
Part # 99905053

Refuse Container-Loader Installation Manual (G2)

Generation 2 Installation

Rev 20210119



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Printed on 19 January, 2021

Oshkosh Corporation Classification - Restricted

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Revisions

DATE	LOCATION	DESCRIPTION

CHAPTER 1

Chassis Assessment

Before beginning an IMT Refuse Container with Loader installation, assess the chassis for the following:

- 1 Roll-off hoist must have inside rail / outside rail design OR outside rail design.
- 2 Hoist must be a recent model year. (2007 or newer to be verified.)
- 3 The hoist must meet the dimensional requirements shown in **Hoist Dimensions** (on page 4).
- 4 Use the supplied Bracket Template drawing to locate the hole pattern for the bracket. See **Bracket Template** (on page 32) for reference information. Use the full-size bracket template.
- 5 The hydraulic requirements include:
 - a) Hydraulic Flow: Minimum 28 gpm. Most cable hoist systems run at 35 gpm or more.
 - b) Hydraulic Pressure: 2900 psi (Operating system pressure when in crane mode. In hoist mode, the hydraulic pressure is 1850 psi.)
 - c) Pressure line: 1.00"
 - d) Return line: 1.25"
 - e) All fittings JIC

Unapproved Chassis

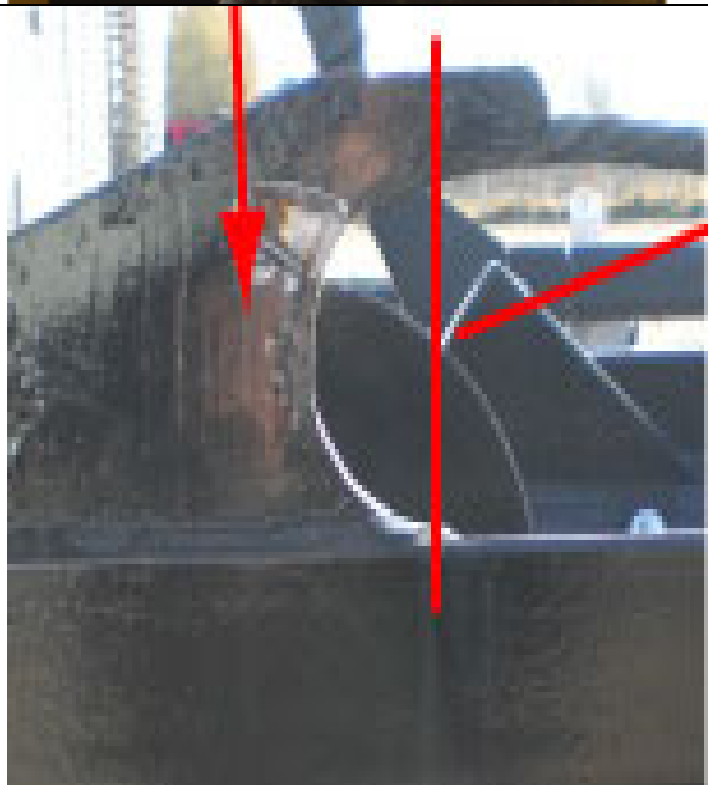
The Refuse Container with Loader product cannot be installed on a compressed natural gas chassis.

If your chassis will require repairs or equipment modification, contact the IMT Inside Sales Administrator for approval before performing repairs or modifications.

Hoist Dimensions



Dimension A: Outside of rails
35-1/2" – 36-1/4"



Dimension B: From centerline of nose
wheel stop to centerline of bracket
38"

Dimension C: From outside of bracket to
outside of opposite bracket
46-15/16"

Dimension D: Roller depth
3-5/8"

Additional requirements:

Hoist rail length should be sufficient for a 22' container.

Hoist must have a nose wheel stop. Flip-up stops will not work.

CHAPTER 2

Parts

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Parts Introduction

With your Refuse Container with Loader, you will receive a large upfit package (93723015) which includes several smaller kits. The upfit package and the smaller kits are marked with part numbers. Use the parts lists for the kits, as well as the photos and drawings, to identify the appropriate installation parts prior to beginning the installation steps.

Upfit Package, Shipout (93723015)

93723015 PARTS LIST		
PART #	DESCRIPTION	QUANTITY
51723032	CONTROL BOX-BAGSTER G2	1
52723016	WELDMENT-BRKT LATCH BODY BAGSTER G2	2
52723017	WELDMENT-BRKT LATCH CHASSISIS BAGSTER G2	2
52723182	GUIDE-BODY BAGSTER G2 RH	1
52723183	GUIDE-BODY BAGSTER G2 LH	1
60135615	EXTENSION-TARPER ARM BAGSTER	4
60135716	PLUNGER-LATCH BAGSTER G2	2
60135720	GUARD-CYLINDER BAGSTER G2	2
60135856	PLATE-BAGSTER HYDRAULIC MOUNT G2	1
60136113	SPACER PLATE-CYLINDER MOUNT BAGSTER G2	2
60136134	GUARD-FENDER BAGSTER	1
60136135	SHIM-BAGSTER CLAMP MOUNT 10GA	2
60136136	SHIM-BAGSTER CLAMP MOUNT .19	2
60136137	SHIM-BAGSTER CLAMP MOUNT .25	2
60136142	BRACKET-HARNESS MOUNTING BAGSTER G2	1
70034509	CLAMP-TUBE 1.00 W/WELD PLATE	5
70034510	CLAMP-TUBE 1.25 W/WELD PLATE	5

93723015 PARTS LIST		
PART #	DESCRIPTION	QUANTITY
70034511	CLAMP-TUBE 1.50 W/WELD PLATE	1
70034512	CLAMP-TUBE 1.75 W/WELD PLATE	1
71414181	TUBE ASSEMBLY-HYD 1.00X216.00 CHASSIS PRESS	1
71414182	TUBE ASSEMBLY-HYD 1.25X220.00 CHASSIS RETURN	1
71414185	TUBE ASSEMBLY-HYD 1.00X 17.00 PRESS EXTEND	A/R
71414186	TUBE ASSEMBLY-HYD 1.25X 17.00 RETURN EXTEND	A/R
71414189	TUBE ASSEMBLY-HYD 1.25 O.D. X 9.38 X 10.38	1
71414190	TUBE ASSEMBLY-HYD 1.25 O.D. X 5.00 X 5.00	1
72060023	CAP SCR .31-18X .75 HH GR5 Z	30
72062109	NUT .31-18 HEX NYLOC ZINC	30
72063002	WASHER-FLAT .31 W ANSI B27.2 Z	60
72066580	CLAMP-LOOP .75 CUSHIONED	15
72066581	CLAMP-LOOP 1.00 CUSHIONED	10
72534647	QUICK DISCONNECT-16 SOCKET-FEMALE	1
72534743	QUICK DISCONNECT-20 SOCKET-FEMALE	1
72661312	CLAMP-LOOP .50 CUSHIONED	5
73540408	VALVE-ASSEMBLY-P.FLOW CNTRL 28 GPM	1
73540411	CYLINDER-AIR BIMBA 2.00B 3.00S DBL ACT	2
73540412	VALVE-SELECTOR 2POS 60GPM 1.00	1
73540413	VALVE-RELIEF 60 GPM 2900PSI	1
77041835	CAP-QUICK DISCONNECT -16 SOCKET	1
77041860	CAP-QUICK DISCONNECT -20 SOCKET	1
77441421	HARNESS-BAGSTER CHASSIS G2	1
90723032	KIT-ELECTRICAL BAGSTER INSTALL G2	1
91723049	KIT-HYD BAGSTER SHIPOUT G2	1
93723050	KIT-HARDWARE BAGSTER CLAMP G2	1
93723177	KIT-HARDWARE BAGSTER TAPER G2	1
93723179	KIT-HARDWARE BAGSTER HYD PLATE G2	1
93723187	KIT-PNEUMATICS BAGSTER G2	1
95722798	DECAL KIT-BAGSTER, SHIPOUT	1
99904914	DRAWING-BAGSTER INSTALL G2	1
99904919	DRAWING-BAGSTER CONTROL WIRING DIAGRAMS G2	1
99904921	DRAWING-HYD. & PNEUMATIC SYSTEM BAGSTER G2	1
99904937	DRAWING-BAGSTER DECAL INSTALLATION G2	1

Additional parts lists for the shaded parts follow.

Hydraulic Kit, Shipout (91723049)

91723049 PARTS LIST		
PART #	DESCRIPTION	QUANTITY
51399010	HOSE-AAJ 1.00 X 23.00 (16-16) 100R12	1
51399011	HOSE-FF 1.00 X 43.00 (16-16) 100R12	1
51399012	HOSE-FF 1.00 X 19.00 (16-16) 100R17	1
51399013	HOSE-FJ 1.00 X 32.50 (16-16) 100R17	1
51399020	HOSE-FJ 1.25 X 24.00 (20-20) 100R4	1
51399021	HOSE-FF 1.25 X 36.00 (20-20) 100R4	1
51399025	HOSE-FJ 1.25 X 18.5 (20-20) 100R4	1
72053517	ADPTR-MPT/HEX/MPT .25 .25	1
72532287	NIPPLE-DISC .25FPT STL HNV-14-M	1
72532370	ADPTR-M STR/M JIC 16 16	4
72534717	ADPTR-M STR/M JIC 16 20	2
72534745	ADPTR-M JIC/M JIC 20 16	1
72534746	ADPTR-M JIC/M JIC 20 20	1
72534747	ELBOW-M STR/90/M JIC 16 20	1
72534748	UNION-M STR/M STR 16 16 SWVL	1
72534749	ADPTR-M STR/M JIC 20 20	2
72534750	ELBOW-M JIC/90/M JIC 16 16	2
72534756	TEE-MALE JIC 1.62-12 1.25 TUBE	1
72534757	TEE-MSTR THD RUN 20	1
72534758	CAP-DUST FOR 72532287	1

Electrical Kit, Shipout (90723032)

90723032 PARTS LIST		
PART #	DESCRIPTION	QUANTITY
60135237	BRACKET-LIGHT 4" RND	2
76392275	GROMMET-RUBBER TAIL LIGHT 4.00	4
77040553	LIGHT-STROBE SMART AMBER 4in LH #2	1
77040554	LIGHT-STROBE SMART AMBER 4in RH #1	1
77040561	LIGHT-STROBE SMART AMBER 4in LH #4	1
77040562	LIGHT-STROBE SMART AMBER 4in RH #3	1
77044557	CONN-PKRD WEATHERPACK 3 CAV FEMALE/TOWER	1
77044622	CONN-PKRD WEATHERPACK 6 CAV FEMALE/TOWER	1
77044659	CABLE SEAL-PKRD WP/MP 10-12 GA BLUE	1
77044676	PLUG-PKRD WEATHERPACK/METRIPACK PLUG	1
77044927	CABLE SEAL-PKRD WP/MP 14 GA GREY	7
77045883	TERM-PKRD WEATHERPACK 12GA FEMALE	1
77045888	TERM-PKRD WEATHERPACK 14-16GA FEMALE	7
99904919	DWG-BAGSTER CONTROL WIRING DIAGRAMS G2	1

Pneumatic Kit, Shipout (93723187)

93723187 PARTS LIST		
PART #	DESCRIPTION	QUANTITY
70396004	TUBE-PUSHLOC .38 AIR (CS)	40
72531569	ADPTR-MPT/HEX/MPT BRS .25 .25	2
72531812	REDUCER BUSH-BRS .50- .25	1
72533700	PUSH LOC- FTG ELBOW .38 DOT X .25 MPT	4
72534739	PUSH LOC- FTG ELBOW .38 DOT X .12 MPT	2
72534740	PUSH LOC- FTG .38 DOT X .12 MPT	1
72534742	PUSH LOC- UNION TEE .38 DOT	4
73054122	VALVE-BALL .25	1
73054505	VALVE-PRESS PROTECTION .25in #378414	1

