JACK LEG PIN WELDMENT            | CB-765-057-A      | 2   |       |
| 35   | ALUPANEL LOGO PLATE              | CB-765-101        | 1   |       |
| 36   | GASKET - 3" (WIL-LOC)            | IR-GKT-BAUER076   | 2   |       |

**Center Boom Section - Outer ●**

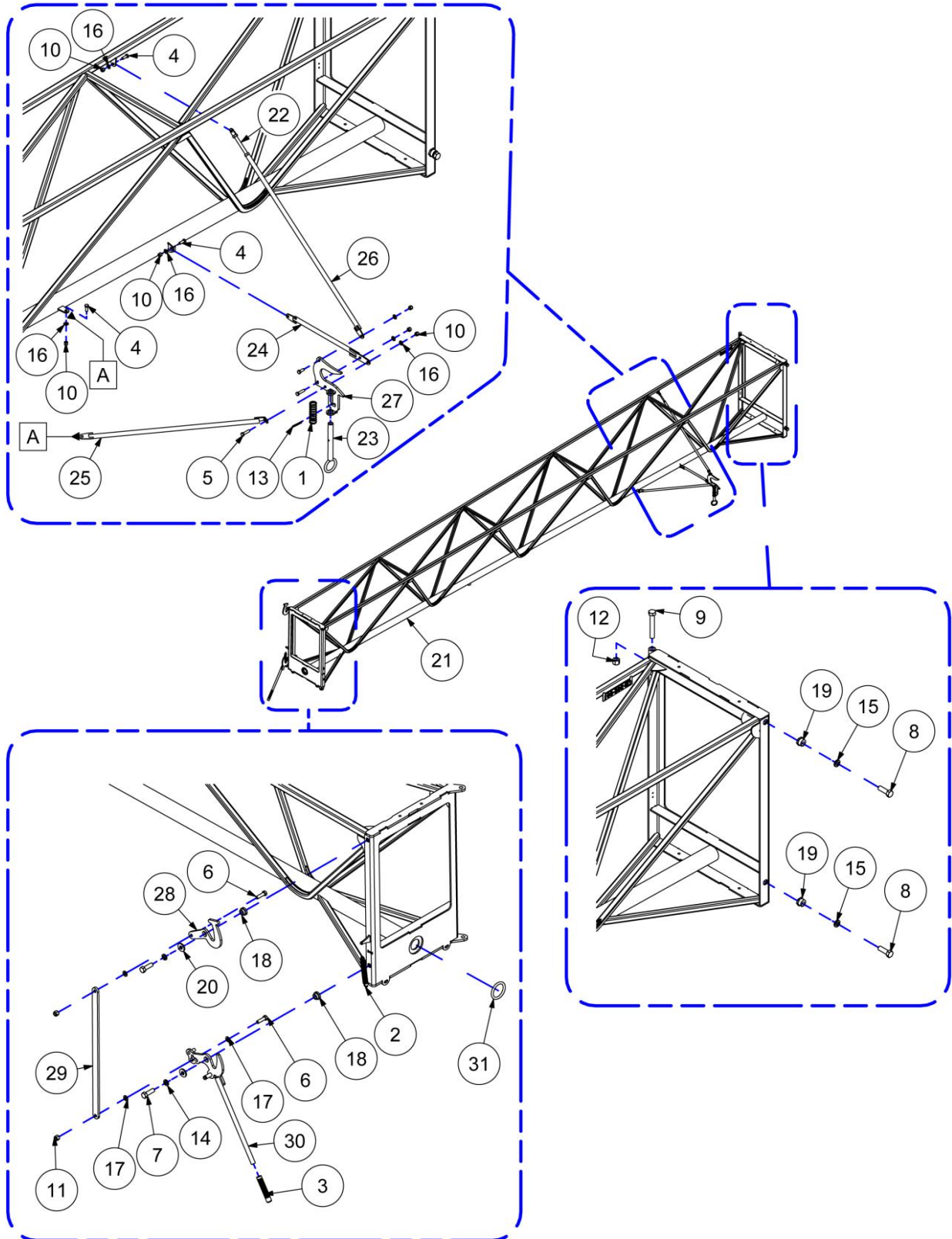




**Center Boom Section - Outer ●**

| ITEM | DESCRIPTION                        | PART NUMBER       | QTY | NOTES |
|------|------------------------------------|-------------------|-----|-------|
| ◆    | <b>CENTER BOOM SECTION</b>         | <b>CB-165-999</b> |     | ◆     |
| 1    | PILLOW BLOCK - 1 1/2"              | 42-671            | 2   |       |
| 2    | GRIP FITS - 3/4 OD 4.8 OVERALL L   | 42-678            | 1   |       |
| 3    | SPRING EXT - L8.5-16 OD1.00 61.5LB | 42-680            | 1   |       |
| 4    | CLAMP - M8 80-85 (3.15-3.38 IN)    | 50-065            | 8   |       |
| 5    | BOLT - 3/8-16 X 3/4                | 90-BLT-03816X075  | 1   |       |
| 6    | BOLT - 3/8-16 X 1.00               | 90-BLT-03816X100  | 2   |       |
| 7    | BOLT - 3/8-16 X 1 1/4              | 90-BLT-03816X125  | 6   |       |
| 8    | BOLT - 1/2-13 X 1.00               | 90-BLT-05013X100  | 2   |       |
| 9    | BOLT - 1/2-13 X 1 1/2              | 90-BLT-05013X150  | 10  |       |
| 10   | BOLT - 5/8-11 X 1 3/4              | 90-BLT-06311X175  | 1   |       |
| 11   | BOLT - 3/4-10 X 2 3/4              | 90-BLT-07510X275  | 4   |       |
| 12   | NUT HEX - 3/8-16                   | 90-NUT-HEX038-16  | 2   |       |
| 13   | NUT HEX - 1/2-13                   | 90-NUT-HEX050-13  | 6   |       |
| 14   | NUT HEX - 3/4-10                   | 90-NUT-HEX075-10  | 4   |       |
| 15   | NUT LOCK - 3/8-16                  | 90-NUT-LOC038-16  | 4   |       |
| 16   | NUT LOCK - 5/8-11                  | 90-NUT-LOC063-11  | 1   |       |
| 17   | PIN CLEVIS - 1.00 DIA X 5.00       | 90-PIN-CL100X500  | 1   |       |
| 18   | LYNCH PIN - 3/16                   | 90-PIN-LYNCH019   | 1   |       |
| 19   | WASHER LOCK - 3/8                  | 90-WSR-LOC038     | 5   |       |
| 20   | WASHER LOCK - 1/2                  | 90-WSR-LOC050     | 12  |       |
| 21   | WASHER LOCK - 3/4                  | 90-WSR-LOC075     | 4   |       |
| 22   | WASHER SAE - 1/2                   | 90-WSR-SAE050     | 4   |       |
| 23   | WASHER SAE - 3/4                   | 90-WSR-SAE075     | 4   |       |
| 24   | CENTER PIVOT MOUNT-CRADLE          | CB-165-033-A      | 1   |       |
| 25   | PIVOT LOCK WELDMENT                | CB-765-001-A      | 1   |       |
| 26   | LOWER PLUMBING WELDMENT            | CB-765-005-A      | 1   |       |
| 27   | HANDLE FOR CENTRAL PIVOT           | CB-765-013-A      | 1   |       |
| 28   | CROSS SUPPORT WELDMENT             | CB-765-018        | 1   |       |
| 29   | PIVOT LOCK MOUNTING BRACKET        | CB-765-022        | 1   |       |
| 30   | UPPER PLUMBING WELDMENT            | CB-765-023        | 1   |       |
| 31   | BEARING SHAFT WELD'T - FLANGE      | CB-765-026        | 2   |       |
| 32   | WASHER UPPER PIVOT BEARING         | CB-765-029        | 2   |       |
| 33   | HOSE - 3.00 CADMAN SUPPLY          | IR-HOZ-300CSSL.FT | 16  |       |

## Boom Section 2 Assembly ●

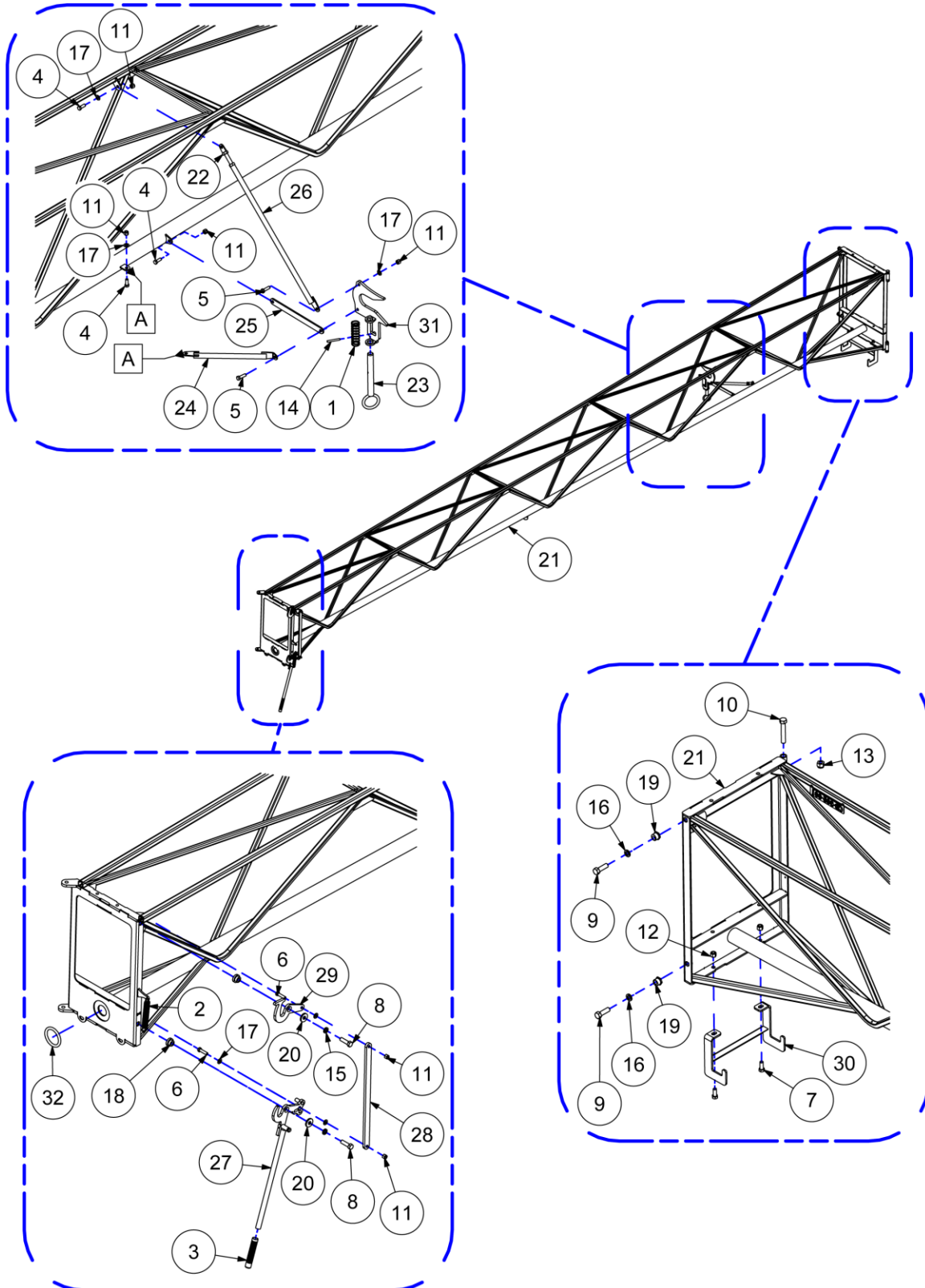




**Boom Section 2 Assembly ●**

| ITEM | DESCRIPTION                      | PART NUMBER       | QTY | NOTES |
|------|----------------------------------|-------------------|-----|-------|
| ◆    | <b>BOOM SECTION 2 ASSEMBLY</b>   | <b>CB-265-000</b> |     | ◆     |
| 1    | SPRING COMP - L1-4 OD0.84 10.7lb | 42-676            | 1   |       |
| 2    | SPRING EXT - L6-9 O.D1.00 38.5Lb | 42-677            | 1   |       |
| 3    | GRIP FITS - 3/4 OD 4.8 OVERALL L | 42-678            | 1   |       |
| 4    | BOLT - 3/8-16 X 1.00             | 90-BLT-03816X100  | 4   |       |
| 5    | BOLT - 3/8-16 X 1 1/2            | 90-BLT-03816X150  | 2   |       |
| 6    | BOLT - 1/2-13 X 1 3/4            | 90-BLT-05013X175  | 2   |       |
| 7    | BOLT - 5/8-11 X 2.00             | 90-BLT-06311X200  | 2   |       |
| 8    | BOLT - 3/4-10 X 2 1/4            | 90-BLT-07510X225  | 2   |       |
| 9    | BOLT - 3/4-10 X 5.00             | 90-BLT-07510X500  | 2   |       |
| 10   | NUT LOCK - 3/8-16                | 90-NUT-LOC038-16  | 6   |       |
| 11   | NUT LOCK - 1/2-13                | 90-NUT-LOC050-13  | 2   |       |
| 12   | NUT LOCK - 3/4-10                | 90-NUT-LOC075-10  | 2   |       |
| 13   | PIN ROLL - 1/4 X 2 1/2           | 90-PIN-RL025X200  | 1   |       |
| 14   | WASHER LOCK - 5/8                | 90-WSR-LOC063     | 2   |       |
| 15   | WASHER LOCK - 3/4                | 90-WSR-LOC075     | 2   |       |
| 16   | WASHER SAE - 3/8                 | 90-WSR-SAE038     | 6   |       |
| 17   | WASHER SAE - 1/2                 | 90-WSR-SAE050     | 3   |       |
| 18   | FLANGED INSERT 1.00 X H063       | CB-026            | 2   |       |
| 19   | MACH- OFFSET PIN OD1.25 H075     | CB-029            | 2   |       |
| 20   | LATCH WASHER H063                | CB-031            | 2   |       |
| 21   | SECOND SECTION WELDMENT          | CB-265-001-A      | 1   |       |
| 22   | LINK ADJUSTABLE END              | CB-765-036        | 1   |       |
| 23   | LATCH PIN WELDMENT               | CB-765-043        | 1   |       |
| 24   | LINK WELD- SECOND SECT LOCK      | CB-765-054-A      | 1   |       |
| 25   | SHORT LINK BENT END              | CB-765-060-A      | 1   |       |
| 26   | VERTICAL LINK L37.5              | CB-765-063-B      | 1   |       |
| 27   | TRANSPORT LATCH WELD'T -2ND      | CB-765-065        | 1   |       |
| 28   | UPPER HOOK - SECTION 2-3         | CB-765-067-A      | 1   |       |
| 29   | LATCH LINK - SECTION 2-3         | CB-765-069-A      | 1   |       |
| 30   | LOWER HOOK WELD - SECTION 2-3    | CB-765-070-A      | 1   |       |
| 31   | 50MM BAUER GASKET                | IR-GKT-BAUER050   | 1   |       |

## Boom Section 3 Assembly ●



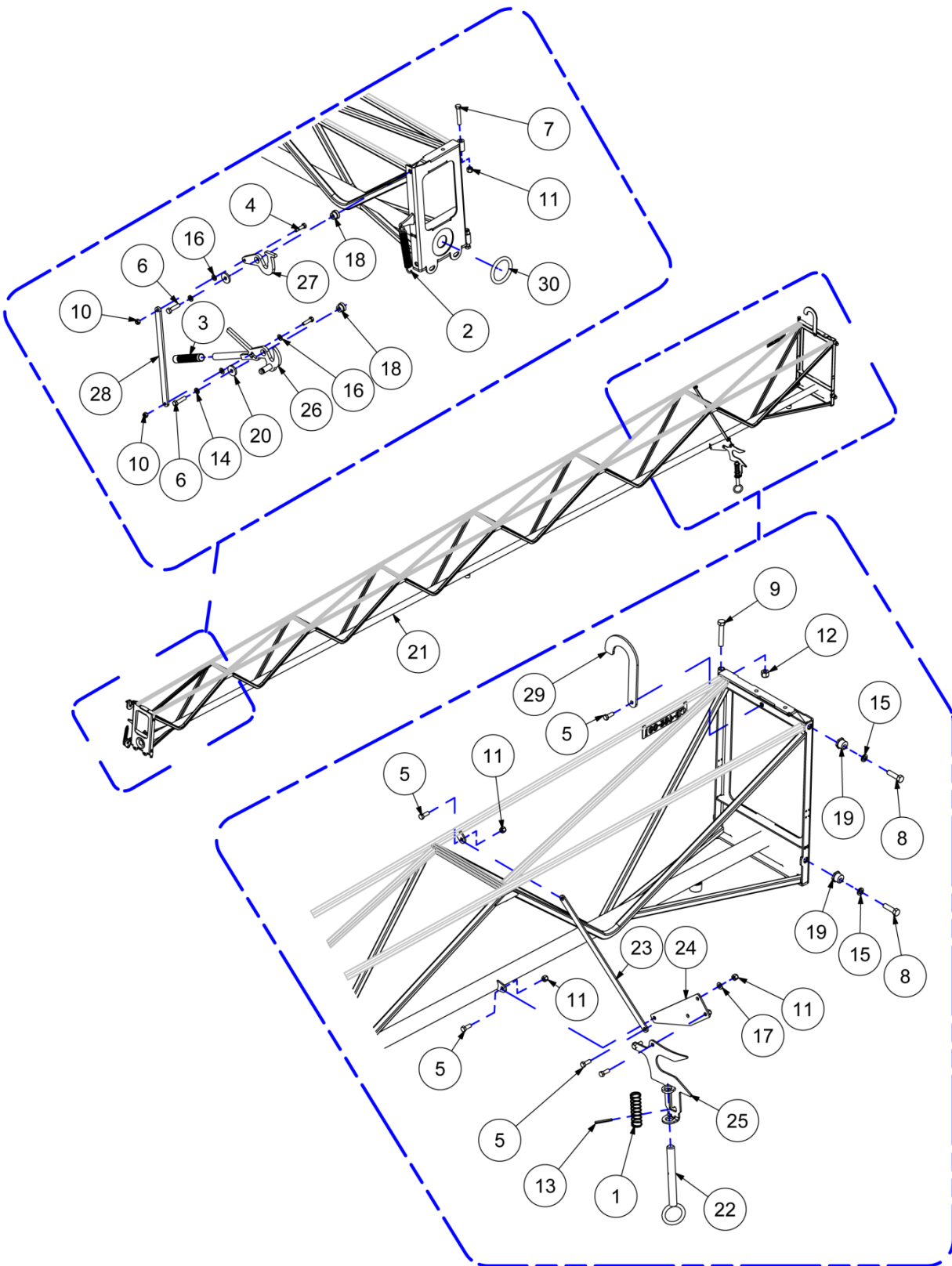




**Boom Section 3 Assembly ●**

| ITEM | DESCRIPTION                              | PART NUMBER       | QTY | NOTES |
|------|--|-------------------|-----|-------|
| ◆    | <b>BOOM SECTION 3 ASSEMBLY</b>           | <b>CB-365-000</b> |     | ◆     |
| 1    | SPRING COMP - L1-4 OD0.84 10.7lb         | 42-676            | 1   |       |
| 2    | SPRING EXT - L6-9 O.D1.00 38.5Lb         | 42-677            | 1   |       |
| 3    | GRIP FITS - 3/4 OD 4.8 OVERALL L         | 42-678            | 1   |       |
| 4    | BOLT - 3/8-16 X 1.00                     | 90-BLT-03816X100  | 3   |       |
| 5    | BOLT - 3/8-16 X 1 1/4                    | 90-BLT-03816X125  | 2   |       |
| 6    | BOLT - 3/8-16 X 1 1/2                    | 90-BLT-03816X150  | 2   |       |
| 7    | BOLT - 1/2-13 X 1 1/4                    | 90-BLT-05013X125  | 2   |       |
| 8    | BOLT - 1/2-13 X 1 3/4                    | 90-BLT-05013X175  | 2   |       |
| 9    | BOLT - 5/8-11 X 2.00                     | 90-BLT-06311X200  | 2   |       |
| 10   | BOLT - 5/8-11 X 3 3/4                    | 90-BLT-06311X375  | 2   |       |
| 11   | NUT LOCK - 3/8-16                        | 90-NUT-LOC038-16  | 7   |       |
| 12   | NUT LOCK - 1/2-13                        | 90-NUT-LOC050-13  | 2   |       |
| 13   | NUT LOCK - 5/8-11                        | 90-NUT-LOC063-11  | 2   |       |
| 14   | PIN ROLL - 1/4 X 2 1/2                   | 90-PIN-RL025X200  | 1   |       |
| 15   | WASHER LOCK - 1/2                        | 90-WSR-LOC050     | 2   |       |
| 16   | WASHER LOCK - 5/8                        | 90-WSR-LOC063     | 2   |       |
| 17   | WASHER SAE - 3/8                         | 90-WSR-SAE038     | 8   |       |
| 18   | FLANGED INSERT 0.88 X H050               | CB-010-A          | 2   |       |
| 19   | MACH - OFFSET PIN OD1.00 H063            | CB-025            | 2   |       |
| 20   | LATCH WASHER H050                        | CB-030            | 2   |       |
| 21   | 3RD SECTION                              | CB-365-001-A      | 1   |       |
| 22   | LINK ADJUSTABLE END                      | CB-765-036        | 1   |       |
| 23   | LATCH PIN WELDMENT                       | CB-765-043        | 1   |       |
| 24   | LINK                                     | CB-765-071-A      | 1   |       |
| 25   | BAR 10.25 IN LONG                        | CB-765-074-A      | 1   |       |
| 26   | VERTICAL LINK                            | CB-765-075        | 1   |       |
| 27   | LOWER HOOK WELD - SECTION 3-4            | CB-765-077-A      | 1   |       |
| 28   | LATCH LINK - SECTION 3-4                 | CB-765-079-A      | 1   |       |
| 29   | UPPER HOOK - SECTION 3-4                 | CB-765-080-A      | 1   |       |
| 30   | SECTION HANGER WELDMENT                  | CB-765-098        | 1   |       |
| 31   | TRANSPORT LATCH WELD'T - 3 <sup>RD</sup> | CB-765-119        | 1   |       |
| 32   | 50MM BAUER GASKET                        | IR-GKT-BAUER050   | 1   |       |

**Boom Section 4 Assembly ●**

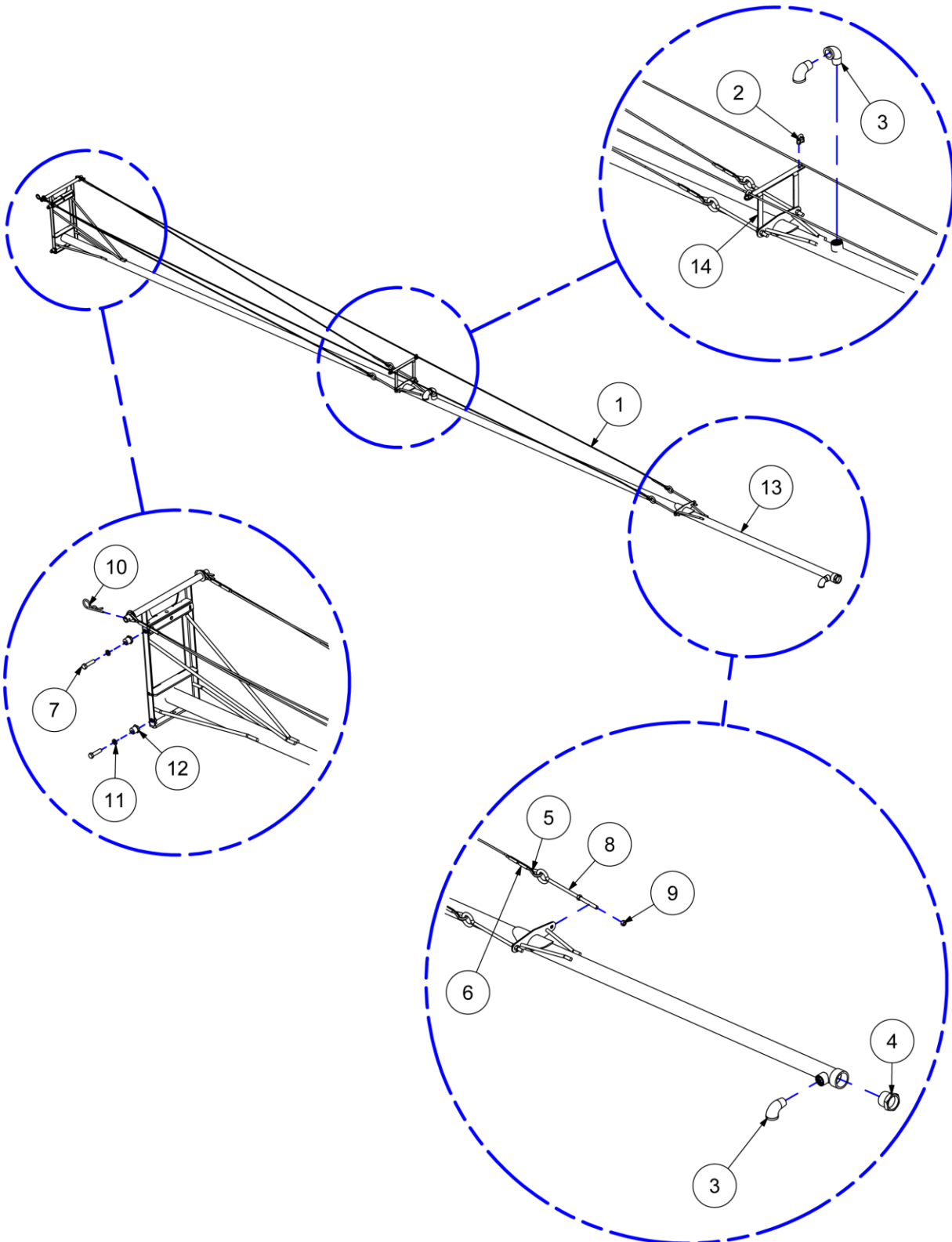




**Boom Section 4 Assembly ●**

| ITEM | DESCRIPTION                      | PART NUMBER       | QTY | NOTES |
|------|----------------------------------|-------------------|-----|-------|
| ◆    | <b>BOOM SECTION 4 ASSEMBLY</b>   | <b>CB-465-000</b> |     | ◆     |
| 1    | SPRING COMP - L1-4 OD0.84 10.7lb | 42-676            | 1   |       |
| 2    | SPRING EXT - L6-9 O.D1.00 38.5Lb | 42-677            | 1   |       |
| 3    | GRIP FITS - 3/4 OD 4.8 OVERALL L | 42-678            | 1   |       |
| 4    | BOLT - 5/16-18 X 1 1/4           | 90-BLT-03118X125  | 2   |       |
| 5    | BOLT - 3/8-16 X 1.00             | 90-BLT-03816X100  | 6   |       |
| 6    | BOLT - 3/8-16 X 1 1/2            | 90-BLT-03816X150  | 2   |       |
| 7    | BOLT - 3/8-16 X 2 1/4            | 90-BLT-03816X225  | 2   |       |
| 8    | BOLT - 1/2-13 X 1 3/4            | 90-BLT-05013X175  | 2   |       |
| 9    | BOLT - 1/2-13 X 3.00             | 90-BLT-05013X300  | 2   |       |
| 10   | NUT LOCK - 5/16-18               | 90-NUT-LOC031-18  | 2   |       |
| 11   | NUT LOCK - 3/8-16                | 90-NUT-LOC038-16  | 8   |       |
| 12   | NUT LOCK - 1/2-13                | 90-NUT-LOC050-13  | 2   |       |
| 13   | PIN ROLL - 1/4 X 2 1/2           | 90-PIN-RL025X200  | 1   |       |
| 14   | WASHER LOCK - 3/8                | 90-WSR-LOC038     | 2   |       |
| 15   | WASHER LOCK - 1/2                | 90-WSR-LOC050     | 2   |       |
| 16   | WASHER SAE - 5/16                | 90-WSR-SAE031     | 3   |       |
| 17   | WASHER SAE - 3/8                 | 90-WSR-SAE038     | 5   |       |
| 18   | MACH -FLANGED INSERT 0.75 X H038 | CB-003            | 2   |       |
| 19   | MACH- OFFSET PIN OD1.00 H050     | CB-011            | 2   |       |
| 20   | LATCH WASHER H038                | CB-012            | 2   |       |
| 21   | FOURTH SECTION WELDMENT          | CB-465-001-A      | 1   |       |
| 22   | LATCH PIN WELDMENT               | CB-765-043        | 1   |       |
| 23   | BAR 17.71 LONG                   | CB-765-081-A      | 1   |       |
| 24   | LATCH - SMALL OUTER BRACKET      | CB-765-082-A      | 1   |       |
| 25   | TRANSPORT LATCH WELD'T - 4TH     | CB-765-083-A      | 1   |       |
| 26   | LOWER HOOK WELD - SECTION 4-5    | CB-765-092-C      | 1   |       |
| 27   | UPPER HOOK - SECTION 4-5         | CB-765-093-C      | 1   |       |
| 28   | LATCH LINK - SECTION 4-5         | CB-765-094-A      | 1   |       |
| 29   | HANGER LASER CUT                 | CB-765-099        | 1   |       |
| 30   | 50MM BAUER GASKET                | IR-GKT-BAUER050   | 1   |       |