CHAPTER 3

Installation Steps

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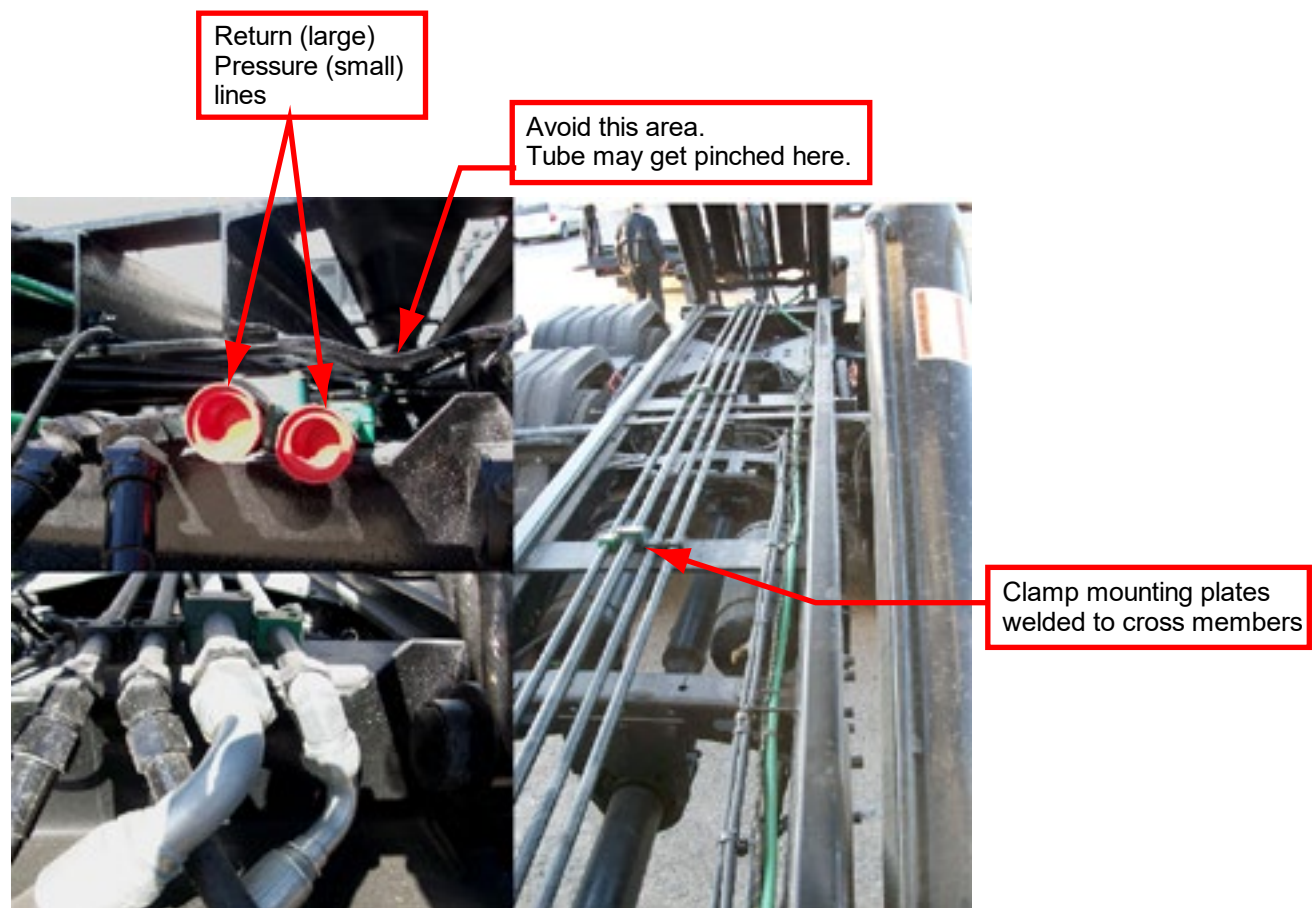
Install Pressure and Return Lines

In the Upfit Kit 93723015, locate:

- 71414181 Long pressure tube assembly (1" x 216") (Qty 1)
- 71414182 Long return tube assembly (1.25" x 220") (Qty 1)
- 70034509 1" (pressure) clamp with weld plate (Qty 5)
- 70034510 1.25" (return) clamps with weld plates (Qty 5)

With the hoist down, locate a place at the rear of the chassis to place the pressure and return lines on the chassis frame. Avoid locating the large tube under the frame in the area marked as it could get pinched.

Raise the hoist, then position the tubing along the chassis. Weld the clamp mounting plates to the cross members as shown. Use four clamps for each line.



Install Chassis Harness

In the Upfit Kit 93723015, locate the following:

- 77441421 Harness - green cable which is 40' long
- 7206023 Cap Screw - 5/16-18 x 3/4" (bag of 30 included with kit)
- 72062109 Nut - 5/16-18 (bag of 30 included with kit)
- 72066580 Clamp - Loop 3/4" cushioned (15 included with kit)
- 72066581 Clamp - Loop 1" cushioned (10 included with kit).

Install green power cable 77441421 through the chassis, then loop at the hoist pivot. Weld on 5/16" x 3/4" bolts every 18". Weld the head of the bolt to the frame, with the threaded part sticking up. The clamp will fit over the bolt and the nut will secure it in place. Using rubber coated clamps and 5/16 nuts, fasten the cable all the way to the front of the hoist.

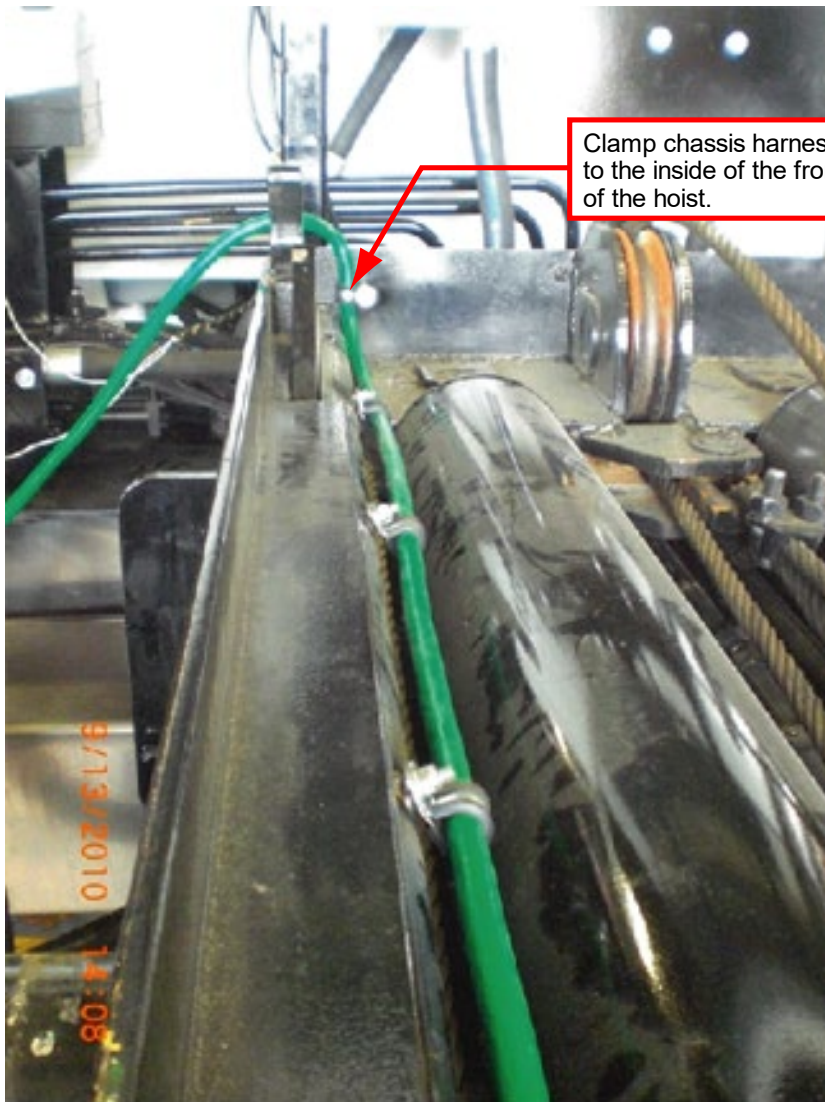


View of electrical cable clamped on lower hoist

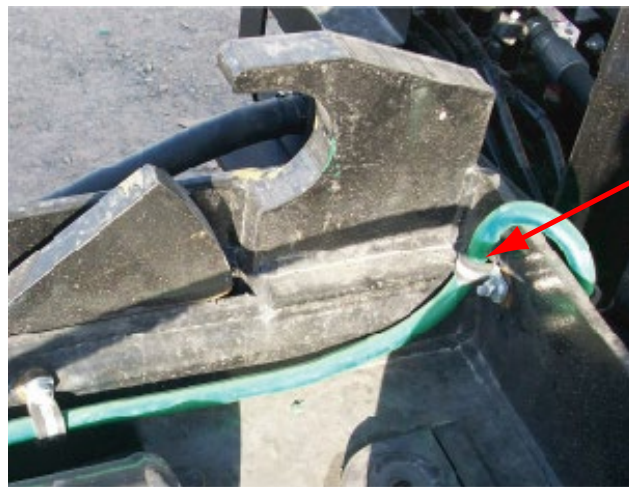


The green electrical cable is routed down the lower hoist, then wraps to the upper hoist. This view is at the back of the hoist where the cable wraps up.

Clamp the wire to the inside of the front of the hoist. The cable may be too long, and may need to be shortened before it is terminated.

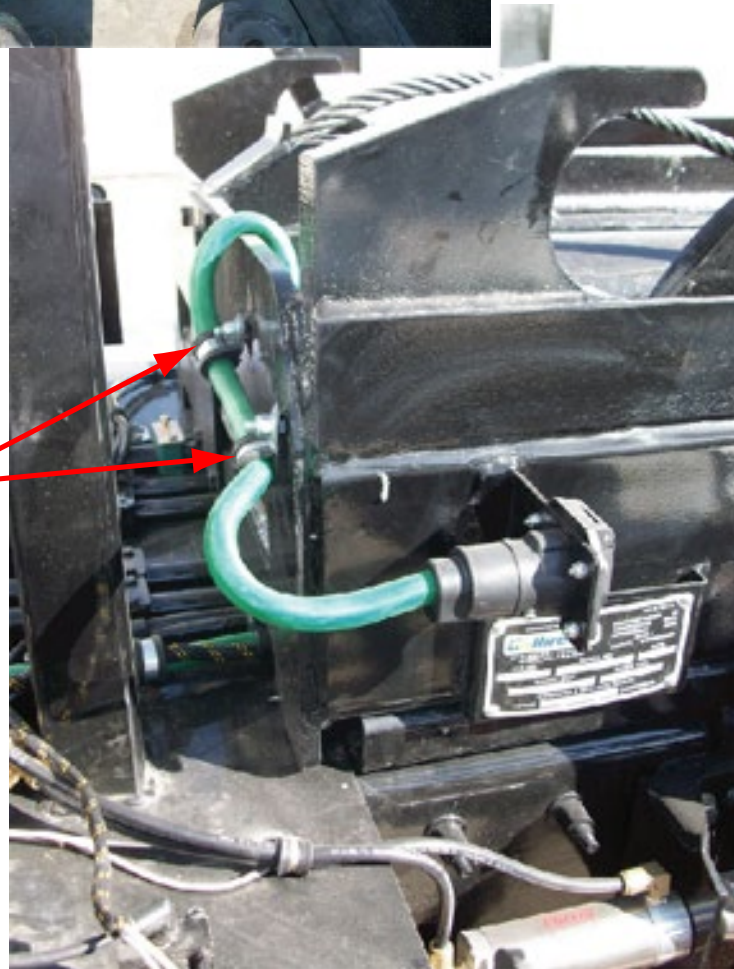


Clamp chassis harness
to the inside of the front
of the hoist.



Cable clamped on inside of front of hoist.

Clamp cable to the outside of the front of the hoist as shown.



Note: This photo shows the green electrical wire connecting to the bracket on the body. This bracket will be installed in the step, Installing **Power Connector Bracket** (on page 32).