## Boom Section 5 Assembly

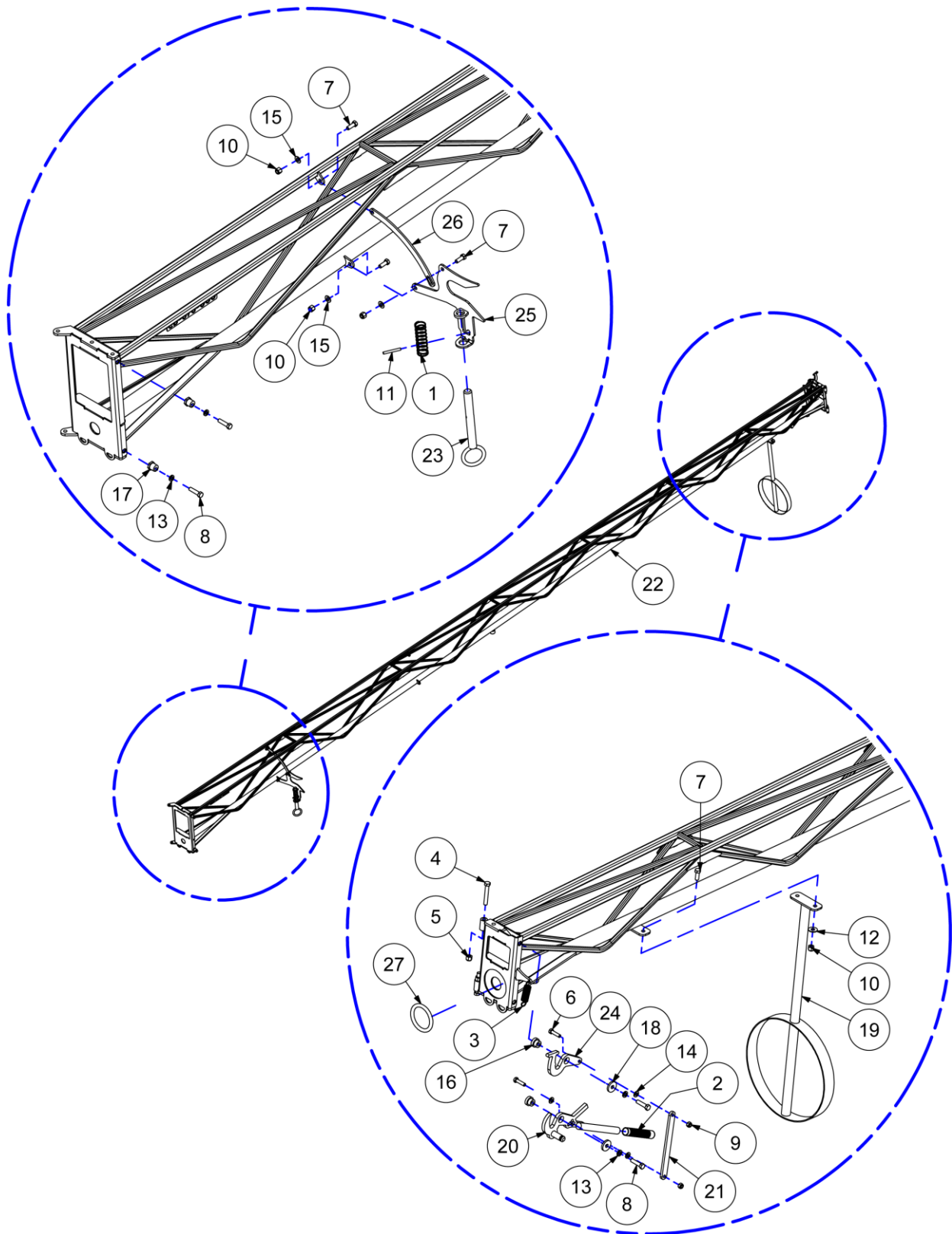




## Boom Section 5 Assembly

| ITEM | DESCRIPTION                     | PART NUMBER          | QTY | NOTES      |
|------|---------------------------------|----------------------|-----|------------|
| ◆    | <b>BOOM SECTION 5 ASSEMBLY</b>  | <b>CB-565-000</b>    |     | <b>64M</b> |
| 1    | AIRCRAFT CABLE - 3/16 IN        | 40-058               | 648 |            |
| 2    | CLAMP CABLE - 1/8               | 40-060               | 2   |            |
| 3    | ELBOW STREET 90° - 3/4" NPT     | 40-NPT-ELS075X90G    | 3   |            |
| 4    | REDUCER - 24NPTM X 20NPTF GAL   | 40-NPT-RB150X125G    | 1   |            |
| 5    | THIMBLE - 5/16 GALV             | 42-780-A             | 6   |            |
| 6    | CLAMP - 0.313 ALUM SWAGE OVAL   | 42-781-A             | 12  |            |
| 7    | BOLT - 3/8-16 X 1 1/2           | 90-BLT-03816X150     | 2   |            |
| 8    | EYE BOLT - 3/8-16 L 8.00 x 4.00 | 90-EBT-03816X800X400 | 4   |            |
| 9    | NUT HEX - 3/8-16                | 90-NUT-HEX038-16GALV | 8   |            |
| 10   | HAIR PIN - 0.017DIA 3.25L       | 90-PIN-HP017X325     | 2   |            |
| 11   | WASHER LOCK - 3/8               | 90-WSR-LOC038        | 2   |            |
| 12   | MACH- OFFSET PIN OD0.75 H038    | CB-005               | 2   |            |
| 13   | END SECTION WELDMENT            | CB-565-001-A         | 1   |            |
| 14   | CENTER CABLE BRACKET - GALV     | CB-565-015           | 1   |            |

**Boom Section 6 Assembly** ◆

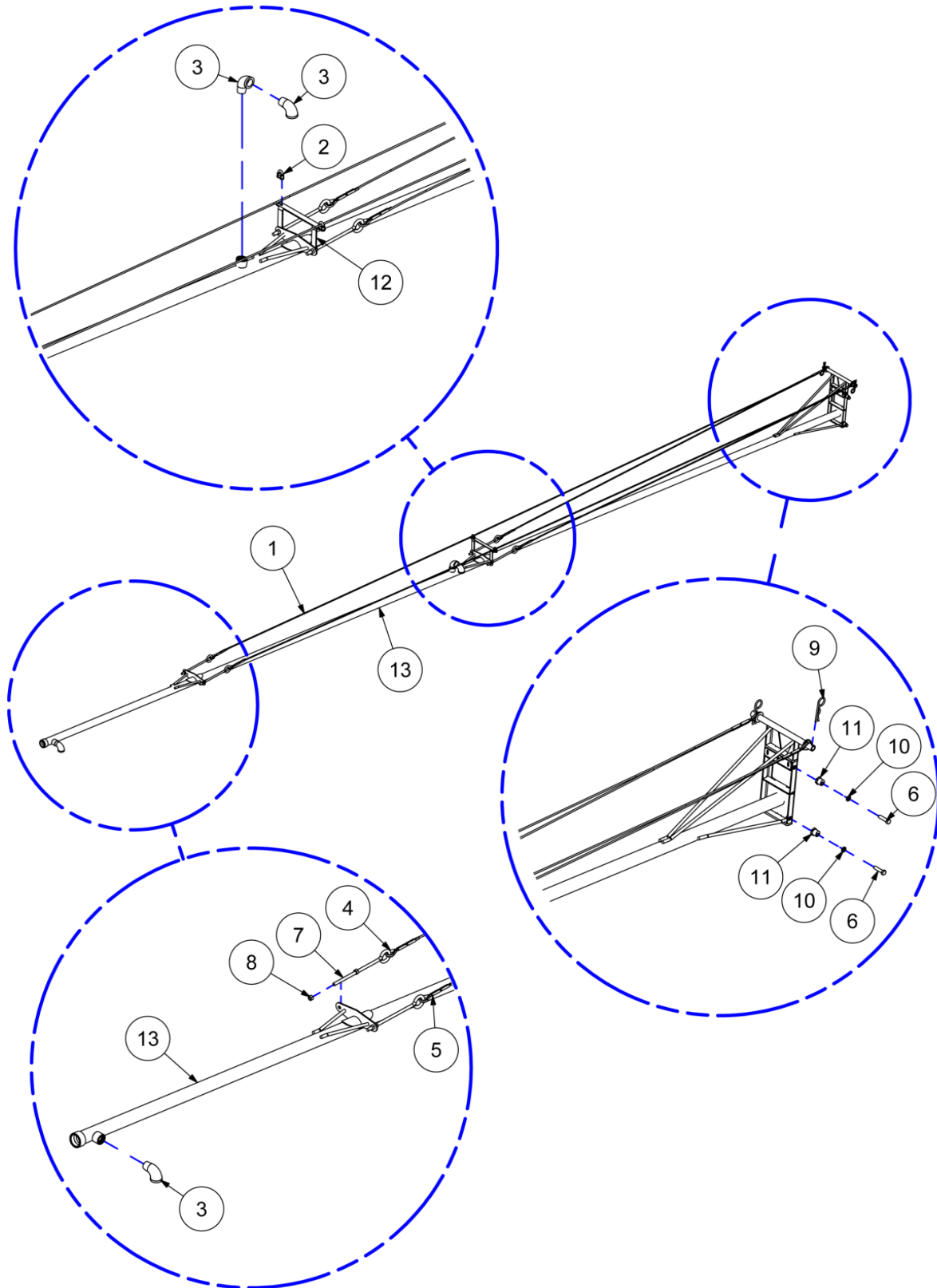




**Boom Section 6 Assembly** ◆

| ITEM | DESCRIPTION                      | PART NUMBER       | QTY | NOTES           |
|------|----------------------------------|-------------------|-----|-----------------|
| ◆    | <b>BOOM SECTION 6 ASSEMBLY</b>   | <b>CB-676-999</b> |     | <b>72M, 76M</b> |
| 1    | SPRING COMP - L1-4 OD0.84 10.7lb | 42-676            | 1   |                 |
| 2    | GRIP FITS - 3/4 OD 4.8 OVERALL L | 42-678            | 1   |                 |
| 3    | EXT-SPRING OD.75 W0.075 L3.00 H  | 42-764-H          | 1   |                 |
| 4    | BOLT GR.8 - 3/8-16 X 2 1/4       | 89-BLT-03816X250  | 2   |                 |
| 5    | NUT LOCK GR.8 - 3/8-16           | 89-NUT-LOC038-16  | 2   |                 |
| 6    | BOLT - 5/16-18 X 1 1/4           | 90-BLT-03118X125  | 2   |                 |
| 7    | BOLT - 3/8-16 X 1.00             | 90-BLT-03816X100  | 5   |                 |
| 8    | BOLT - 3/8-16 X 1 1/2            | 90-BLT-03816X150  | 4   |                 |
| 9    | NUT LOCK - 5/16-18               | 90-NUT-LOC031-18  | 2   |                 |
| 10   | NUT LOCK - 3/8-16                | 90-NUT-LOC038-16  | 5   |                 |
| 11   | PIN ROLL - 1/4 X 2 1/2           | 90-PIN-RL025X200  | 1   |                 |
| 12   | WASHER FLAT - 3/8                | 90-WSR-FLT038     | 2   |                 |
| 13   | WASHER LOCK - 3/8                | 90-WSR-LOC038     | 4   |                 |
| 14   | WASHER SAE - 5/16                | 90-WSR-SAE031     | 3   |                 |
| 15   | WASHER SAE - 3/8                 | 90-WSR-SAE038     | 3   |                 |
| 16   | MACH -FLANGED INSERT 0.75 X H038 | CB-003            | 2   |                 |
| 17   | MACH- OFFSET PIN OD0.75 H038     | CB-005            | 2   |                 |
| 18   | LATCH WASHER H038                | CB-012            | 2   |                 |
| 19   | SPRINKLER GUARD WELDMENT 76M     | CB-576-049        | 1   |                 |
| 20   | LOWER HOOK WELD SECTION 5-6      | CB-576-050        | 1   |                 |
| 21   | LATCH LINK - SECTION 4-5         | CB-576-052        | 1   |                 |
| 22   | SIXTH SECTION WELDMENT 76/72 M   | CB-676-000        | 1   |                 |
| 23   | LATCH PIN WELDMENT               | CB-765-043        | 1   |                 |
| 24   | UPPER HOOK - SECTION 4-5         | CB-765-093-C      | 1   |                 |
| 25   | TRANSPORT LATCH WELDMENT 76M     | CB-765-134        | 1   |                 |
| 26   | PLATE CURVE CATCH LINK 5-6       | CB-765-135-A      | 1   |                 |
| 27   | 50MM BAUER GASKET                | IR-GKT-BAUER050   | 1   |                 |