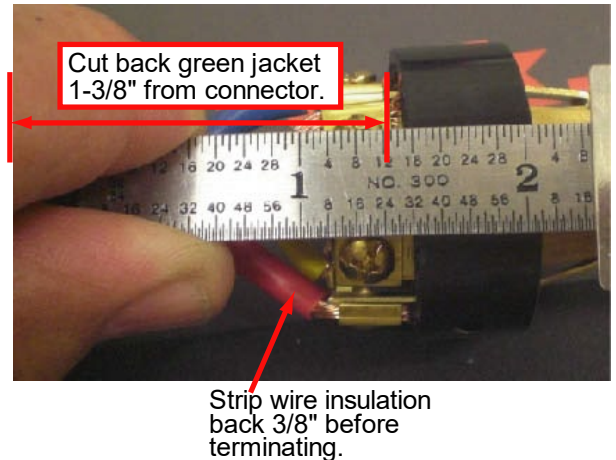
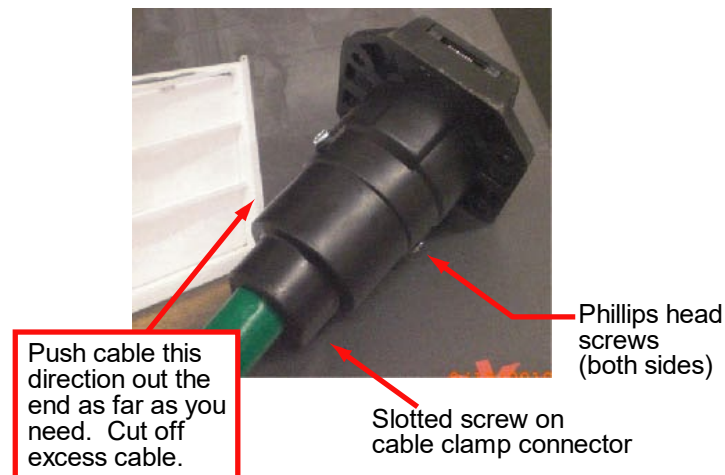
See the **Wiring Diagram (99904919)** (on page 48) for details on the electrical connections for the 77441421 harness.

Re-Terminating Cable

The power connector end of the green cable is designed for the longest hoist models (24' long). If the green electrical cable is too long for your hoist, you may shorten the cable and re-terminate the end.

- 1 Loosen the slotted screw on the cable clamp connector near the inlet end.
- 2 Remove the two Phillips head screws on the sides of the connector cover.
- 3 Push the cable towards the connector cover.
- 4 Cut back the green jacket 1-3/8" from the end of the cable.
- 5 Strip the wire insulation back 3/8".
- 6 Install wires per the chart. Note that the cavity labels *will not* match the wire colors.

CAVITY NUMBER	WIRE COLOR	GAUGE	PRINT LABEL
1 WHITE	RED	10	CRANE POWER
2 BLUE	YELLOW	12	ENGINE STOP
3 GREEN	BROWN	12	CRANE SWITCH
4 BLACK	BLUE	10	CRANE GROUND
5 RED	GREEN	12	SPARE 1
6 BROWN	BLACK	12	SPARE 2
7	WHITE	8	SPARE 3



Strobe Light Installation

In the electrical kit 90723032, locate the following:

- 77040553 - Strobe light LH #2
- 77040554 - Strobe light RH #1
- 77040561 - Strobe light LH #4
- 77040562 - Strobe light LH #3
- 60135237 - 4" light bracket (Qty 2)
- 76392275 - 4" round grommets for lights (Qty 4)

To install the rear strobe lights on the chassis, drill 4.5" diameter holes in the rear light boxes on center with the existing lamps.



Rear view of chassis
without strobe lights installed.



Rear view of chassis with
right rear strobe light installed.

To install the front strobe lights, position above the bumper or in the guard as shown. The front installation is always "best fit" based on the chassis. Use the 60135237 brackets if needed.



Front strobe lights

Connect the green wiring harness to the strobe lights. Use additional parts as needed from the 90723032 electrical kit to wire the harness to the lights. Refer to drawing **99904919** (on page 48).

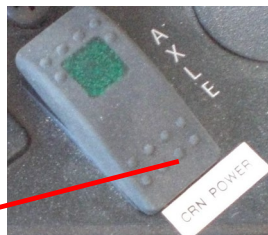
NOTE: The wiring harness is labeled for each location - left rear, right rear, left front, right front. The strobe lights are labeled 1, 2, 3, and 4. Match up the wires and strobe lights as follows:

Wiring Harness Label	Strobe Light Number
Right Rear	1
Left Rear	2
Right Front	3
Left Front	4

The master light, located at the right rear of the vehicle, includes a computer which controls the other three lights.

Install the Crane Mode Switch

Locate the green rocker switch and the switch rocker body, 12V. Install the switch in the cab on the Power Tower as shown. There may be a capped opening which you can use, or you may need to cut a hole in the Power Tower housing. Connect CP601 on the green wiring harness to the Crane Mode switch.



Crane Mode Switch

In the decal kit 95723227, locate the following:

- 70398863 - Height notice decal (Qty 1)
- 70399054 - PTO Mode decal (Qty 1)

Install the Height Notice and PTO Mode decals on the dashboard. Most chassis will be set up to use the cruise control for elevated engine speed for PTO mode. Turn on the cruise control, push the Set control, then push Accelerate to raise the engine speed. The engine speed should go to approximately 1000 rpm. Using a permanent marker, write the PTO set speed on the decal. Do not exceed 1200 rpm.



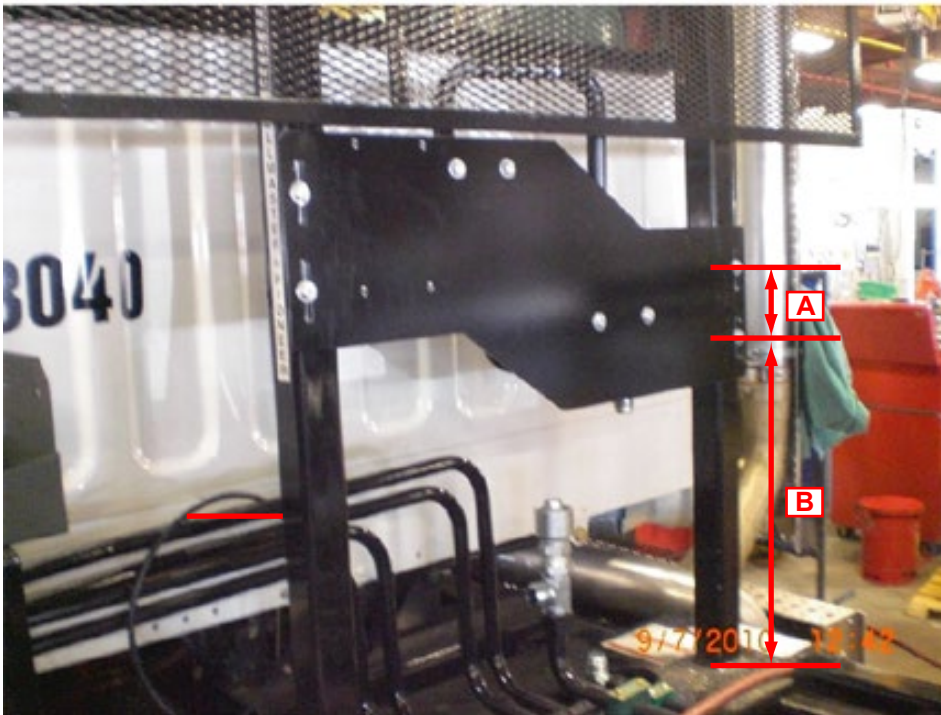
Height Notice,
PTO Mode decals

Install the Hydraulic Valve Panel

In the Upfit Kit 93723015, locate the following:

- 60135856 - Hydraulic valve mounting panel (Qty 1). This panel comes pre-assembled with fittings, valves, and hardware.

Install the hydraulic valve panel on the taper stow legs.



Drill (4) 13/32" diameter holes in the taper stow legs, in the positions shown by Dimensions A and B, and install the preassembled hydraulic valve panel.

Dimension A - The distance between the upper and lower hole, dimension A, is 4.5" for both sides.

Dimension B - The distance from the bottom of the leg, is 22.50" on the right side and 27.5" on the left side.

See **Installation Drawing (99904914)** (on page 43) for details.



This photo shows the hydraulic panel from the front. Note that newer panels have the pneumatic control box mounting formed into the panel on this side.

Hose Installation

Locate the following in Hydraulic Kit 91723049:

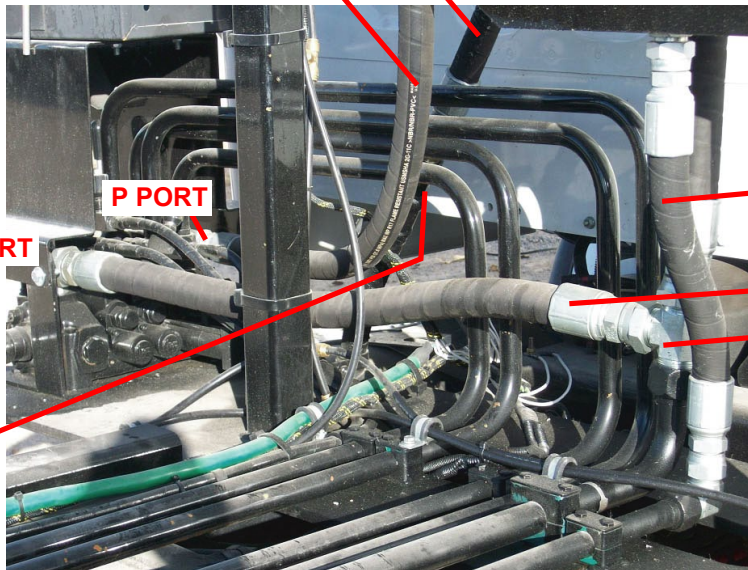
- 51399010 - 1" x 23" Hose
- 51399025 - 1.25" x 18.5" Hose
- 51399012 - 1" x 19" Hose
- 51399011 - 1" x 43" Hose
- 51399021 - 1.25" x 36" Hose
- 72534756 - Tee

Install hoses and fittings as shown.

PRESSURE HOSES ARE 1"

HOSE 1" X 43" (51399015)

HOSE 1" X 23" (51399010)



Pump pressure hose. Remove from hoist valve and add 1" x 43" hose to extend. Connect to inlet port on valve assembly.

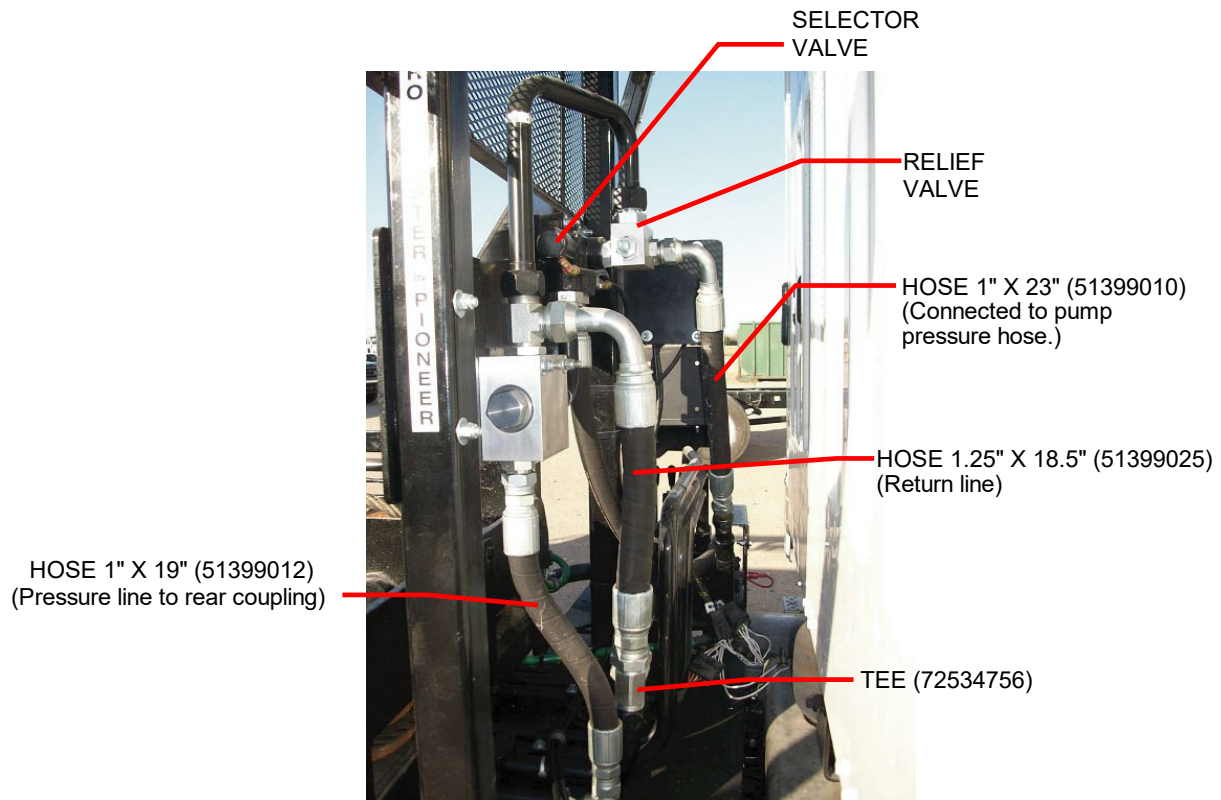
HOSE 1" X 19" (51399012)
(Pressure line to rear coupling)

HOSE 1.25" X 36" (51399021)

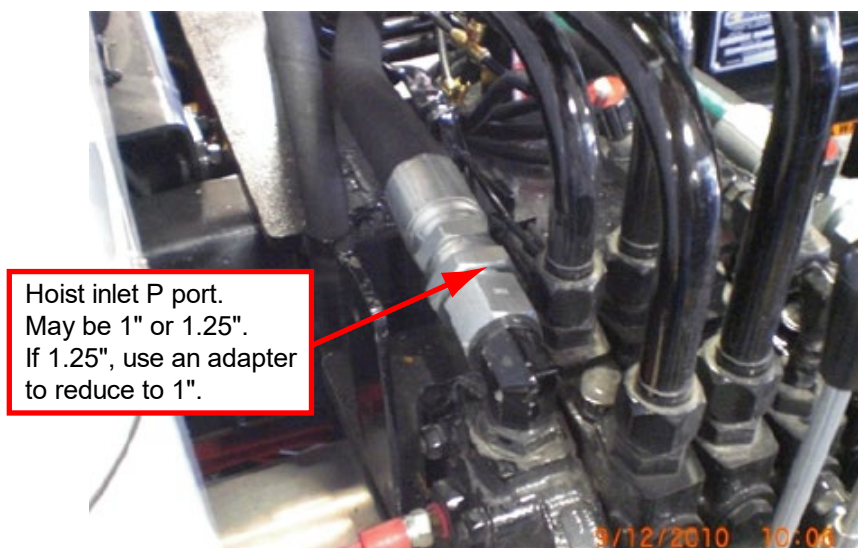
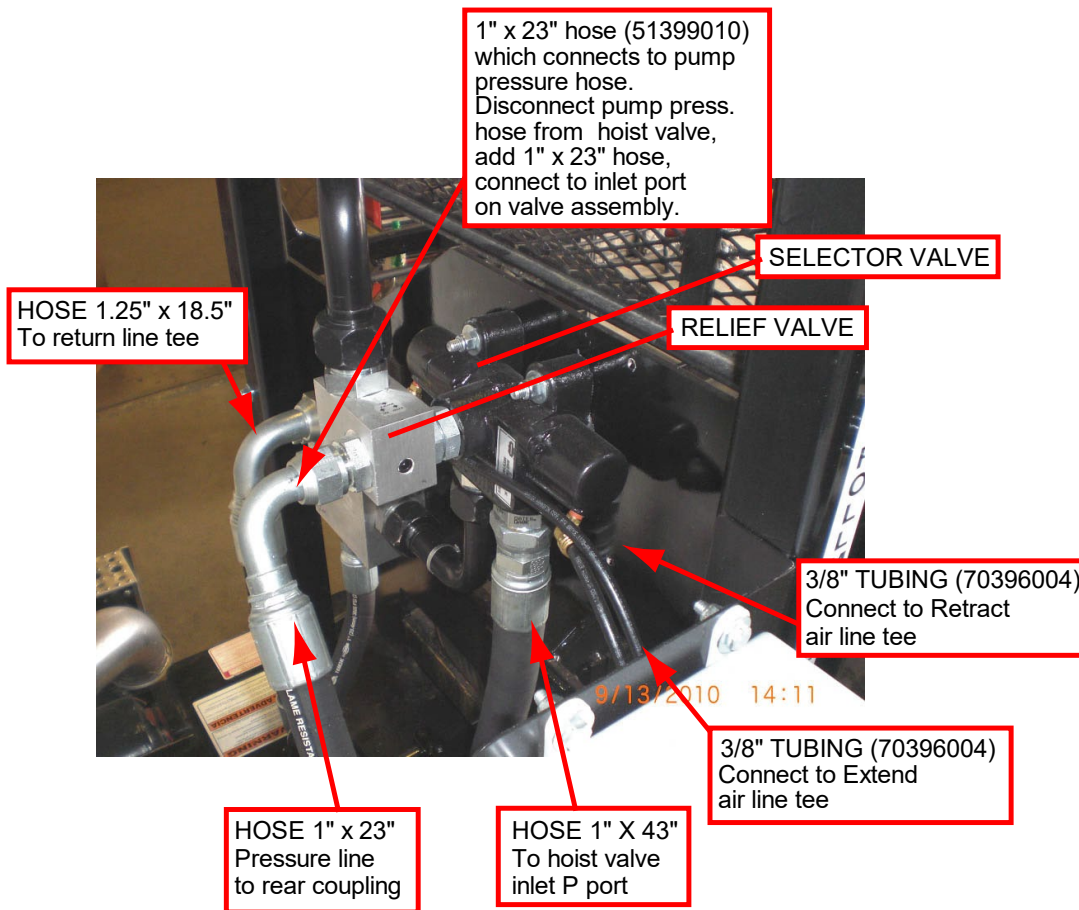
TEE (72534756)

RETURN HOSES ARE 1.25"

Hoses when viewed looking from rear of chassis toward cab.



Side view with passenger side of cab on the right. Same hoses shown in both views.



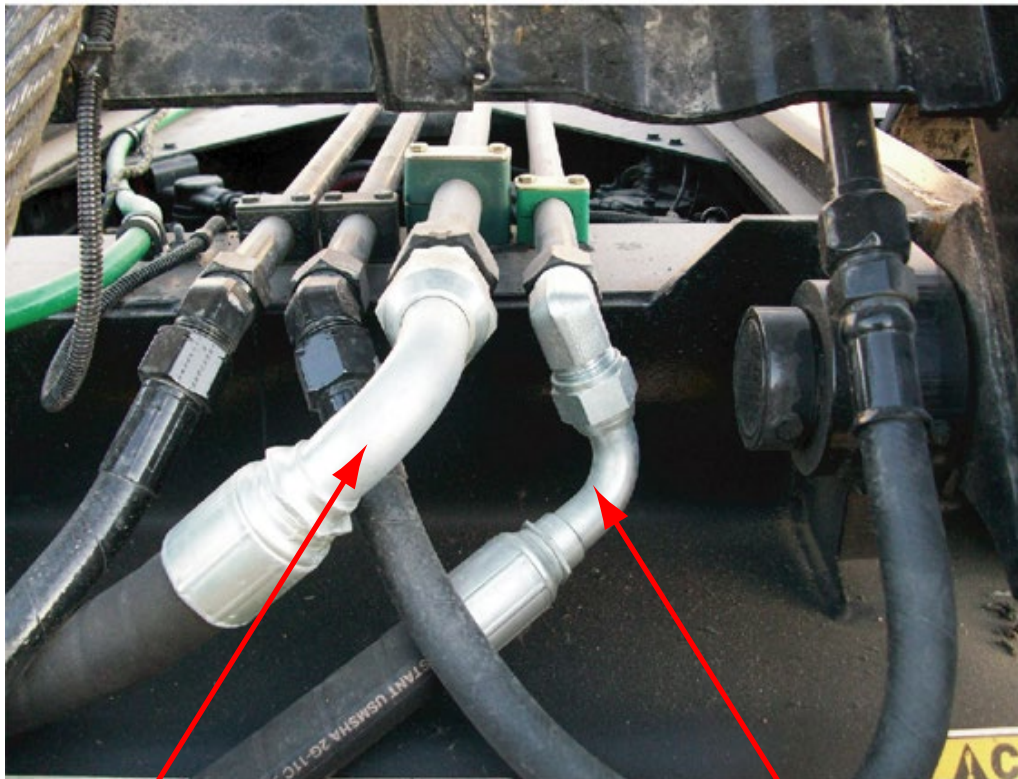
View of hydraulics behind hoist control levers

See the **Hydraulic System (99904921)** (on page 48) for additional details and schematics on the hydraulic installation.

Pressure & Return Hose Connection to Tubing

In the 91723049 Hydraulic Kit, locate the following:

- 51399013 - 1" x 32.5" pressure hose assembly
- 51399020 - 1.25" x 24" return hose assembly



1.25" x 24" return
hose assembly

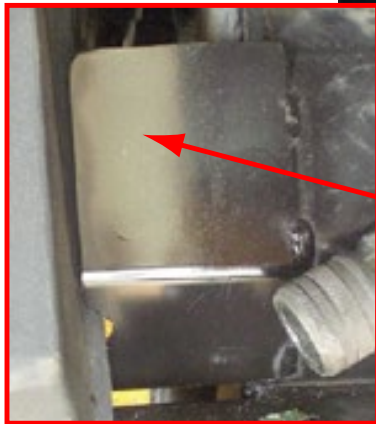
1" x 32.5" pressure
hose assembly

Connect quick coupling hoses to the ends of the pressure and return lines installed earlier. See the **Hydraulic System (99904921)** (on page 48) for additional details and schematics on the hydraulic installation.

Hose Clamps & Mud Guard

In the 93723015 upfit kit, locate:

- 60136134 - mud guard
- 70034511 - 1.5" tube clamp with weld plate (Qty 1)
- 70034512 - 1.75" tube clamp with weld plate (Qty 1)



Weld on mud guard.
Modify as required to
fit chassis.



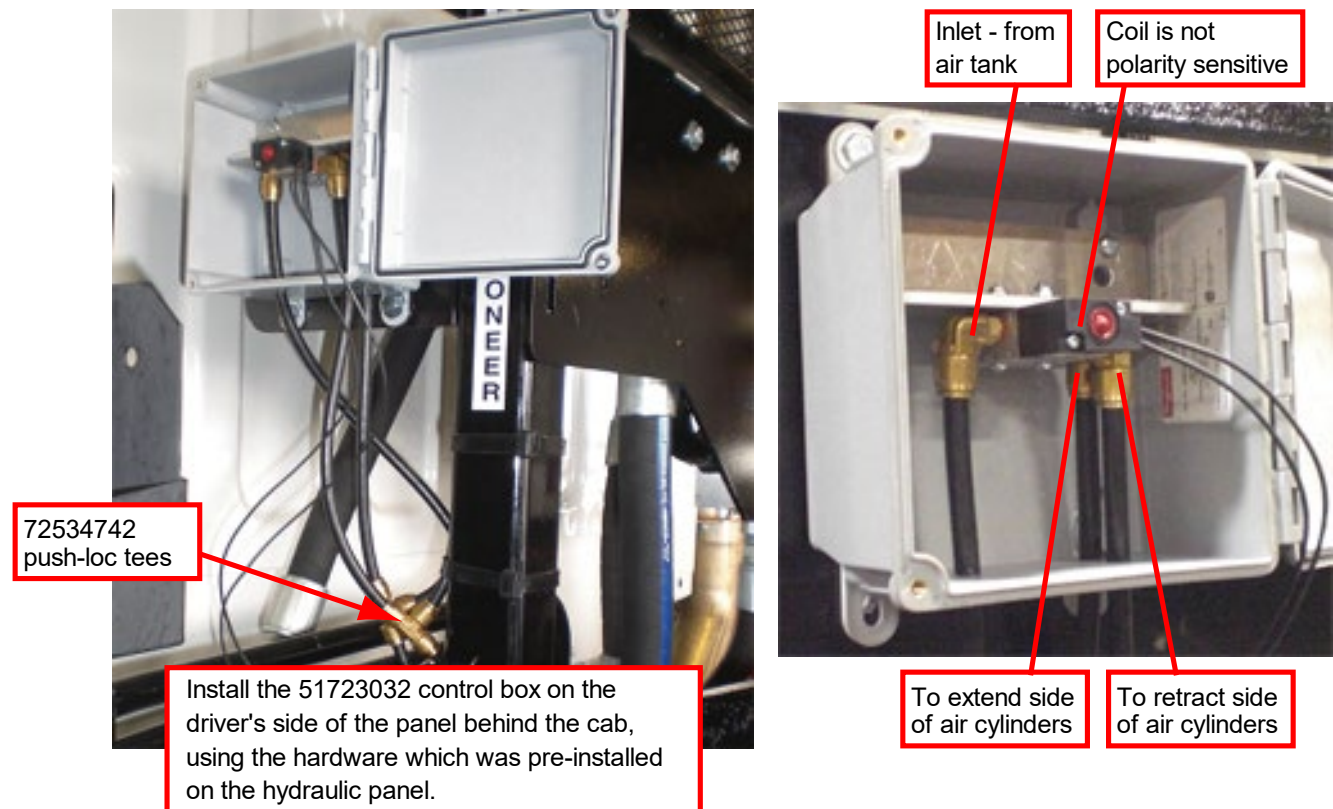
Weld on clamp mounting
plates. Locate as desired.
Install quick couplings and
rubber boots on hoses.