**Boom Section 7 Assembly** ◆



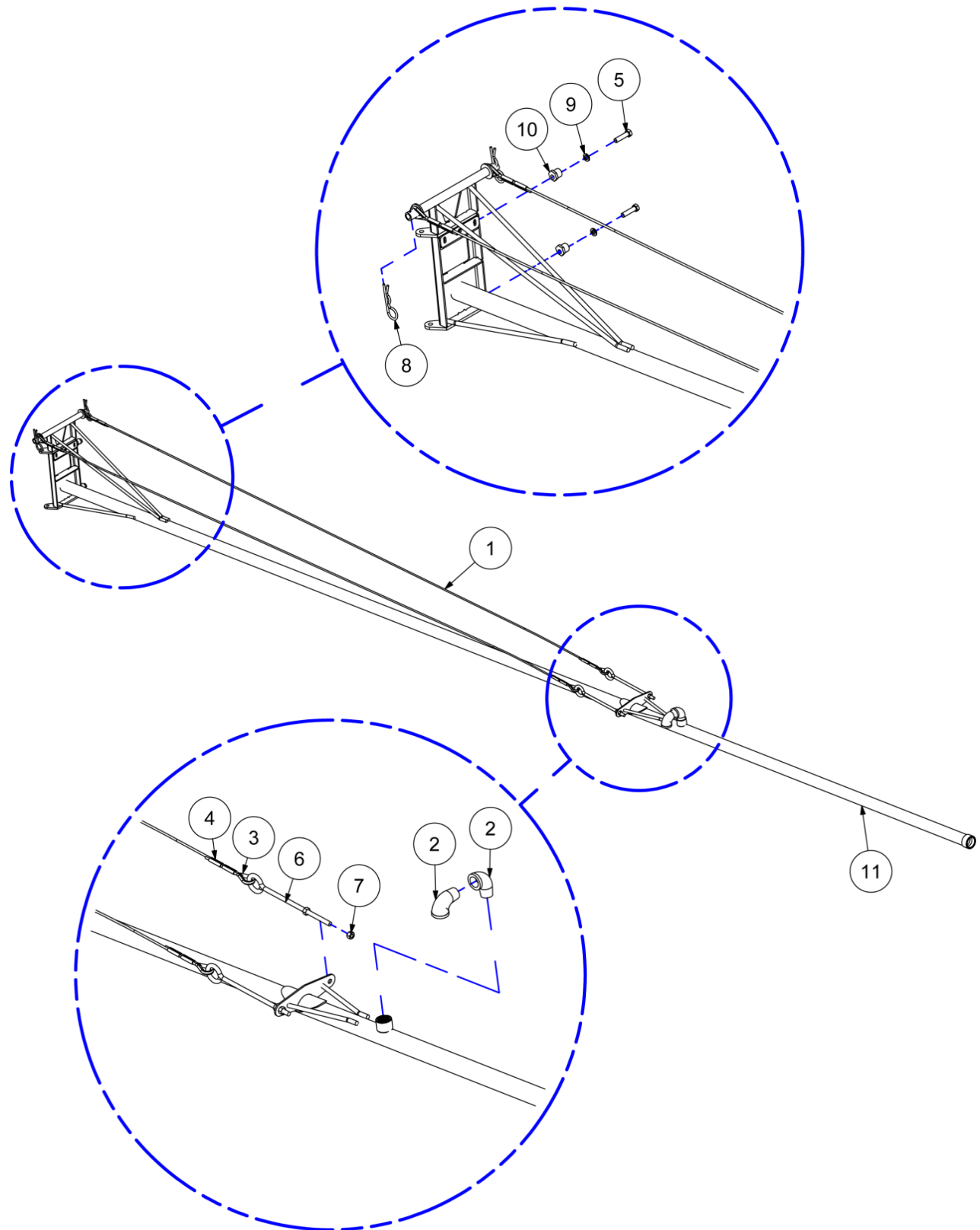




**Boom Section 7 Assembly** ◆

| ITEM | DESCRIPTION                     | PART NUMBER          | QTY | NOTES      |
|------|---------------------------------|----------------------|-----|------------|
| ◆    | <b>BOOM SECTION 7 ASSEMBLY</b>  | <b>CB-776-999</b>    |     | <b>76M</b> |
| 1    | AIRCRAFT CABLE - 3/16 IN        | 40-058               | 2   |            |
| 2    | CLAMP CABLE - 1/8               | 40-060               | 2   |            |
| 3    | ELBOW STREET 90° - 3/4" NPT     | 40-NPT-ELS075X90G    | 3   |            |
| 4    | THIMBLE - 5/16 GALV             | 42-780-A             | 6   |            |
| 5    | CLAMP - 0.313 ALUM SWAGE OVAL   | 42-781-A             | 12  |            |
| 6    | BOLT - 3/8-16 X 1 1/2           | 90-BLT-03816X150     | 2   |            |
| 7    | EYE BOLT - 3/8-16 L 8.00 x 4.00 | 90-EBT-03816X800X400 | 4   |            |
| 8    | NUT HEX - 3/8-16                | 90-NUT-HEX038-16GALV | 8   |            |
| 9    | HAIR PIN - 0.017DIA 3.25L       | 90-PIN-HP017X325     | 2   |            |
| 10   | WASHER LOCK - 3/8               | 90-WSR-LOC038        | 2   |            |
| 11   | MACH- OFFSET PIN OD0.75 H038    | CB-005               | 2   |            |
| 12   | PLATE CABLE BRACKET 76M         | CB-676-008           | 1   |            |
| 13   | END 7TH SECTION WELDMENT 76M    | CB-776-000           | 1   |            |

## Boom Section 8 Assembly

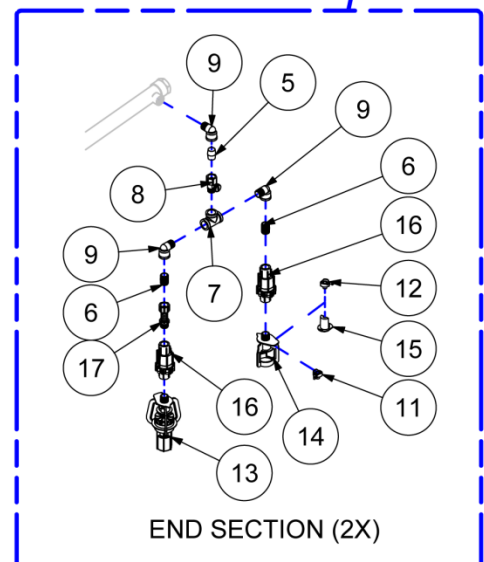
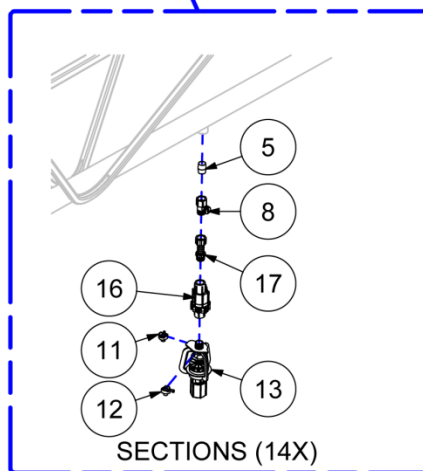
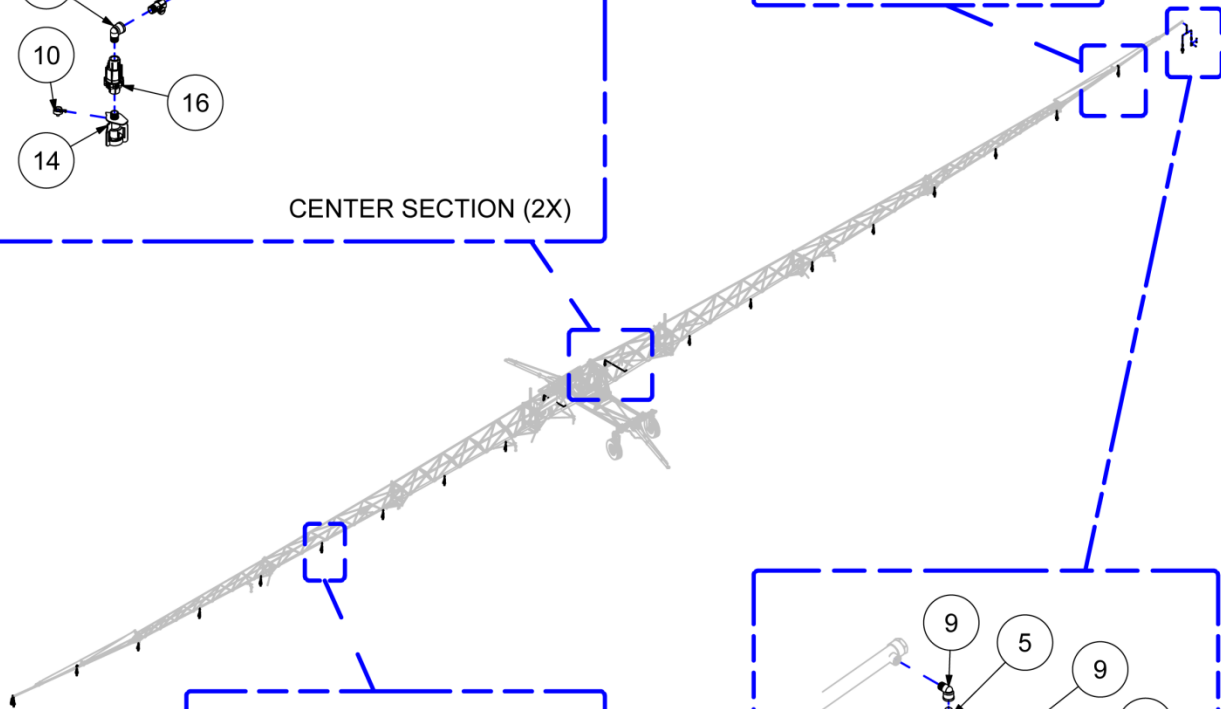
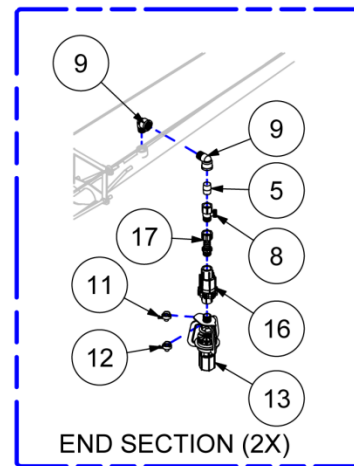
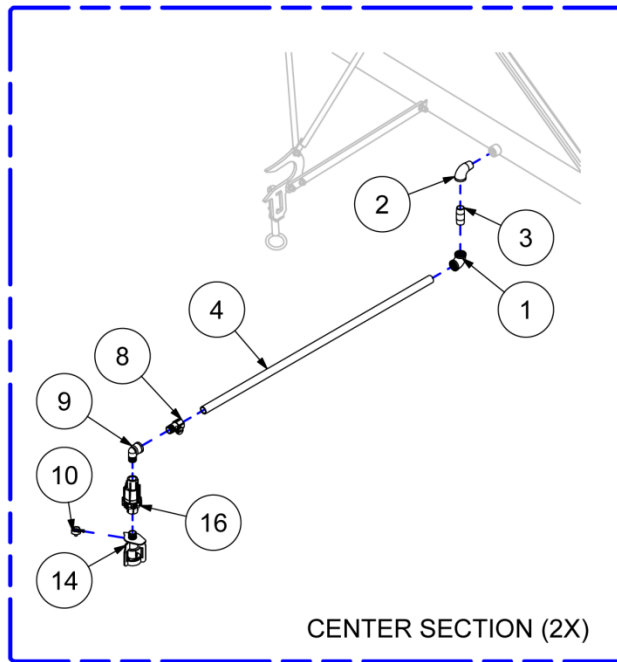




**Boom Section 8 Assembly** ◆

| ITEM | DESCRIPTION                      | PART NUMBER          | QTY | NOTES      |
|------|----------------------------------|----------------------|-----|------------|
| ◆    | <b>BOOM SECTION 8 ASSEMBLY</b>   | <b>CB-872-999</b>    |     | <b>72M</b> |
| 1    | AIRCRAFT CABLE - 3/16 IN         | 40-058               | 650 |            |
| 2    | ELBOW STREET 90° - 3/4" NPT GALV | 40-NPT-ELS075X90G    | 2   |            |
| 3    | THIMBLE - 5/16 GALV              | 42-780-A             | 4   |            |
| 4    | CLAMP - 0.313 ALUM SWAGE OVAL    | 42-781-A             | 8   |            |
| 5    | BOLT - 3/8-16 X 1 1/2            | 90-BLT-03816X150     | 2   |            |
| 6    | EYE BOLT - 3/8-16 L 8.00 x 4.00  | 90-EBT-03816X800X400 | 2   |            |
| 7    | NUT HEX - 3/8-16                 | 90-NUT-HEX038-16GALV | 4   |            |
| 8    | HAIR PIN - 0.017DIA 3.25L        | 90-PIN-HP017X325     | 2   |            |
| 9    | WASHER LOCK - 3/8                | 90-WSR-LOC038        | 2   |            |
| 10   | MACH- OFFSET PIN OD0.75 H038     | CB-005               | 2   |            |
| 11   | END 8TH SECTION WELDMENT 72M     | CB-872-000           | 1   |            |