Control Box Installation

In the 93723015 Upfit Kit, locate the 51723032 control box.

In the 93723187 Pneumatic Kit, locate:

- 70396004 - 3/8" air tube
- 72534742 - Push-loc tee

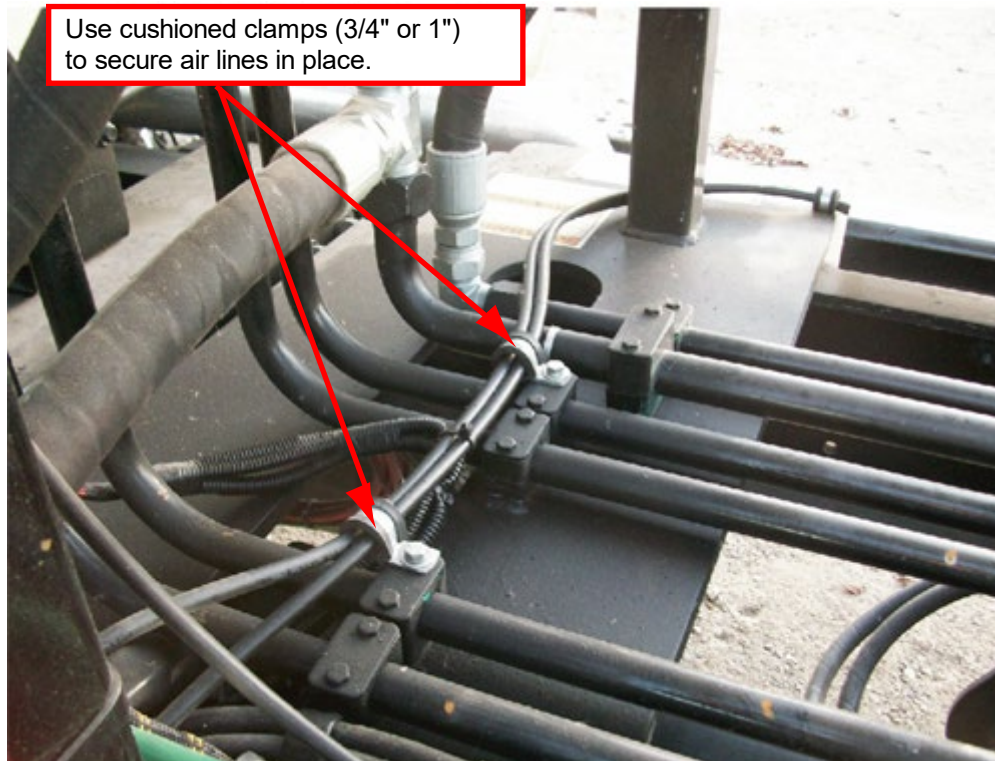


Install the 51723032 control box. Connect the 3/8" air lines from the fittings in the control box to the **air tank** (see "Fittings on Secondary Air Tank" on page 28) and to the extend and retract sides of the air cylinders. For the cylinders, add the 72534742 push-loc tee to the air line just below the control box as shown, then route the air lines to the extend and retract sides of the air cylinders on both sides of the vehicle.

NOTE: All fittings and air lines must be DOT approved.

Air Line Connection

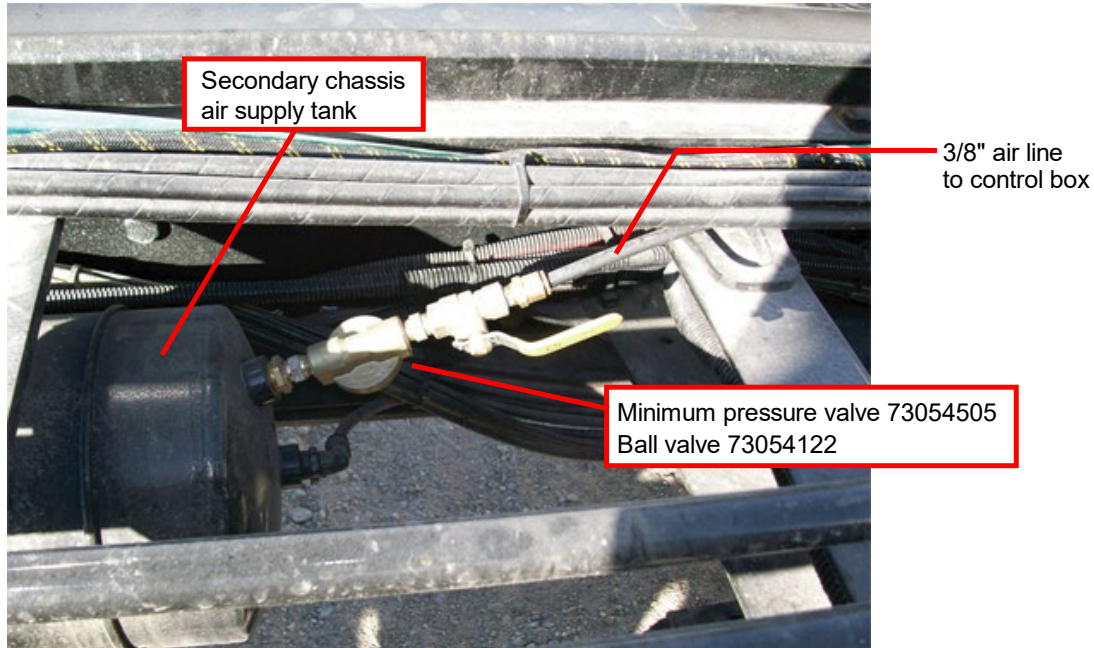
Route the 3/8" air line across the chassis for the passenger side air cylinder. Use cushioned clamps to secure.



See the **Hydraulic System (99904921)** (on page 48) for additional details and schematics on the pneumatic installation.

Fittings on Secondary Air Tank

In the 93723187 Pneumatic Kit, locate the valves and fittings.



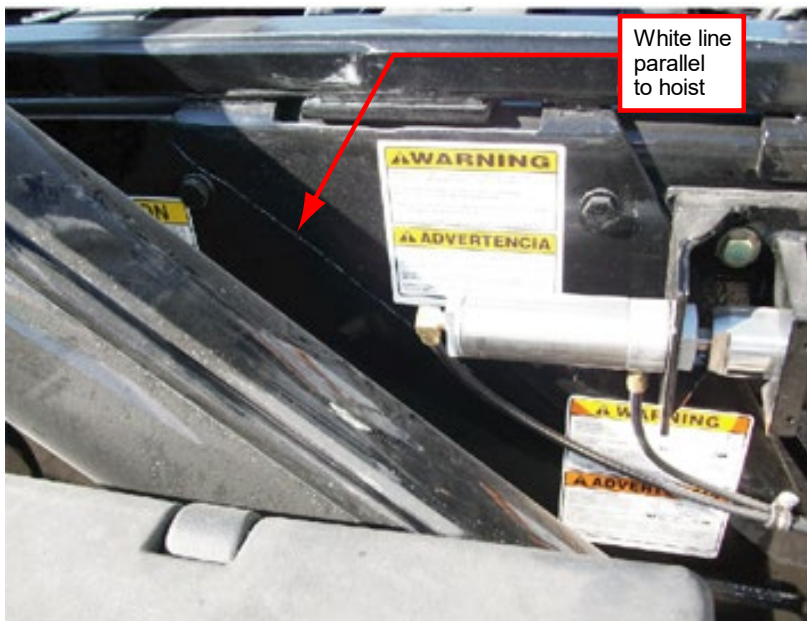
NOTE: Do not install fittings on a bottom port. Locate and use a port near the top of the air tank. All fittings and air lines must be DOT approved.

See the **Hydraulic System (99904921)** (on page 48) for additional details and schematics on the pneumatic installation.

Container Locking Mechanism

Marking Frame for the Lift Cylinders

Raise the hoist to the full extension. Using a white marker, mark the frame side even with the top of the two hoist lift cylinders. This line will be used to locate the locking cylinders. The cylinders and mounting brackets must not extend into the area behind the line.