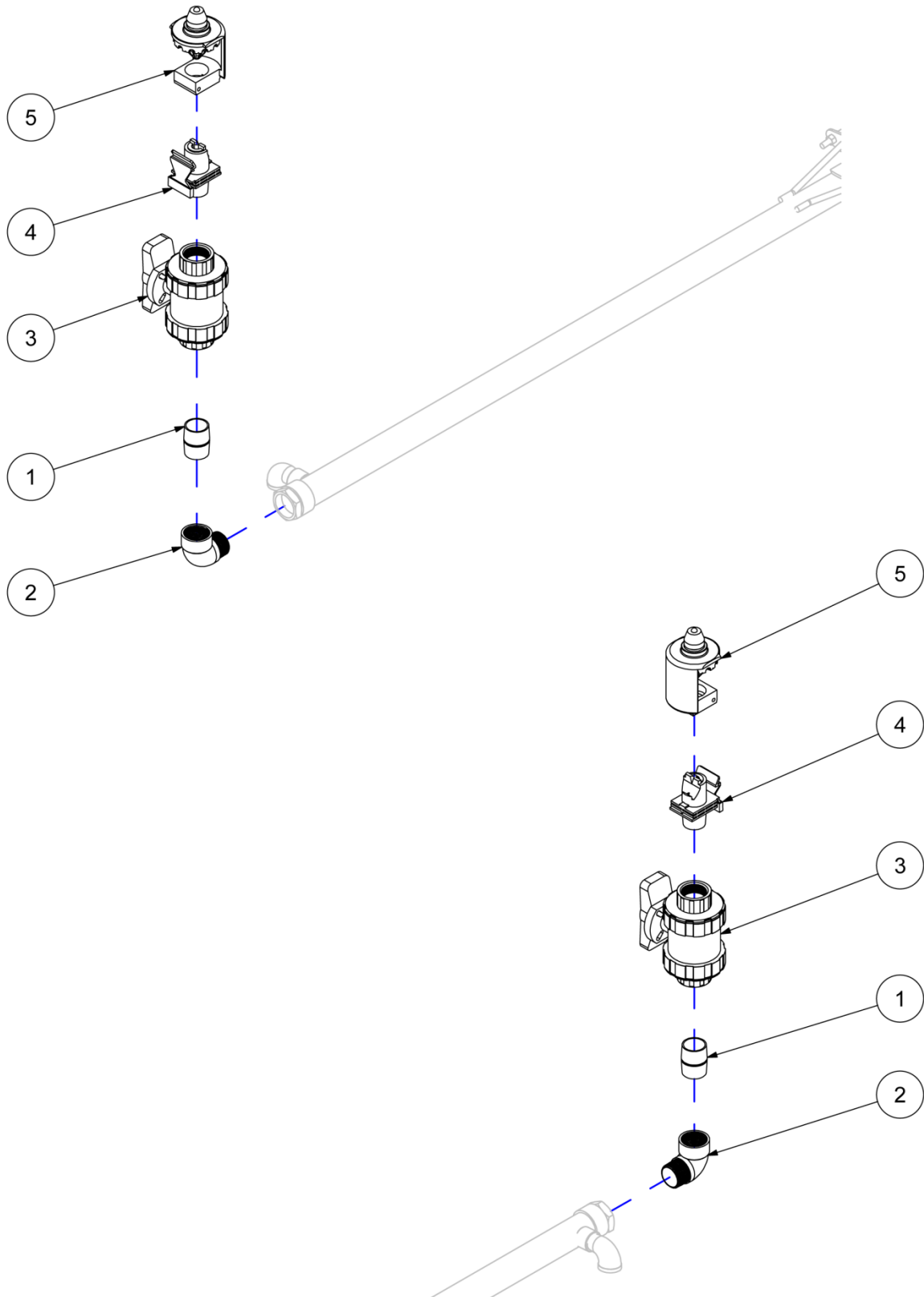
### Sprinkler Kit Assembly - Komet



**Sprinkler Kit Assembly - Komet** ◆

| ITEM | DESCRIPTION                          | PART NUMBER          | QTY | NOTES      |
|------|--------------------------------------|----------------------|-----|------------|
| ●    | <b>KOMET SPRINKLER KIT - 64 BOOM</b> | <b>CB-KIT-64KSPR</b> |     | <b>64M</b> |
| ◆    | <b>KOMET SPRINKLER KIT - 72 BOOM</b> | <b>CB-KIT-72KSPR</b> |     | <b>72M</b> |
| ◆    | <b>KOMET SPRINKLER KIT - 72 BOOM</b> | <b>CB-KIT-76KSPR</b> |     | <b>76M</b> |
| 1    | ELBOW - 3/4 NPT X 90° GALV           | 40-NPT-ELB075X90G    | 2   |            |
| 2    | ELBOW STREET 90° - 3/4" NPT GALV     | 40-NPT-ELS075X90G    | 2   |            |
| 3    | NIPPLE - 3/4 NPT X 2 1/2 GALV.       | 40-NPT-NPL075X250G   | 2   |            |
| 4    | NIPPLE - 3/4 NPT X 44 INCHES LONG    | 40-NPT-NPL075X4400G  | 2   |            |
| 5    | NIPPLE CLOSE - 3/4 NPT GALV          | 40-NPT-NPLC075G      | 18  | 64M        |
| ↳    | NIPPLE CLOSE - 3/4 NPT GALV          | 40-NPT-NPLC075G      | 24  | 72M        |
| ↳    | NIPPLE CLOSE - 3/4 NPT GALV          | 40-NPT-NPLC075G      | 24  | 76M        |
| 6    | NIPPLE CLOSE - 3/4 NPT PVC           | 40-NPT-NPLC075P      | 4   |            |
| 7    | TEE - 3/4 NPTF GALV                  | 40-NPT-TEE075G       | 2   |            |
| 8    | VALVE BALL - 3/4 NPTM X NPTF PVC     | 40-NPT-VLV-075BLPMXF | 20  | 64M        |
| ↳    | VALVE BALL - 3/4 NPTM X NPTF PVC     | 40-NPT-VLV-075BLPMXF | 24  | 72M        |
| ↳    | VALVE BALL - 3/4 NPTM X NPTF PVC     | 40-NPT-VLV-075BLPMXF | 24  | 76M        |
| 9    | ELBOW - 3/4 PVC NPTM X NPTF          | BR-PRT-412-007       | 12  |            |
| 10   | KOMET 28 RAPID FIT NOZZLE - BLUE     | SP-KOM-05010-28      | 2   |            |
| 11   | KOMET 39 RAPID FIT NOZZLE - BLACK    | SP-KOM-05010-39      | 20  | 64M        |
| ↳    | KOMET 39 RAPID FIT NOZZLE - BLACK    | SP-KOM-05010-39      | 24  | 72M        |
| ↳    | KOMET 39 RAPID FIT NOZZLE - BLACK    | SP-KOM-05010-39      | 24  | 76M        |
| 12   | KOMET 48 RAPID FIT NOZZLE - DRKBLU   | SP-KOM-05010-48      | 20  | 64M        |
| ↳    | KOMET 48 RAPID FIT NOZZLE - DRKBLU   | SP-KOM-05010-48      | 24  | 72M        |
| ↳    | KOMET 48 RAPID FIT NOZZLE - DRKBLU   | SP-KOM-05010-48      | 24  | 76M        |
| 13   | KOMET TWISTER W YELLOW PLATE         | SP-KOM-05010204      | 18  | 64M        |
| ↳    | KOMET TWISTER W YELLOW PLATE         | SP-KOM-05010204      | 24  | 72M        |
| ↳    | KOMET TWISTER W YELLOW PLATE         | SP-KOM-05010204      | 24  | 76M        |
| 14   | KOMET PRECISION SPRAY                | SP-KOM-05010205      | 4   |            |
| 15   | KOMET KPS PC-180 DEFLECTOR           | SP-KOM-05010206      | 4   |            |
| 16   | KOMET 20 PSI PRECISION REGULATOR     | SP-KOM-05010309      | 22  | 64M        |
| ↳    | KOMET 20 PSI PRECISION REGULATOR     | SP-KOM-05010309      | 26  | 72M        |
| ↳    | KOMET 20 PSI PRECISION REGULATOR     | SP-KOM-05010309      | 26  | 76M        |
| 17   | KOMET KPT LINK                       | SP-KOM-05010333      | 18  | 64M        |
| ↳    | KOMET KPT LINK                       | SP-KOM-05010333      | 24  | 72M        |
| ↳    | KOMET KPT LINK                       | SP-KOM-05010333      | 24  | 76M        |

### End Sprinkler Kit - R55 ◆

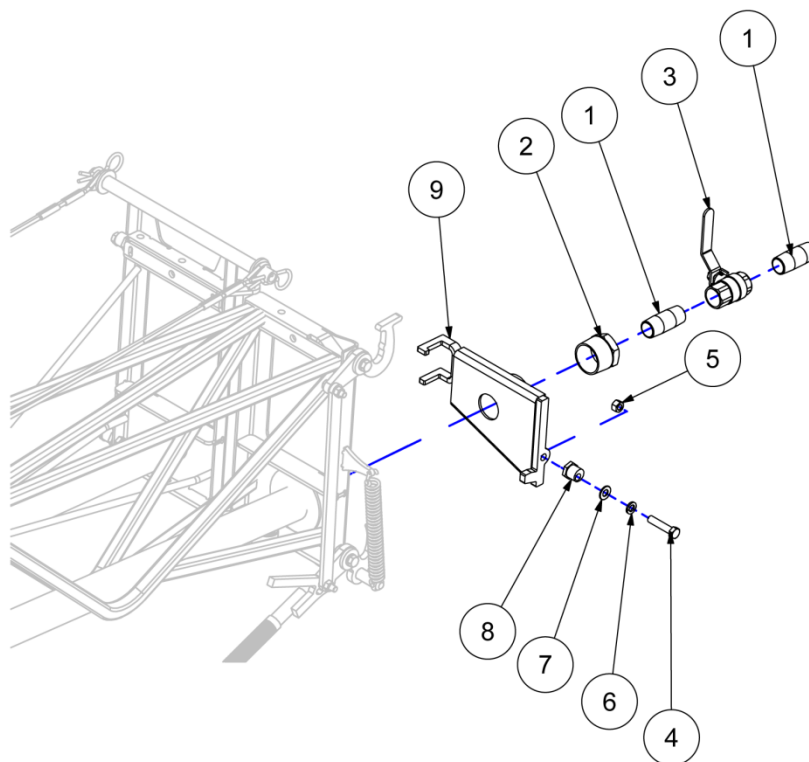
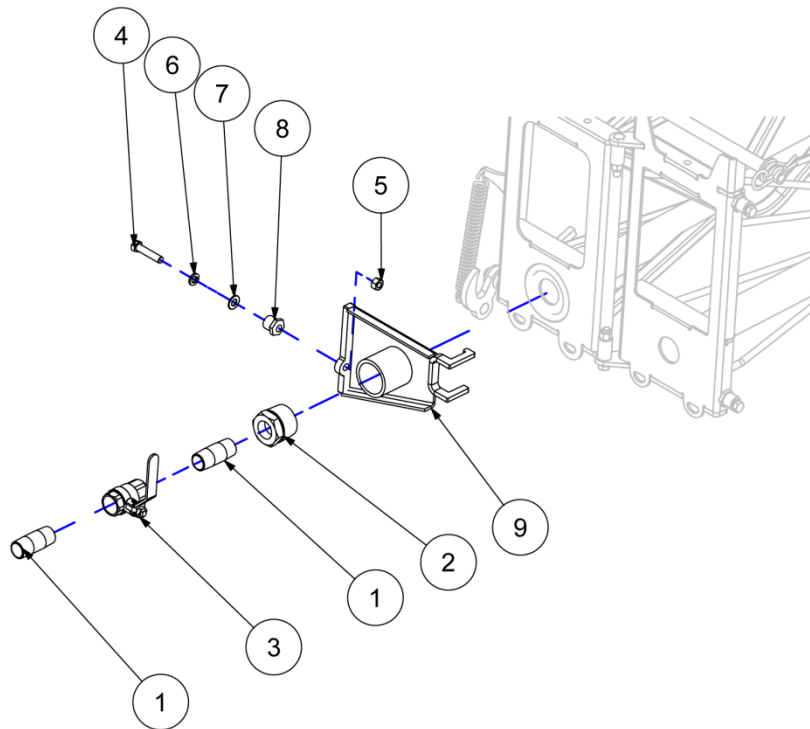




**End Sprinkler Kit - R55** ◆

| ITEM | DESCRIPTION                      | PART NUMBER          | QTY | NOTES |
|------|----------------------------------|----------------------|-----|-------|
| ◆    | <b>END SPRINKLER KIT - R55</b>   | <b>CB-KIT-EGPR55</b> |     | ◆     |
| 1    | NIPPLE CLOSE - 1.25" GALV.       | 40-NPT-NPLC125G      | 2   |       |
| 2    | 1 1/4 PVC SCH 40 90 DEG ELBOW MP | BR-PRT-412-012       | 2   |       |
| 3    | BALL VALVE - 1 1/4 TU 2000 PVC   | BR-PRT-3629-012      | 2   |       |
| 4    | NOZZLE ASSY - SNAP FIT NPT - 52  | SP-NEL-12679-052     | 2   |       |
| 5    | BODY ASSY - BLUE PLATE - R55 VT  | SP-NEL-12885         | 2   |       |

## Blanking Plate Assembly



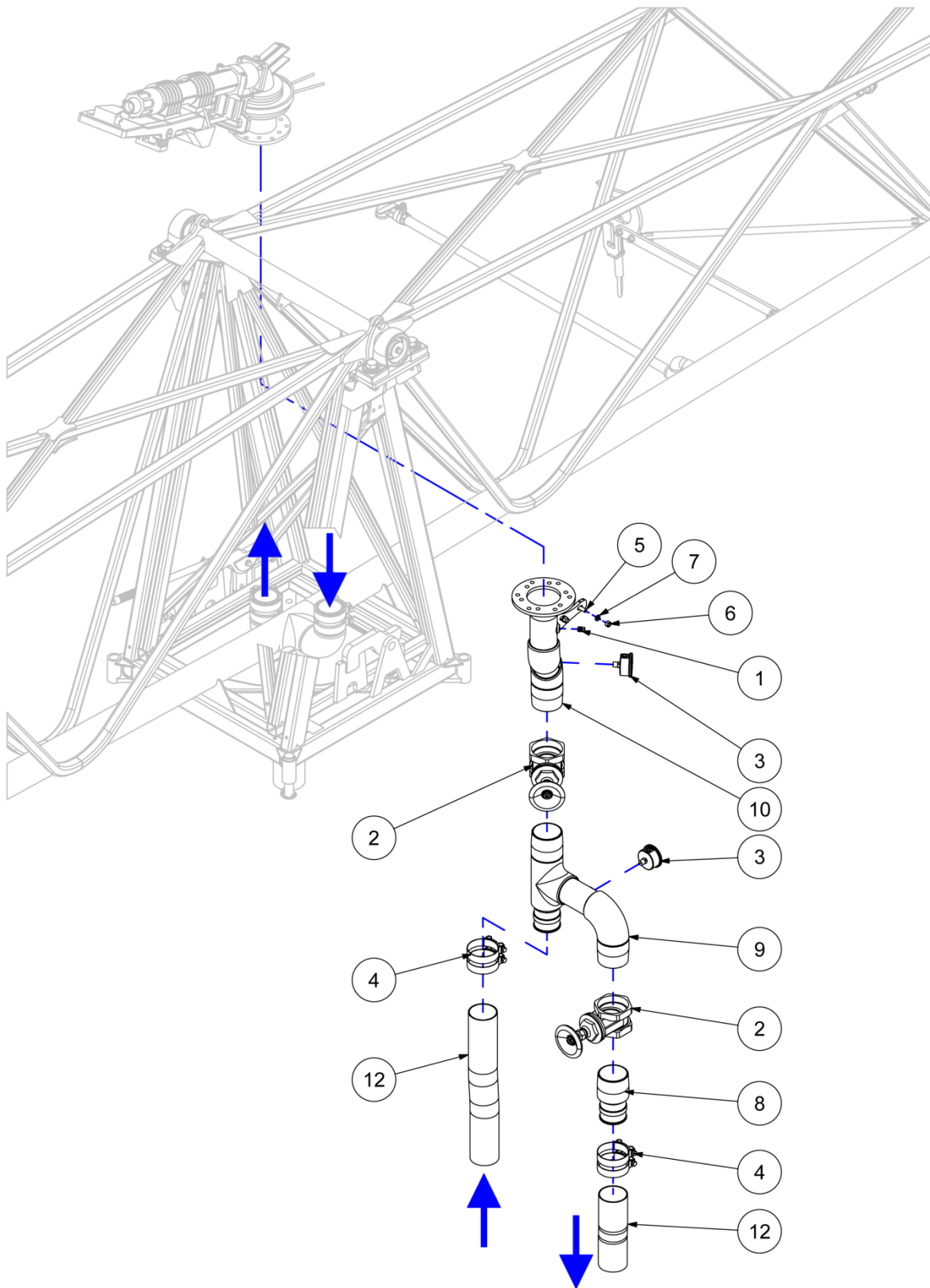




**Blanking Plate Assembly** ◆

| ITEM | DESCRIPTION                        | PART NUMBER        | QTY | NOTES           |
|------|------------------------------------|--------------------|-----|-----------------|
| ◆    | <b>KIT - 64M BLANKING PLATE</b>    | <b>CB-KIT-64BP</b> |     | <b>64M</b>      |
| ◆    | <b>KIT - 76M BLANKING PLATE</b>    | <b>CB-KIT-76BP</b> |     | <b>72M, 76M</b> |
| 1    | NIPPLE - 3/4 NPT X 2 1/2 GALV.     | 40-NPT-NPL075X250G | 4   |                 |
| 2    | REDUCER - 1 1/2 NPT X 3/4 NPT GALV | 40-NPT-RB150X075G  | 2   |                 |
| 3    | BALL VALVE - 3/4 NPTF X NPTF       | 40-NPT-VLV075BLLFF | 2   |                 |
| 4    | BOLT - 3/8-16 X 1 3/4              | 90-BLT-03816X175   | 2   |                 |
| 5    | NUT HEX - 3/8-16                   | 90-NUT-HEX038-16   | 2   |                 |
| 6    | WASHER LOCK - 3/8                  | 90-WSR-LOC038      | 2   |                 |
| 7    | WASHER SAE - 3/8                   | 90-WSR-SAE038      | 2   |                 |
| 8    | MACH- OFFSET PIN OD0.75 H038       | CB-005             | 2   |                 |
| 9    | BLANKING PLATE BRACKET             | CB-023-A           | 2   | 64M             |
| ↳    | BLANKING PLATE BRACKET             | CB-043             | 2   | 72M, 76M        |