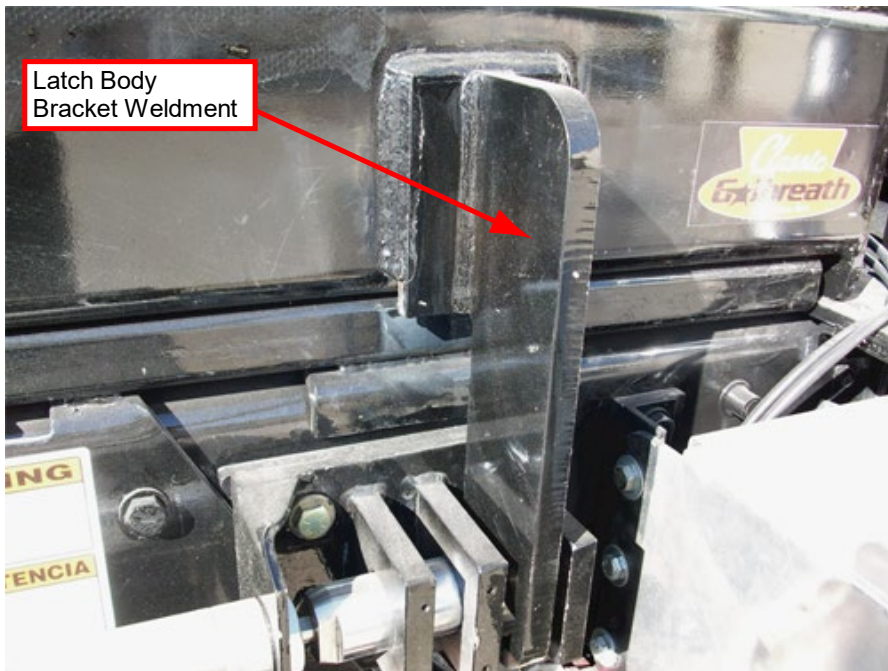


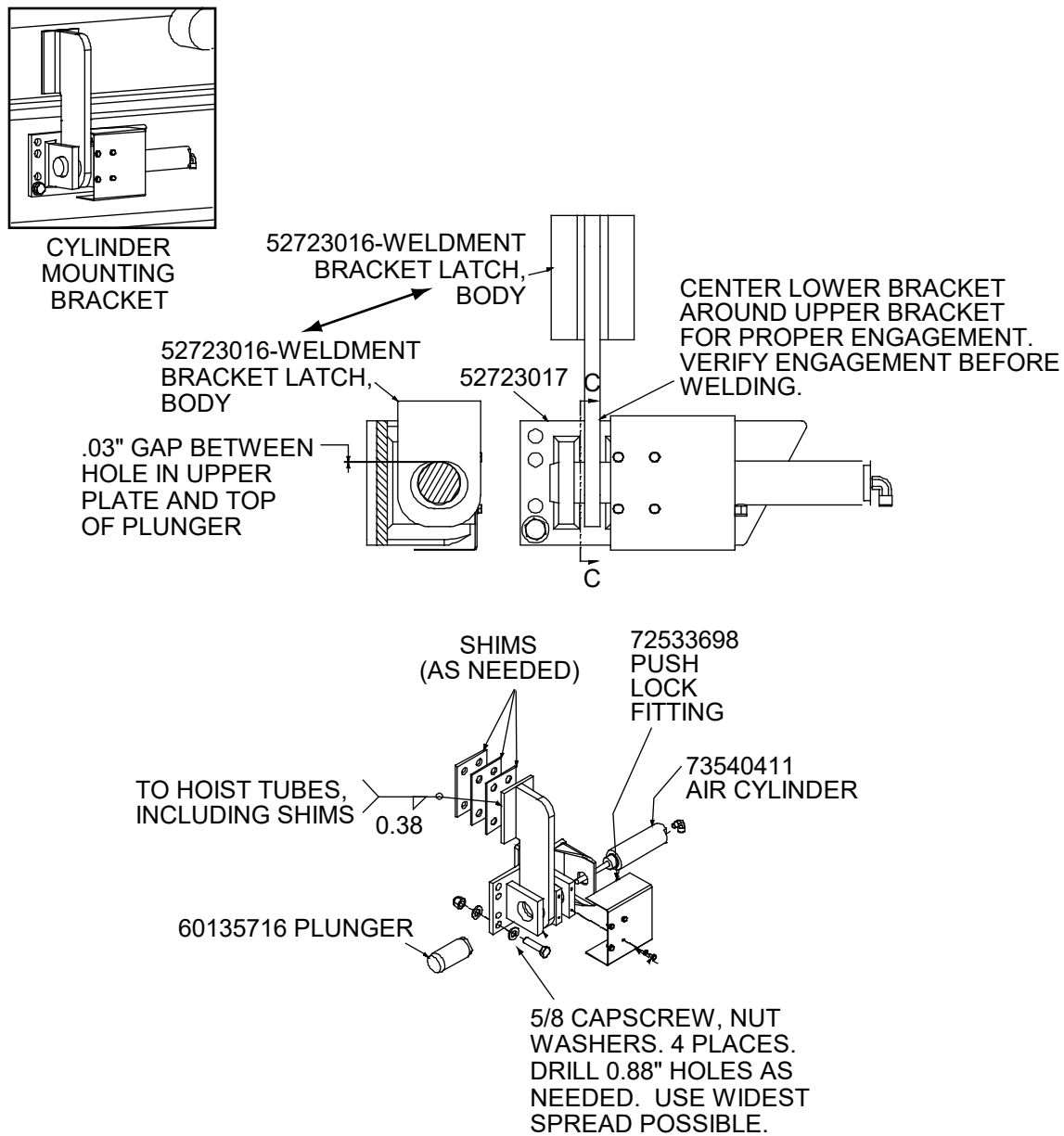
Hoist-Container Brackets

Use the paper Bracket Template (supplied) to position the cylinder mounting brackets. Make sure the cylinder will not extend past the white line which indicates the position of the hoist, so there will be no interference between the hoist and the cylinders. See drawing 99904914 sheet 2 (**Installation Drawing (99904914)** (on page 43)) for complete details.



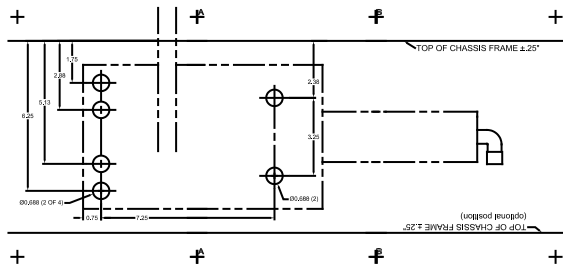
NOTE: The cylinder mounting bracket may be reversed if it fits better in the opposite direction on the chassis.





Install pinch point decals, 70398864, on both sides of cylinder mounting and on the container pocket.

Bracket Template

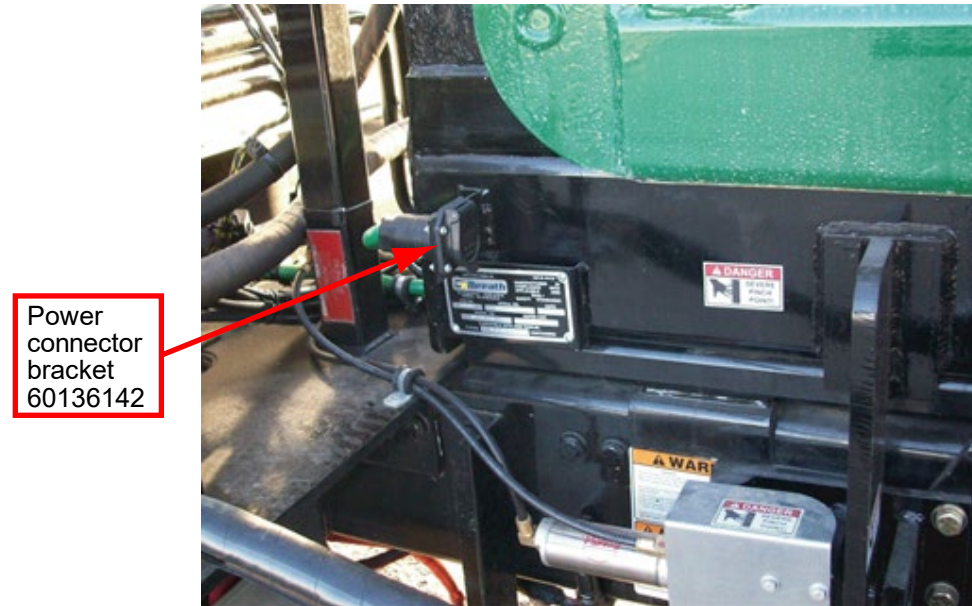


NOTE: This is a scaled example of the bracket template. The actual size is 23.5" wide, and the template must be actual size to be used.

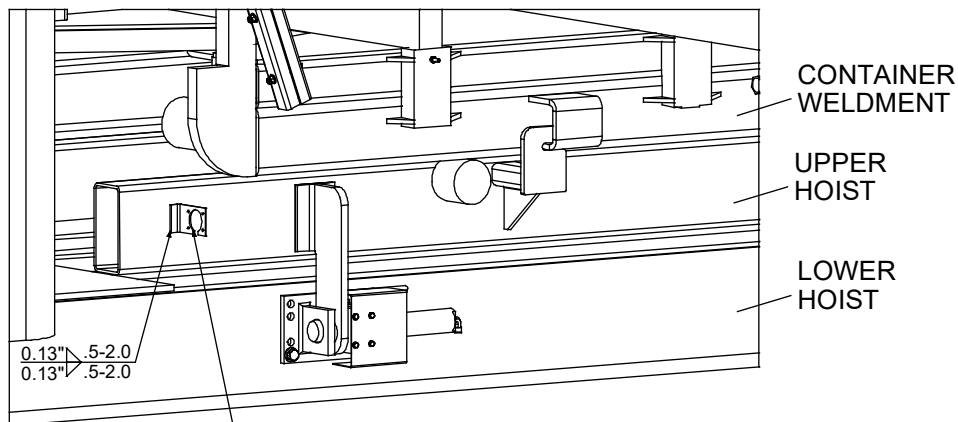
Power Connector Bracket

In the Upfit Kit 93723015, locate:

- 60136142 - Power connector bracket



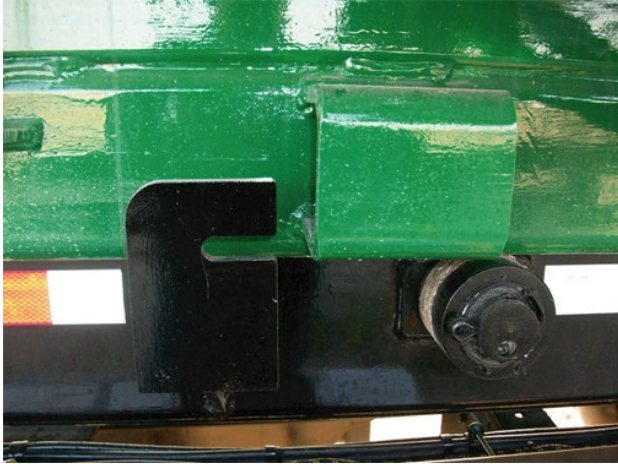
Install the 60136142 bracket at the front of the container. See drawing 99904914 sheet 2 (**Installation Drawing (99904914)** (on page 43)) for complete details.



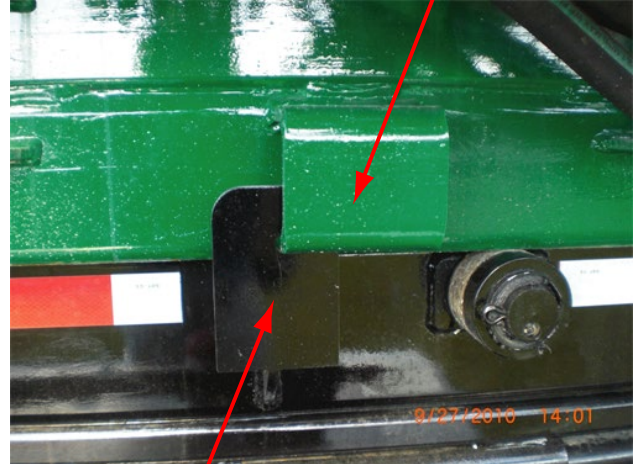
60136142 Bracket
Position at the front of the container.

Once installed, attach the end of the green power cable to this bracket. This is where the crane power cable plugs in to power the crane.

Body-Container Bracket

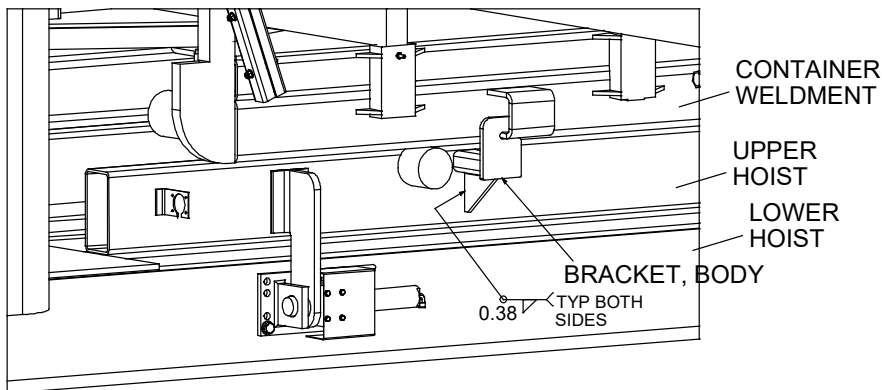


Bracket and pocket shown in the open position.

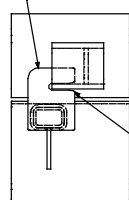


Bracket to lock the upper hoist to the container.
Right side - 52723182; Left side - 52723183

Locate and weld on the body bracket which fits into the pocket on the container, using the container for a placement guide. Position the bracket so the slot is centered around the lower edge of the bracket on the container. See drawing 99904914 sheet 2 (**Installation Drawing (99904914)** (on page 43)) for complete details.



52723183 BRACKET, BODY

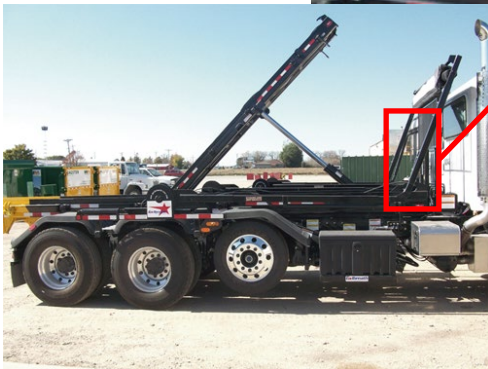


POSITION CONTAINER RESTRAINT
BRACKET ON HOIST TO BE CENTERED
AROUND POCKET ON CONTAINER.