## Center Sprinkler Assembly ♦

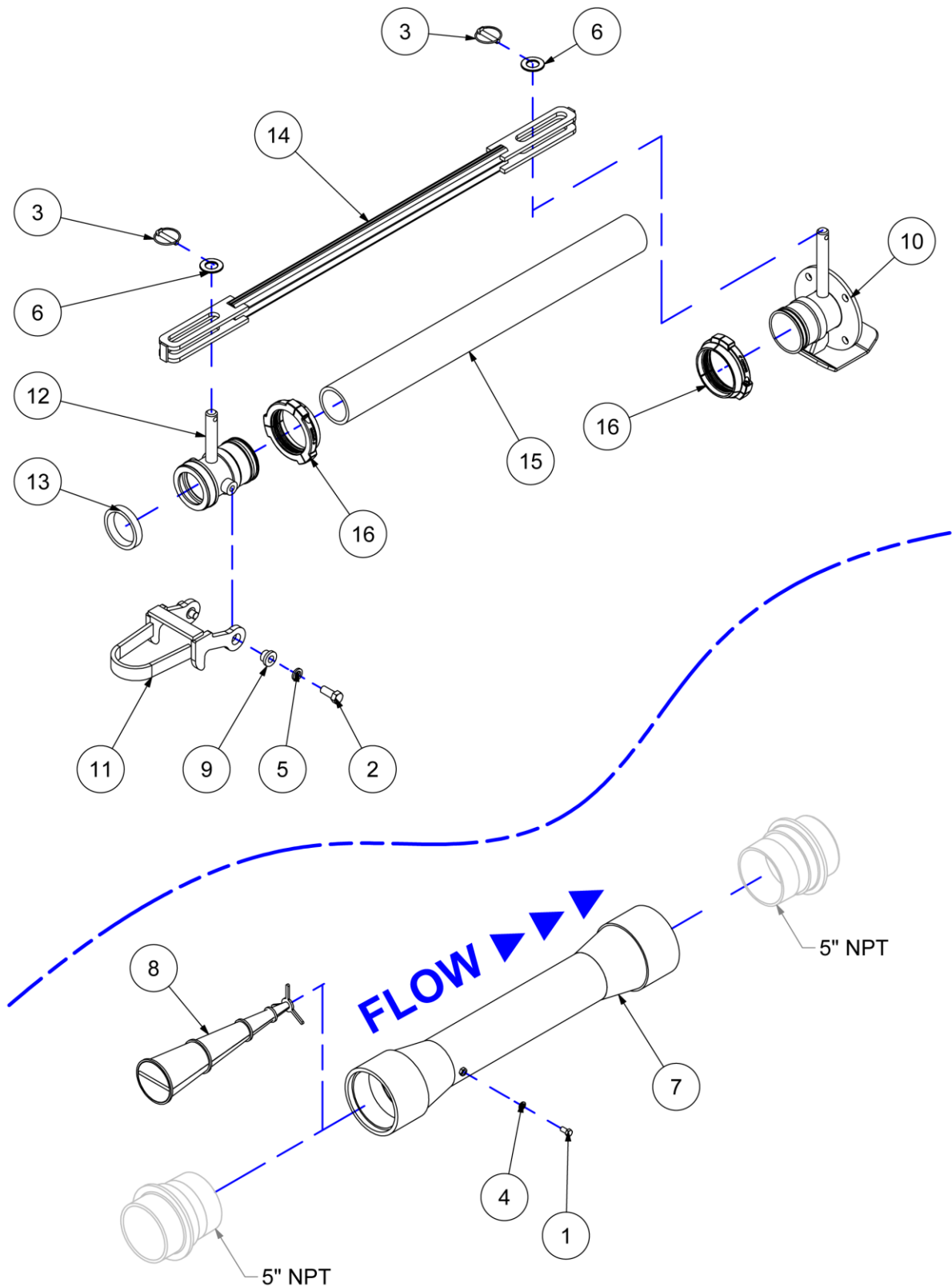




**Center Sprinkler Assembly** ◆

| ITEM | DESCRIPTION                     | PART NUMBER        | QTY | NOTES |
|------|---------------------------------|--------------------|-----|-------|
| ◆    | <b>KIT - CENTER SPRINKLER</b>   | <b>CB-KIT-CS64</b> |     | ◆     |
| 1    | PLUG - 1/4-NPT                  | 40-NPT-PLG025G     | 1   |       |
| 2    | GATE VALVE - 3.00               | 40-NPT-VLV300GATFF | 2   |       |
| 3    | GAUGE - 0-160 PSI WET           | 45-059             | 2   |       |
| 4    | CLAMP - M8 80-85 (3.15-3.38 IN) | 50-065             | 4   |       |
| 5    | BOLT - 3/8-16 X 1 1/4           | 90-BLT-03816X125   | 2   |       |
| 6    | NUT HEX - 3/8-16                | 90-NUT-HEX038-16   | 2   |       |
| 7    | WASHER LOCK - 3/8               | 90-WSR-LOC038      | 2   |       |
| 8    | ADAPTER - 3.00 BARB/NIPPLE      | CB-165-052         | 1   |       |
| 9    | LOWER PIPE WELDMENT CS OPT 64   | CB-165-054         | 1   |       |
| 10   | UPPER PIPE WELDMENT CS OPT      | CB-165-074         | 1   |       |
| 12   | HOSE - 3.00 CADMAN SUPPLY       | IR-HOZ-300CSSL.FT  | 2   |       |

**Inlet Accessories** ◆

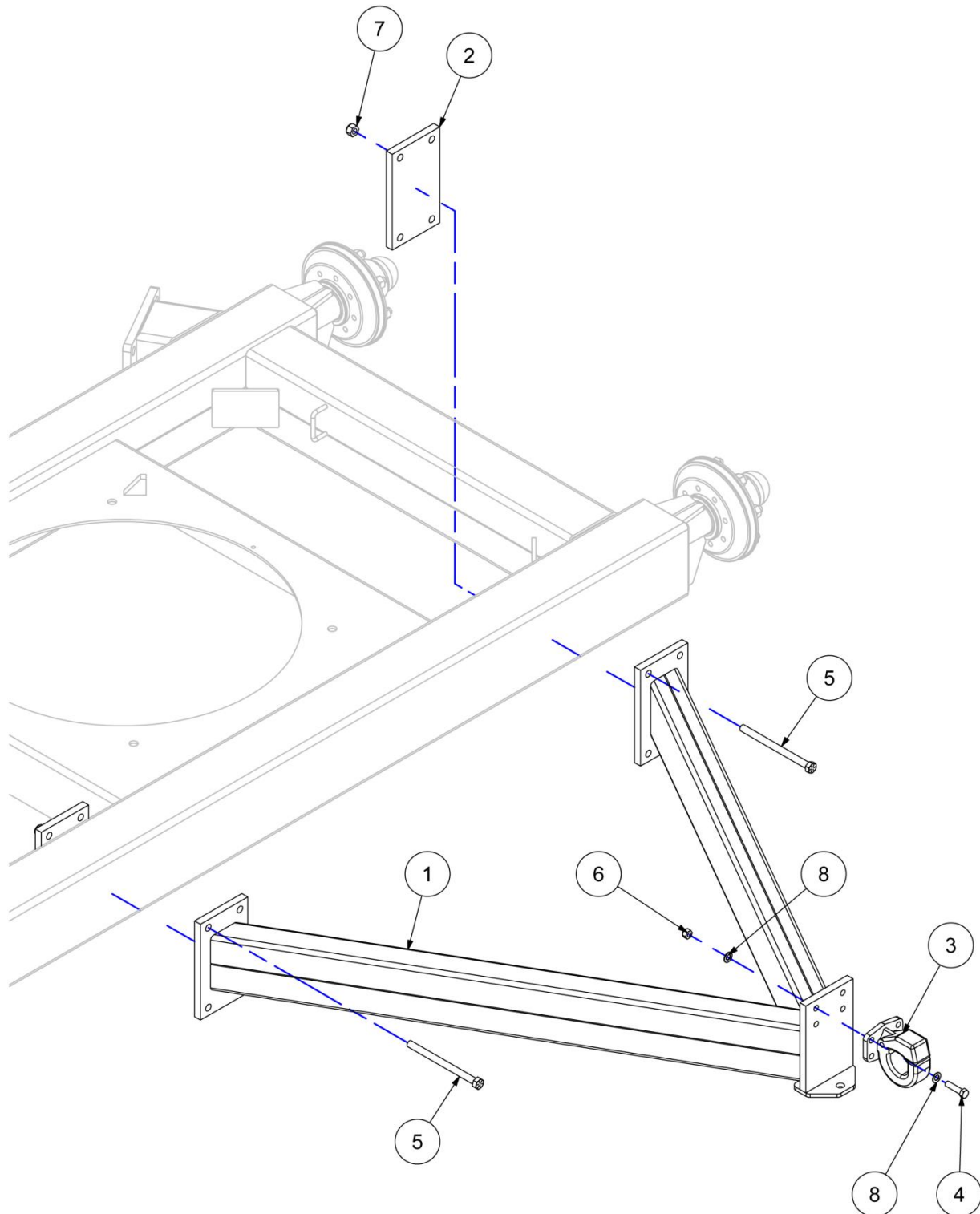




**Inlet Accessories** ◆

| ITEM | DESCRIPTION                           | PART NUMBER       | QTY | NOTES |
|------|---------------------------------------|-------------------|-----|-------|
| ◆    | <b>IN-LINE FILTER FOR CADMAN BOOM</b> | <b>CB-PRT-FLT</b> |     | ◆     |
| ◆    | <b>LAYFLAT CONNECTOR FOR BOOM</b>     | <b>CB-KIT-LC</b>  |     | ◆     |
| 1    | BOLT - 3/8-16 X 3/4                   | 90-BLT-03816X075  | 1   |       |
| 2    | BOLT - 5/8-11 X 1 1/2                 | 90-BLT-06311X150  | 2   |       |
| 3    | LYNCH PIN - STANDARD                  | 90-PIN-LYNCH      | 2   |       |
| 4    | WASHER SEALING - 3/8                  | 90-WSR-BS038      | 1   |       |
| 5    | WASHER LOCK - 5/8                     | 90-WSR-LOC063     | 2   |       |
| 6    | WASHER SAE - 1.00                     | 90-WSR-SAE100     | 2   |       |
| 7    | INLINE FILTER TUBE WELDMENT           | BR-PRT-066        | 1   |       |
| 8    | INLINE FILTER SCREEN                  | BR-PRT-069-C      | 1   |       |
| 9    | MACH - FLANGED INSERT 1.00X0.50       | CB-013            | 2   |       |
| 10   | WELD LAYFLAT BARB FLG                 | CB-020-B          | 1   |       |
| 11   | LOCKING HOOK WELD - LC                | CB-034            | 1   |       |
| 12   | FEMALE LAYFLAT END WELDMENT           | CB-036            | 1   |       |
| 13   | PULL COUPLING LIP SEAL                | CB-037            | 1   |       |
| 14   | CART SLOTTED LINK WELDMENT            | CB-665-126        | 1   |       |
| 15   | PREMIUM SUPPLY HOSE - 4 IN            | IR-HOZ-400CPSL/FT | 1   |       |
| 16   | HOSE CLAMP - 4.00 SINGLE BARB         | IR-MIS-20063      | 2   |       |

**Boom Hitch Kit** ◆

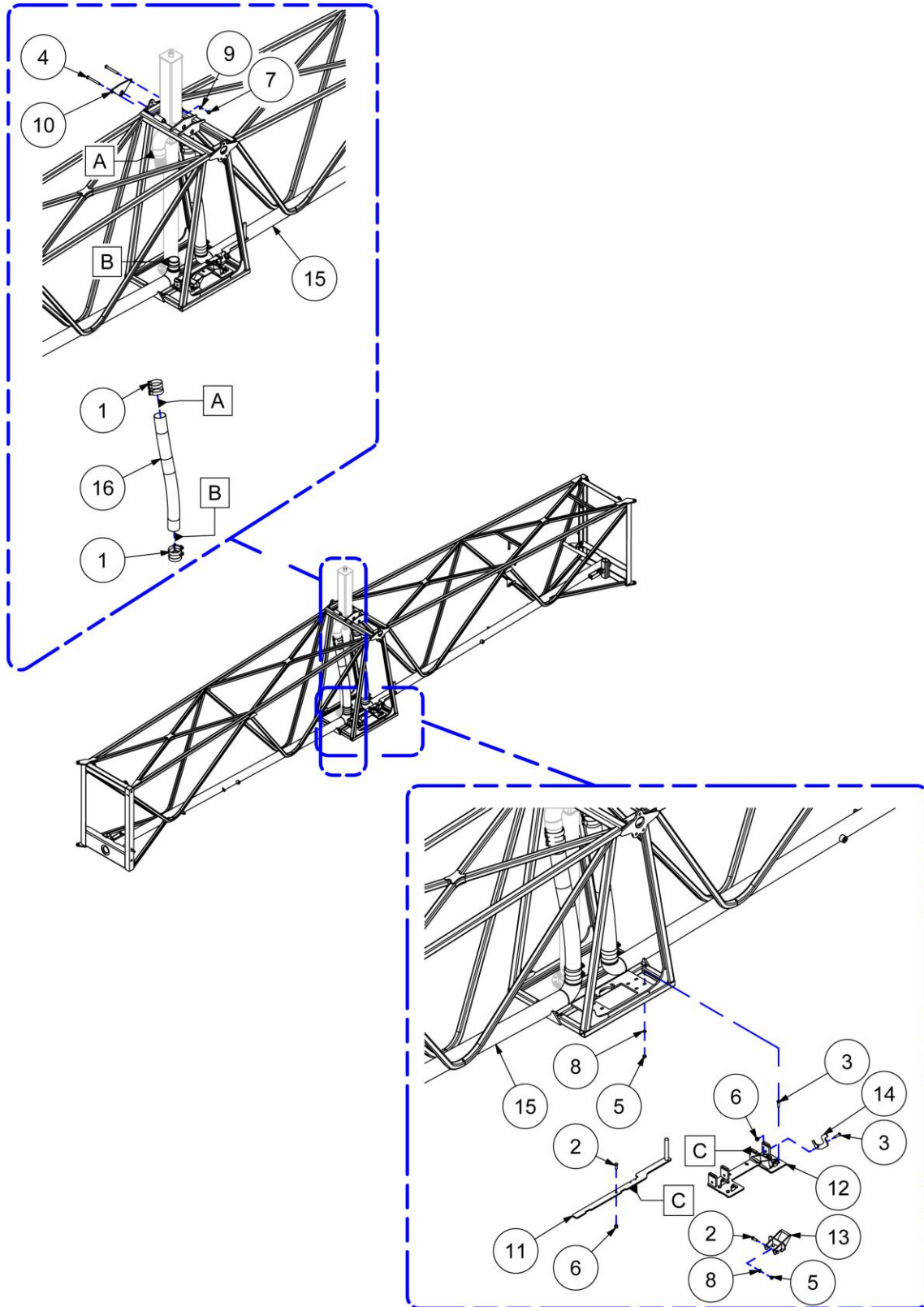




**Boom Hitch Kit** ◆

| ITEM | DESCRIPTION                | PART NUMBER      | QTY | NOTES |
|------|----------------------------|------------------|-----|-------|
| ◆    | <b>BOOM HITCH KIT</b>      | <b>TR-KIT-BH</b> |     | ◆     |
| 1    | BOOM HITCH                 | 05-641           | 1   |       |
| 2    | MOUNTING PLATE - PAINTED   | 05-642           | 2   |       |
| 3    | PINTLE HITCH               | 40-800           | 1   |       |
| 4    | BOLT GR.8 - 1/2-13 X 2.00  | 89-BLT-05013X200 | 4   |       |
| 5    | BOLT GR.8 - 5/8-11 X 8 1/2 | 89-BLT-06311X850 | 8   |       |
| 6    | NUT LOCK GR.8 - 1/2-13     | 89-NUT-LOC050-13 | 4   |       |
| 7    | NUT LOCK GR.8 - 5/8-11     | 89-NUT-LOC063-11 | 8   |       |
| 8    | WASHER SAE GR.8 - 1/2      | 89-WSR-SAE050    | 8   |       |

**High Crop Assembly - 1 of 3** ◆



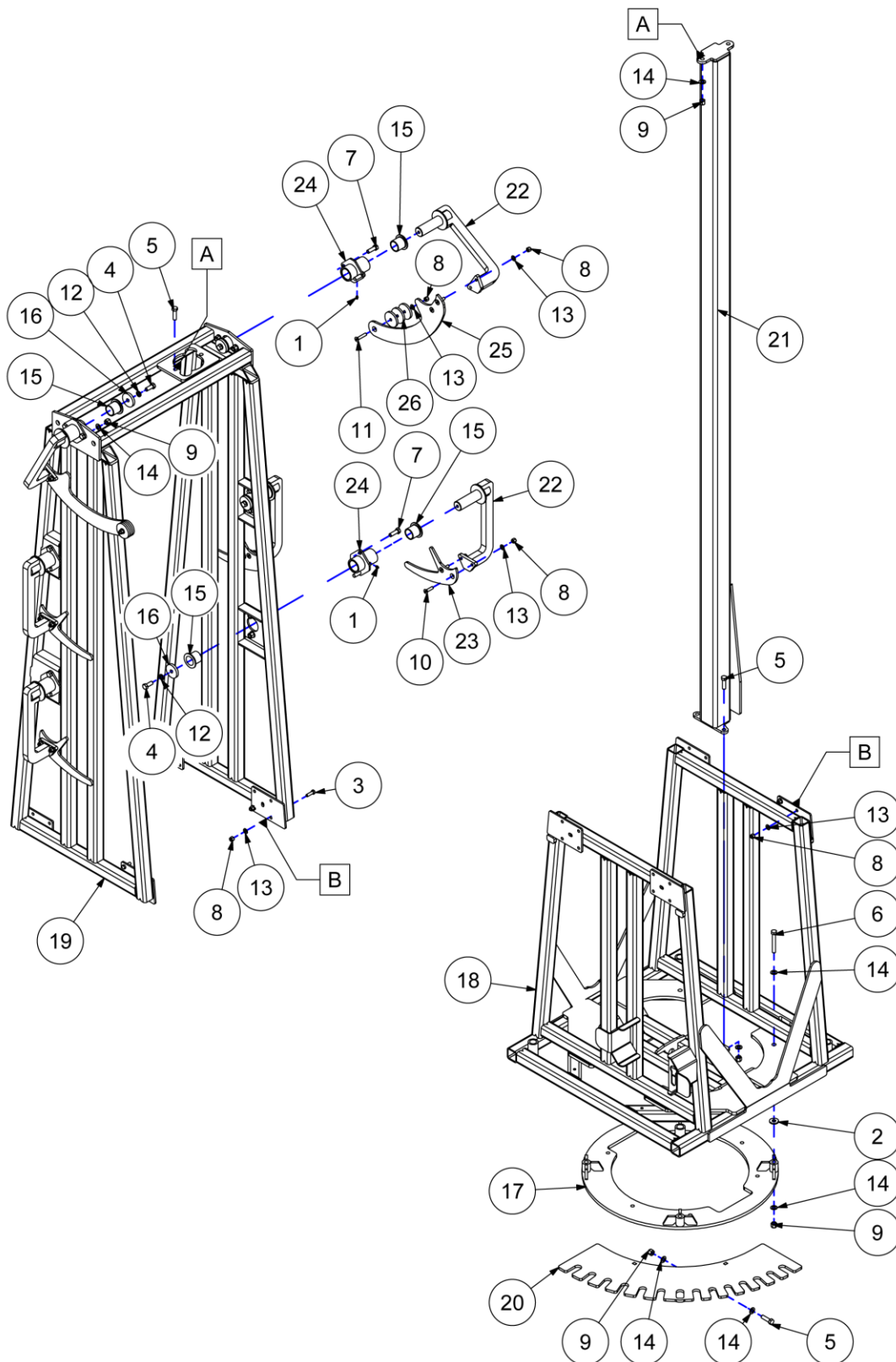




**High Crop Assembly 1 of 3** ◆

| ITEM | DESCRIPTION                     | PART NUMBER        | QTY | NOTES |
|------|---------------------------------|--------------------|-----|-------|
| ◆    | <b>HIGH CROP ASSEMBLY</b>       | <b>CB-KIT-HC64</b> |     | ◆     |
| 1    | CLAMP - M8 80-85 (3.15-3.38 IN) | 50-065             | 8   |       |
| 2    | BOLT - 3/8-16 X 1.00            | 90-BLT-03816X100   | 5   |       |
| 3    | BOLT - 3/8-16 X 1 1/4           | 90-BLT-03816X125   | 9   |       |
| 4    | BOLT - 1/2-13 X 4 1/4           | 90-BLT-05013X425   | 2   |       |
| 5    | NUT HEX - 3/8-16                | 90-NUT-HEX038-16   | 12  |       |
| 6    | NUT LOCK - 3/8-16               | 90-NUT-LOC038-16   | 2   |       |
| 7    | NUT LOCK - 1/2-13               | 90-NUT-LOC050-13   | 2   |       |
| 8    | WASHER LOCK - 3/8               | 90-WSR-LOC038      | 12  |       |
| 9    | WASHER SAE - 1/2                | 90-WSR-SAE050      | 2   |       |
| 10   | PLATE MANIFOLD SECTION MOUNT    | CB-960-082-A       | 1   |       |
| 11   | WELDMENT SWAY LOCK HANDLE       | CB-960-110         | 1   |       |
| 12   | WELDMENT BRACKET SWAY HC64      | CB-960-111         | 1   |       |
| 13   | WELDMENT SWAY LOCK BRACE        | CB-960-119-A       | 2   |       |
| 14   | PLATE HIGH CROP SWAY BAR LOCK   | CB-960-120         | 1   |       |
| 15   | HC64 BOOM - SECTION 1 ASY       | CB-965-000         | 1   |       |
| 16   | HOSE - 3.00 CADMAN SUPPLY       | IR-HOZ-300CSSL.FT  | 8   |       |

**High Crop Assembly - 2 of 3** ◆

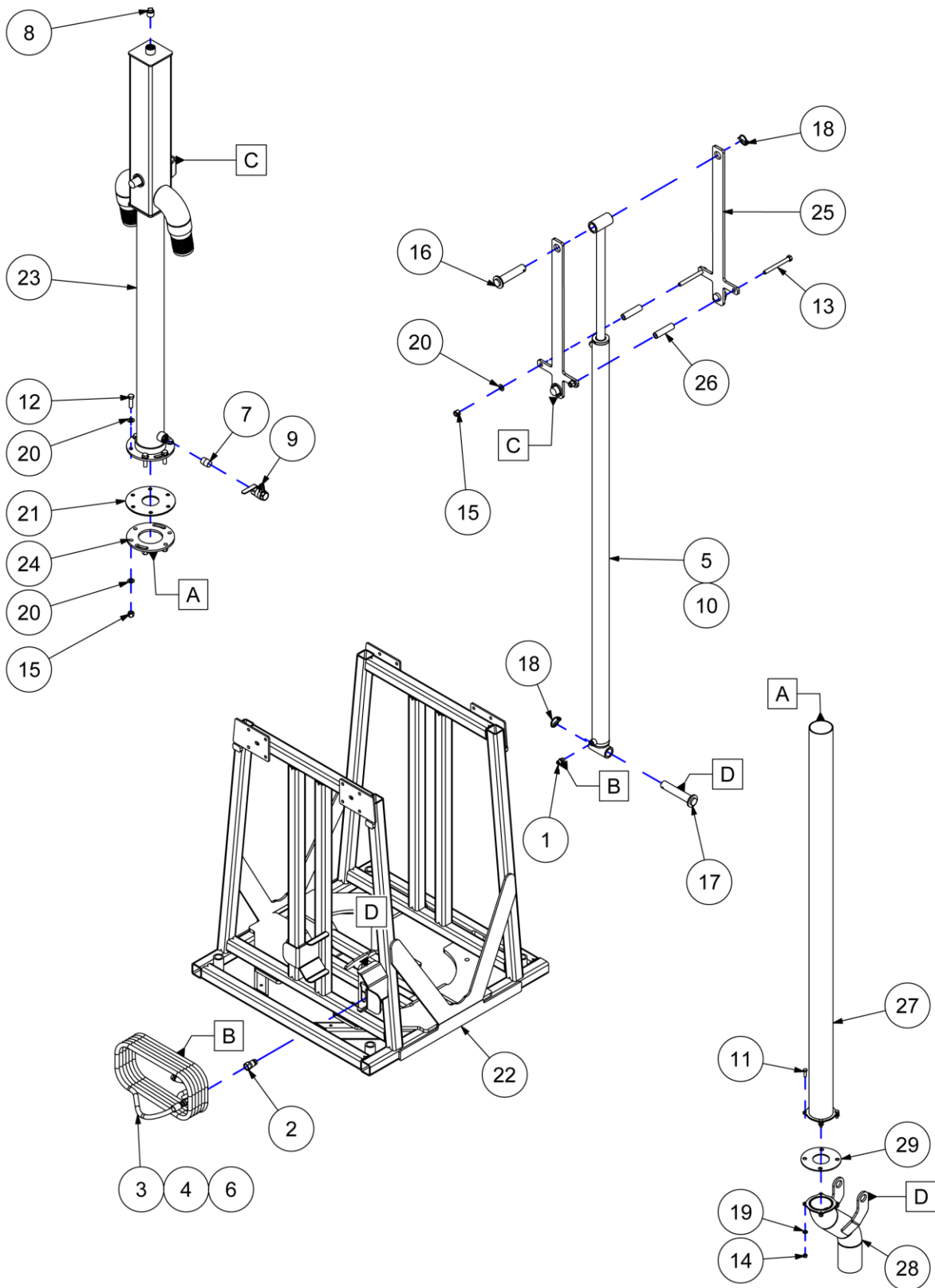




**High Crop Assembly 2 of 3** ◆

| ITEM | DESCRIPTION                     | PART NUMBER        | QTY | NOTES |
|------|---------------------------------|--------------------|-----|-------|
| ◆    | <b>HIGH CROP ASSEMBLY</b>       | <b>CB-KIT-HC64</b> |     | ◆     |
| 1    | GREASE FITTING - 1/4-28         | 40-001-02528       | 6   |       |
| 2    | SHIM - 1 3/8 OD X 9/16 ID X 10G | 45-902-10G         | 4   |       |
| 3    | BOLT - 3/8-16 X 1 1/4           | 90-BLT-03816X125   | 16  |       |
| 4    | BOLT - 1/2-13 X 1 1/4           | 90-BLT-05013X125   | 6   |       |
| 5    | BOLT - 1/2-13 X 1 3/4           | 90-BLT-05013X175   | 8   |       |
| 6    | BOLT - 1/2-13 X 3 1/2           | 90-BLT-05013X350   | 4   |       |
| 7    | BOLT - 1/2-20 X 1 1/2           | 90-BLT-05020X150   | 12  |       |
| 8    | NUT LOCK - 3/8-16               | 90-NUT-LOC038-16   | 30  |       |
| 9    | NUT LOCK - 1/2-13               | 90-NUT-LOC050-13   | 24  |       |
| 10   | SCREW FLATHEAD - 3/8-16 X 1 1/2 | 90-SCR-FH03816X150 | 12  |       |
| 11   | SCREW FLATHEAD - 3/8-16 X 2.00  | 90-SCR-FH03816X200 | 2   |       |
| 12   | WASHER LOCK - 1/2               | 90-WSR-LOC050      | 6   |       |
| 13   | WASHER SAE - 3/8                | 90-WSR-SAE038      | 30  |       |
| 14   | WASHER SAE - 1/2                | 90-WSR-SAE050      | 32  |       |
| 15   | UHMW FLANGED BUSH SHAFT 1.50    | CB-017-A           | 12  |       |
| 16   | STEERING LASER CUT WASHER       | CB-665-039         | 6   |       |
| 17   | WELDMENT HC RING ADAPTER        | CB-665-186         | 1   |       |
| 18   | WELDMENT BOTTOM BASE HC64       | CB-960-002         | 1   |       |
| 19   | WELDMENT TOP TOWER HC64         | CB-960-003         | 1   |       |
| 20   | TURNTABLE LOCK WELDMENT HC      | CB-960-007         | 1   |       |
| 21   | VERTICAL SUPPORT TUBE           | CB-960-069         | 1   |       |
| 22   | WELDMENT SWING ARM LATCH        | CB-960-077         | 6   |       |
| 23   | PLATE SWING ARM HOLDER          | CB-960-081         | 4   |       |
| 24   | WELDMENT TUBE SWING ARM         | CB-960-084-B       | 6   |       |
| 25   | SWING ARM HOLDER LARGE TOP      | CB-960-086-C       | 2   |       |
| 26   | PLATE SWING BALANCE             | CB-960-087         | 6   |       |