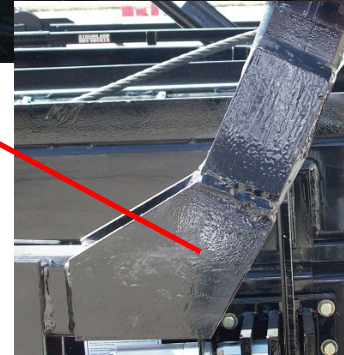
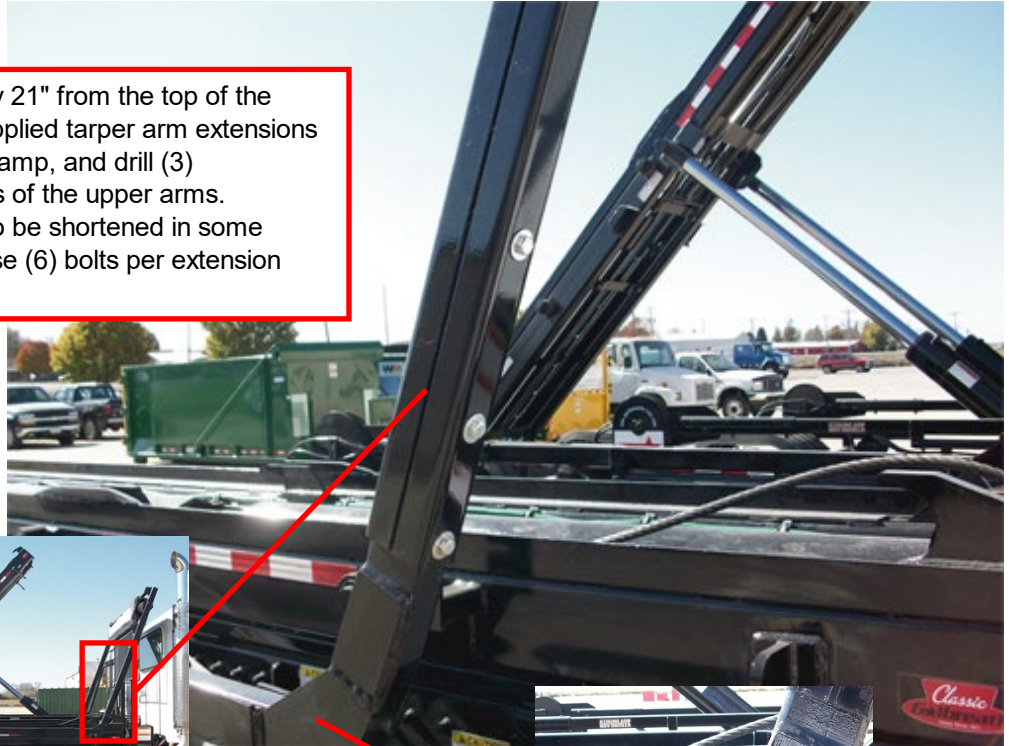
Install pinch point decals, 70398864, on both sides of cylinder mounting and on the container pocket.

Tarper Arm Modification

Cut arms approximately 21" from the top of the lower arm. Use the supplied tarper arm extensions (60135615). Locate, clamp, and drill (3) holes through both ends of the upper arms. Extensions may need to be shortened in some applications. Always use (6) bolts per extension assembly.



Tarper arm modification



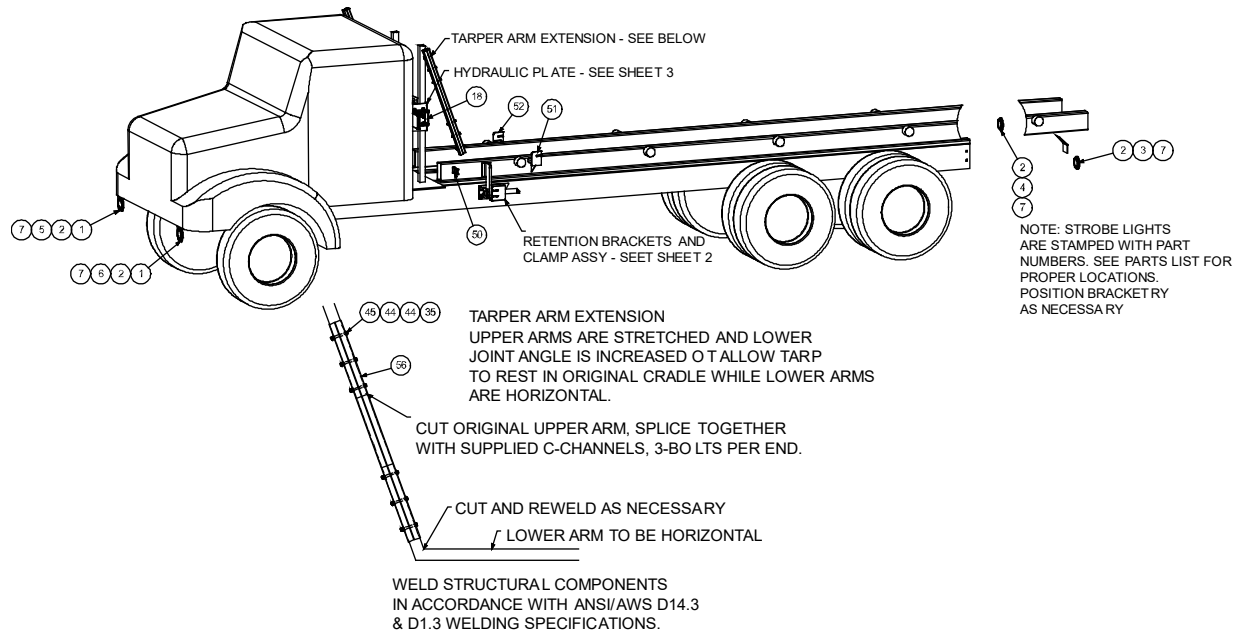
Upper arm angle modification

The tarper arms need to be modified to allow the horizontal arms to be parallel with the ground, thus extending the upper portion of the arms.

When installing the tarper arm extensions, always use 6 bolts at the bottom and top of the extension assembly.

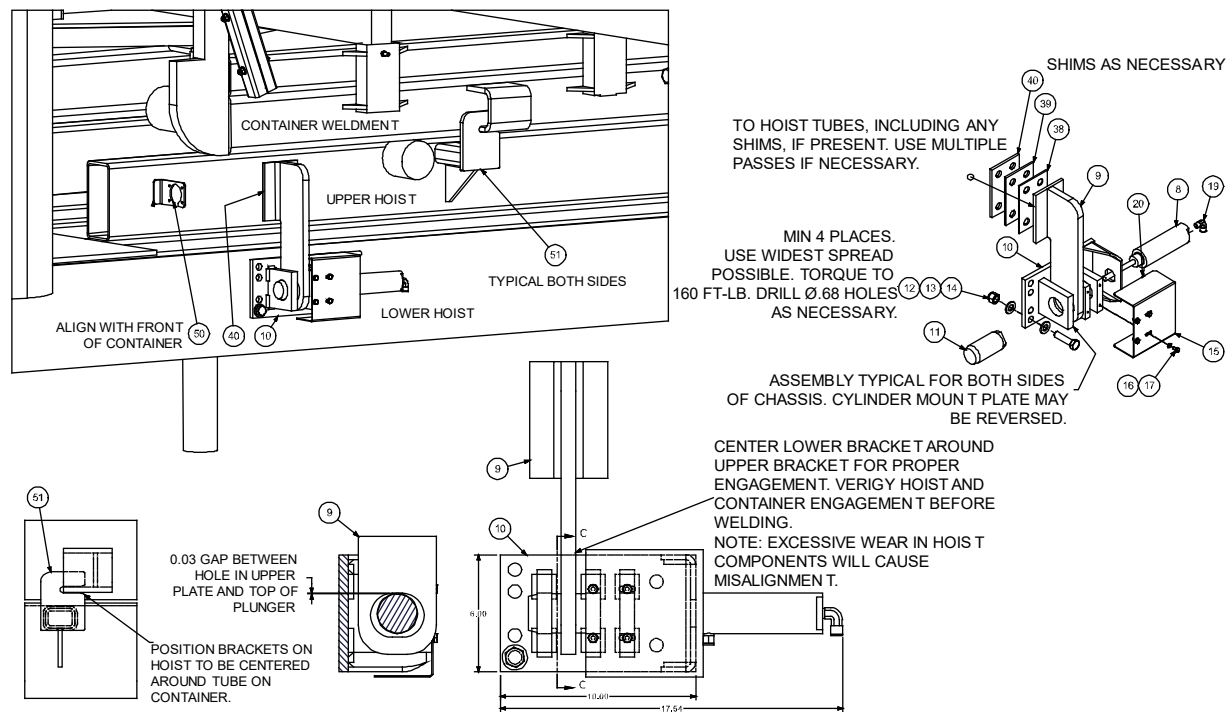
You may have to modify the angle of the upper arm. Add reinforcement plates (shown) if the arm angle is modified. See drawing 99904914 sheet 1 (**Installation Drawing (99904914)** (on page 43)) for complete details.

Installation (99904914)



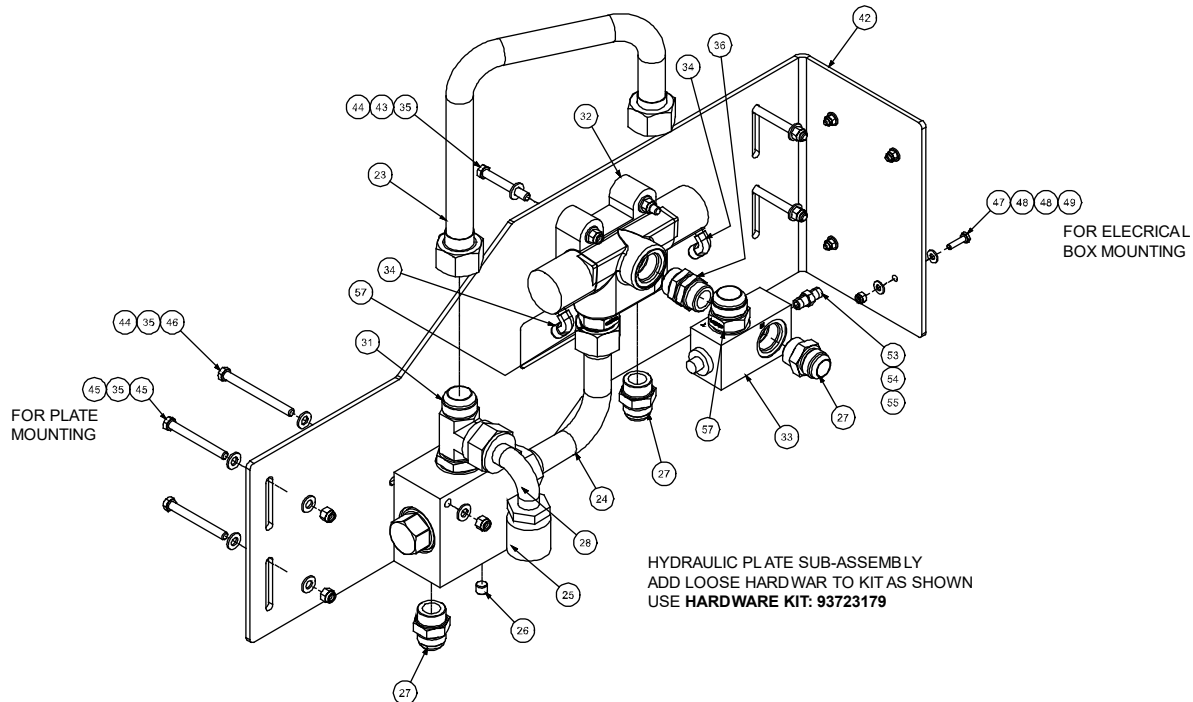
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	60135237	BRACKET-LIGHT 4" RND	
2.	76392275	GROMMET-RUBBER TAIL LIGHT 4.00	
3.	77040815	LIGHT-STROBE SMART AMBER 4IN -2	
4.	77040814	LIGHT-STROBE SMART AMBER 4IN -1	
5.	77040816	LIGHT-STROBE SMART AMBER 4IN -3	
6.	77040817	LIGHT-STROBE SMART AMBER 4IN -4	
7.	77040818	ADAPTER-LIGHT STROBE PETERSON	
18.	51723032	CONTROL BOX-BAGSTER G2	
35.	72062103	NUT .38-16 HEX NYLOCK	
44.	72063003	WASHER .38 FLAT	40
45.	72060055	CAP SCR .38-16X 3.50 HH GR5 Z	16
50.	60136142	BRACKET-HARNESS MOUNTING BAGSTER G2	1
51.	52723183	GUIDE-BODY BAGSTER G2 LH	1
52.	52723182	GUIDE-BODY BAGSTER G2 RH	1
56.	60135615	EXTENSION-TARPER ARM BAGSTER	4
REV. D			