**High Crop Assembly - 3 of 3** ◆





**High Crop Assembly 3 of 3** ◆

| ITEM | DESCRIPTION                      | PART NUMBER              | QTY | NOTES |
|------|----------------------------------|--------------------------|-----|-------|
| ◆    | <b>HIGH CROP ASSEMBLY</b>        | <b>CB-KIT-HC64</b>       |     | ◆     |
| 1    | ADAPTER - 06 JICM X 06 SAEM      | 25-WHD-5315X6            | 1   |       |
| 2    | HYDRAULIC COUPLER TIP            | 40-563                   | 1   |       |
| 3    | 4 HOSE CRIMP X 3/8 JIC-F SW 90 D | 40-HYD-04HOSX038JICFSW90 | 1   |       |
| 4    | HOSE END - 6 X 1/2 NPT MALE      | 40-HYD-06HOSX050NPTM     | 1   |       |
| 5    | CYLINDER - 2" X 68" STROKE       | 40-HYD-CYL053            | 1   |       |
| 6    | HYDRAULIC HOSE - 3/8" (06)       | 40-HYD-HOSE038           | 360 |       |
| 7    | NIPPLE CLOSE -3/4 NPT GALV       | 40-NPT-NPLC075G          | 1   |       |
| 8    | PLUG - 3/4 NPT GALV.             | 40-NPT-PLG075G           | 1   |       |
| 9    | BALL VALVE - 3/4 NPTF X NPTF     | 40-NPT-VLV075BLLFF       | 1   |       |
| 10   | BREATHER - 06 SAEM               | 43-544                   | 1   |       |
| 11   | BOLT - 5/16-18 X 1.00            | 90-BLT-03118X100         | 4   |       |
| 12   | BOLT - 1/2-13 X 1 3/4            | 90-BLT-05013X175         | 6   |       |
| 13   | BOLT - 1/2-13 X 5.00             | 90-BLT-05013X500         | 2   |       |
| 14   | NUT LOCK - 5/16-18               | 90-NUT-LOC031-18         | 4   |       |
| 15   | NUT LOCK - 1/2-13                | 90-NUT-LOC050-13         | 8   |       |
| 16   | PIN - 1.125DIA X 5.38 USEABLE    | 90-PIN-CL113X450         | 1   |       |
| 17   | PIN - 1.125DIA X 5.38 USEABLE    | 90-PIN-CL113X538         | 1   |       |
| 18   | LYNCH PIN - 3/16                 | 90-PIN-LYNCH019          | 2   |       |
| 19   | WASHER SAE - 5/16                | 90-WSR-SAE031            | 4   |       |
| 20   | WASHER SAE - 1/2                 | 90-WSR-SAE050            | 14  |       |
| 21   | GASKET 64M BOOM URETHANE         | CB-019                   | 1   |       |
| 22   | WELDMENT BOTTOM BASE HC64        | CB-960-002               | 1   |       |
| 23   | WELDMENT PLUMBING MANIFOLD       | CB-960-060-B             | 1   |       |
| 24   | PLATE FLANGE 6BOLT 3.5 GALV      | CB-960-093               | 1   |       |
| 25   | CYLINDER SUPPORT HC64            | CB-960-109               | 2   |       |
| 26   | TUBE CYLINDER BOLT SPACING       | CB-960-130               | 2   |       |
| 27   | WELD SLIDE HC TUBE FLANGE        | CB-960-907               | 1   |       |
| 28   | WELDMENT INTAKE PLUMBING TUBE    | CB-960-908               | 1   |       |
| 29   | GASKET - 2" X 4 BOLT URETHANE    | IR-GKT-FL21              | 1   |       |





## Required Maintenance

To make sure your Irrigation Boom performs as intended it is important to follow the maintenance schedule in this manual.



**Maintenance must be done only when the irrigation boom is shut down and is in a non-loaded condition. This means that all mechanical and hydraulic tension has been released from the irrigation boom. Performing maintenance on the irrigation boom during operation may result in serious injury and/or death to operators**

## Each Use

| MAINTENANCE ITEM               | PROCEDURE   |
|--------------------------------|---|
| Visually inspect equipment     | Walk around the unit and inspect for any items which appear loose, missing, or damaged. This can include O-rings, seals, joints, cams and springs among other items. Replace missing or damaged items and tighten loosened items  |
| Inspect all pins               | Check pins for wear and/or damage. Replace worn and/or damaged pins.  |
| Inspect all lubrication points | Check all grease points. Use grease gun to lubricate grease points as needed. Do not exceed times set in Grease Points Upkeep ( <i>see below</i> ).   |
| Inspect tire pressure          | <p>Check sidewall tire for operating pressure and use tire pressure gauge to see if inflation is correct. Do not lower the tire pressure below the tire's recommended level. Do not overinflate tires.</p> <p> <b>Failure to use recommended tire pressure may result in the tire exploding, or separating from the wheel rim. This may result in serious injury and/or death. This will also damage the irrigation boom.</b></p>    |
| Inspect all wheel nuts         | <p>Check and see if wheel nuts are tight. If they need to be tightened then tighten them with a torque wrench to:</p> <p style="text-align: center;"><b>110 ft•lbs [149 N•m]</b></p> <p>Do not operate the boom if the wheel nuts are loose.</p> <p> <b>Using the boom if the wheel nuts are not correctly torqued may result in wheel separation. This may result in serious injury and/or death, and will damage the boom.</b></p> |


**Table 1 - Each Use**

## Greases and Lubricants

Grease: Any good grade, multi-purpose, waterproof grease is compatible with the lubrication needs of your irrigation boom.

## After Long Term Storage

Complete the following procedure prior to start-up of your irrigation boom after long term storage.

| MAINTENANCE ITEM         | PROCEDURE  |
|--------------------------|--|
| Review operator's manual | Review this manual to verify how to operate the irrigation boom safely. This will reduce the chance of user injury and equipment damage.   |
| Inspect tires            | <p>Verify that tires are in good condition with no cracks, uneven wear, and/or other problems. Check sidewall of tire for operating pressure and use tire pressure gauge to see if inflation is correct.</p> <p>Do not lower the tire pressure below the tire's recommended level. Do not overinflate tires.</p> <p> <b>Failure to use recommended tire pressure may result in the tire exploding, or separating from the wheel rim. This may result in serious injury and/or death. This will also damage the irrigation boom.</b></p> |

**Table 2 - After Long Term Storage**



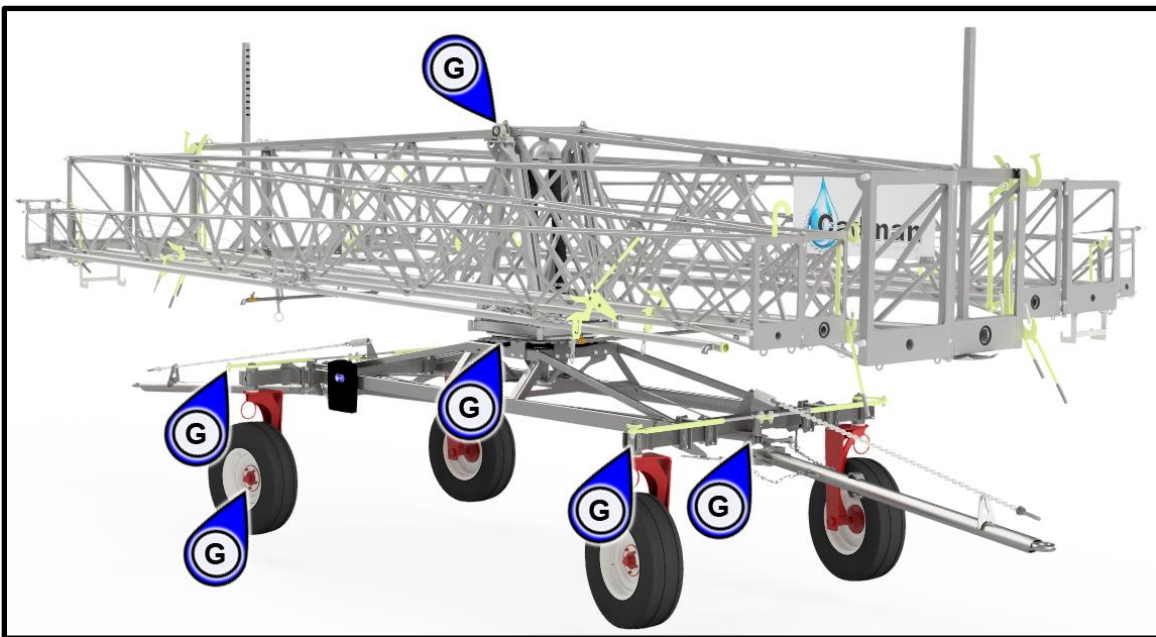
**Failing to review the operator's manual and/or inspecting the unit after long term storage may result in incorrect irrigation boom operation and/or not performing maintenance on items that may require repair. This may result in serious injury and/or death to operators and/or spectators. This may also damage the irrigation boom.**



## Grease Point Locations

| GREASE POINT LOCATION     |  |
|---------------------------|--|
| Turntable                 | 70 hours or one week (whichever comes first) |
| Wheel Bearings            | Repack and Grease annually                   |
| Front Steering Kingpin    | 70 hours or one week (whichever comes first) |
| Other Steering Components | 70 hours or one week (whichever comes first) |
| Offset Feed Components    | 70 hours or one week (whichever comes first) |

**Table 3 - Grease Point**

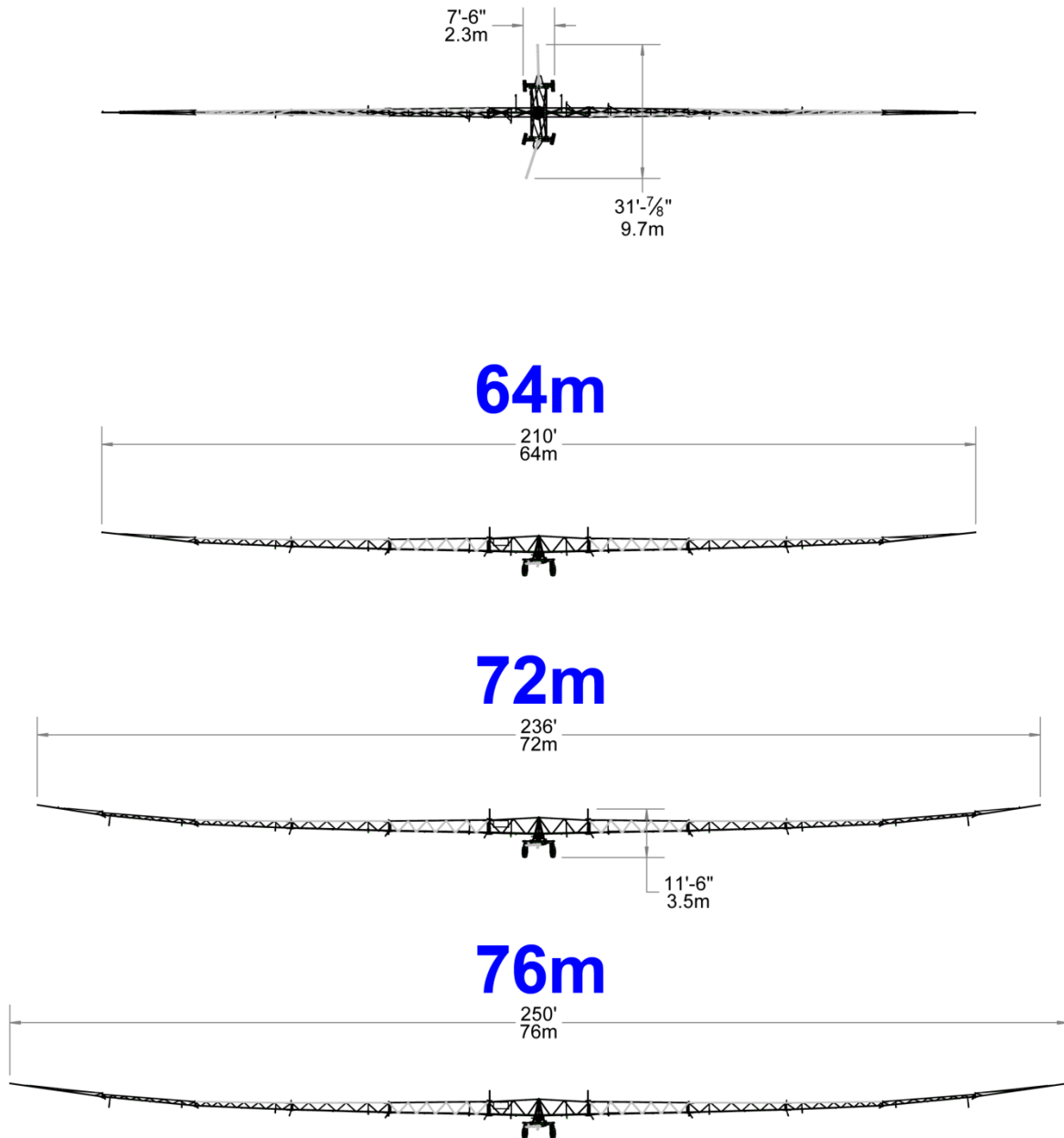


*Figure 21 - Grease Point*

*img-01472*

## Irrigation Boom Dimensions and Weight

The dimensions and weights shown on the following page are only approximate.



*Figure 22 - Overall Dimensions Irrigation Booms*

*img-01473*

The weight for an empty Cadman 64m Irrigation Boom is 4,750 lbs (2155 kg)

The weight for an empty Cadman 72m Irrigation Boom is 4,915 lbs (2230 kg)

The weight for an empty Cadman 76m Irrigation Boom is 4,990 lbs (2265 kg)



## Useful Information

### LENGTH

|               |          |        |                |          |        |
|---------------|----------|--------|----------------|----------|--------|
| <b>1 FOOT</b> | = 12     | Inches | <b>1 METER</b> | = 39.37  | Inches |
|               | = 0.3048 | Meter  |                | = 3.2808 | Feet   |
| <b>1 ROD</b>  | = 198    | Inches | <b>1 MILE</b>  | = 5280   | Feet   |
|               | = 16.5   | Feet   |                | = 1760   | Yards  |
|               | = 5.5    | Yards  |                | = 320    | Rods   |
|               | = 5.029  | Meters |                | = 1609   | Meters |

### AREA

|                       |           |               |
|-----------------------|-----------|---------------|
| <b>1 SQUARE FOOT</b>  | = 144     | Square Inches |
|                       | = 0.0929  | Square Meters |
| <b>1 SQUARE YARD</b>  | = 1296    | Square Inches |
|                       | = 0.8361  | Square Meters |
| <b>1 SQUARE METER</b> | = 1550    | Square Inches |
|                       | = 10.764  | Square Feet   |
| <b>1 ACRE</b>         | = 43560   | Square Feet   |
|                       | = 4047    | Square Meters |
|                       | = 0.4047  | Hectare       |
| <b>1 HECTARE</b>      | = 107639  | Square Feet   |
|                       | = 10000   | Square Meters |
|                       | = 2.47105 | Acres         |
| <b>1 SQUARE MILE</b>  | = 640     | Acres         |
|                       | = 259     | Hectares      |

### VOLUME

|                                    |  |                        |
|------------------------------------|--|------------------------|
| <b>1 GALLON ( US )</b>             | = 0.8327   | Imperial Gallons       |
|                                    | = 231  | Cubic Inches           |
|                                    | = 0.1337   | Cubic Feet             |
|                                    | = 8.345  | Pounds                 |
| <b>1 CUBIC FOOT</b>                | = 1728   | Cubic Inches           |
|                                    | = 7.48   | Gallons ( US )         |
|                                    | = 62.4   | Pounds                 |
|                                    | = 28.32  | Liters                 |
| <b>1 ACRE INCH</b>                 | = 27154  | Gallons ( US )         |
|                                    | = 254  | Cubic Meters / Hectare |
| <b>AREA OF A CIRCLE</b>            | = Diameter x Diameter x 0.7854                         |                        |
| <b>CYLINDER VOLUME ( US GAL. )</b> | = Diameter (ft) x Diameter (ft) x Length (ft) x 5.8752 |                        |