99904914-1



ITEM NO.	PART NO.	DESCRIPTION	QTY.
8.	73540411	CYLINDER-AIR BIMBA 1.06B 1.00S REV SNGL	2
9.	52723016	WLDMT-BRKT LATCH BODY BAGSTER G2	2
10.	52723017	WLDMT-BRKT LATCH CHASSIS BAGSTER G2	2
11.	60135716	PLUNGER-LATCH BAGSTER G2	2
12.	72063119	WASHER .62 FLAT ASTM F436	16
13.	72601482	CAP SCR .62-11X 2.50 HH GR8 Z	8
14.	72601859	NUT .62-11 HEX GR8 YZ NYLOCK	8
15.	60135720	GUARD-CYLINDER BAGSTER G2	2
16.	72063049	WASHER .25 LOCK	8
17.	72060000	CAP SCR .25-20X .50 HH GR5 Z	8
19.	72533700	PUSH LOC- FTG ELBOW .38 DOT X .25 MPT	1
20.	72533698	PUSH LOC- FTG .38 DOT X .25 MPT	1
38.	60136135	SHIM-BAGSTER CLAMP MOUNT 10GA	A/R
39.	60136136	SHIM-BAGSTER CLAMP MOUNT .19	A/R
40.	60136137	SHIM-BAGSTER CLAMP MOUNT .25	A/R
50.	60136142	BRACKET-HARNESS MOUNTING BAGSTER G2	1
51.	52723183	GUIDE-BODY BAGSTER G2 LH	1
REV. D			

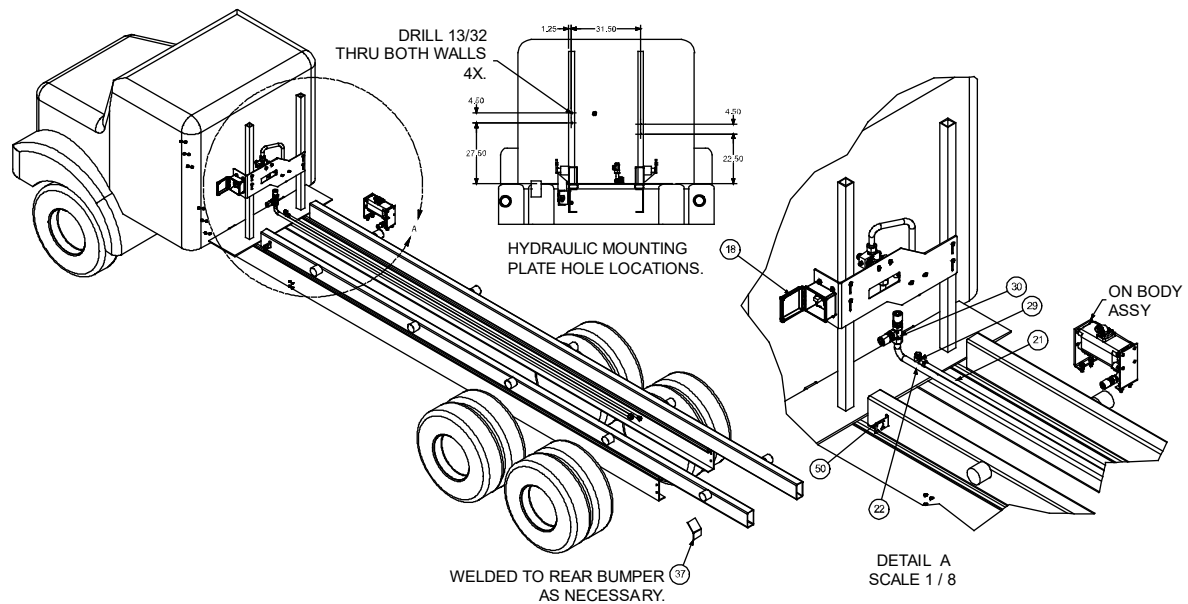
99904914-2



ITEM NO.	PART NO.	DESCRIPTION	QTY.
23.	71414189	TUBE ASM-HYD 1.25 O.D. X 9.38 X 10.38	1
24.	71414190	TUBE ASM-HYD 1.25 O.D. X 5.00 X 5.00	1
25.	73540408	VALVE-ASSY-PRIORITY FLOW CONTROL 28 GPM	1
26.	72053392	PLUG-PIPE SOC HEX STL .25	1
27.	72532370	ADPTR-M STR/M JIC 16 16	3
28.	72534749	ADPTR-M STR/M JIC 20 20	1
31.	72534757	TEE-MSTR THD RUN 20	1
32.	73540412	VALVE-SELECTOR 2POS 60GPM 1.00	1
33.	73540413	VALVE-RELIEF 60 GPM 300-3000PSI	1
34.	72534739	PUSH LOC- FTG ELBOW .38 DOT X .12 MPT	2
35.	72062103	NUT .38-16 HEX NYLOCK	20
36.	72534748	UNION-M STR/M STR 16 16 SWVL	1
42.	60135856	PLATE-BAGSTER HYDRAULIC MOUNT G2	1
43.	72060053	CAP SCR .38-16X 2.75 HH GR5	2
44.	72063003	WASHER .38 FLAT	40
45.	72060055	CAP SCR .38-16X 3.50 HH GR5 Z	16
46.	72060924	CAP SCR .38-16X 4.25 HH GR5 Z	2

ITEM NO.	PART NO.	DESCRIPTION	QTY.
47.	72060004	CAP SCR .25-20X 1.00 HH GR5 Z	4
48.	72063001	WASHER .25 FLAT	8
49.	72062104	NUT .25-20 HEX NYLOCK	4
53.	72053517	ADPTR-MPT/HEX/MPT .25 .25	1
54.	72532287	NIPPLE-DISC .25FPT STL HNV-14-M	1
55.	72534758	CAP-DUST FOR 72532287	1
57.	72534717	ADPTR-M STR/M JIC 16 20	2
REV. D			

99904914-3



ITEM NO.	PART NO.	DESCRIPTION	QTY.
18.	51723032	CONTROL BOX-BAGSTER G2	1
20.	72533698	PUSH LOC- FTG .38 DOT X .25 MPT	1
21.	71414181	TUBE ASM-HYD 1.00 O.D. X 216.00 CHASSIS PRESSURE	1
29.	72534750	ELBOW-M JIC/90/M JIC 16 16	1
30.	72534756	TEE-MALE JIC 1.62-12 1.25 TUBE	1
37.	60136134	GUARD-FENDER BAGSTER	1
50.	60136142	BRACKET-HARNESS MOUNTING BAGSTER G2	1
REV. D			

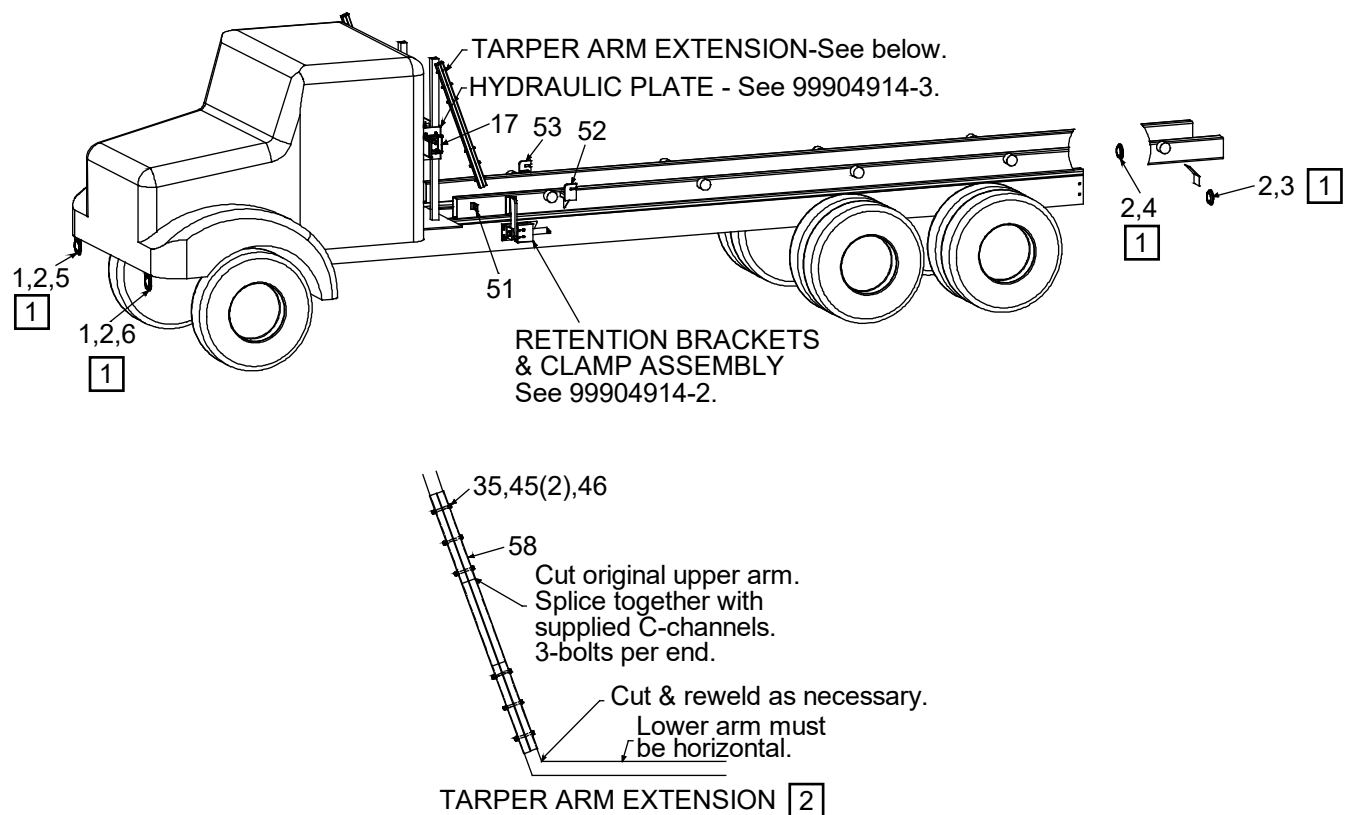
COMPLETE PARTS LIST (99904914)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	60135237	BRACKET-LIGHT 4" RND	2
2	76392275	GROMMET-RUBBER TAIL LIGHT 4.00	4
3	77040815	LIGHT-STROBE SMART AMBER 4IN -2	1
4	77040814	LIGHT-STROBE SMART AMBER 4IN -1	1
5	77040816	LIGHT-STROBE SMART AMBER 4IN -3	1
6	77040817	LIGHT-STROBE SMART AMBER 4IN -4	1
7	77040818	ADAPTER-LIGHT STROBE PETERSON	4
8	73540411	CYLINDER-AIR BIMBA 1.06B 1.00S REV SNGL	2
9	52723016	WLDMT-BRKT LATCH BODY BAGSTER G2	2
10	52723017	WLDMT-BRKT LATCH CHASSIS BAGSTER G2	2
11	60135716	PLUNGER-LATCH BAGSTER G2	2
12	72063119	WASHER .62 FLAT ASTM F436	16
13	72601482	CAP SCR .62-11X 2.50 HH GR8 Z	8
14	72601859	NUT .62-11 HEX GR8 YZ NYLOCK	8
15	60135720	GUARD-CYLINDER BAGSTER G2	2
16	72063049	WASHER .25 LOCK	8
17	72060000	CAP SCR .25-20X .50 HH GR5 Z	8
18	51723032	CONTROL BOX-BAGSTER G2	1
19	72533700	PUSH LOC- FTG ELBOW .38 DOT X .25 MPT	1
20	72533698	PUSH LOC- FTG .38 DOT X .25 MPT	1
21	71414181	TUBE ASM-HYD 1.00 O.D. X 216.00 CHASSIS PRESSURE	1
22	71414182	TUBE ASM-HYD 1.25 O.D. X 220.00 CHASSIS RETURN	1
23	71414189	TUBE ASM-HYD 1.25 O.D. X 9.38 X 10.38	1
24	71414190	TUBE ASM-HYD 1.25 O.D. X 5.00 X 5.00	1
25	73540408	VALVE-ASSY-PRIORITY FLOW CONTROL 28 GPM	1
26	72053392	PLUG-PIPE SOC HEX STL .25	1
27	72532370	ADPTR-M STR/M JIC 16 16	3
28	72534749	ADPTR-M STR/M JIC 20 20	1
29	72534750	ELBOW-M JIC/90/M JIC 16 16	1
30	72534756	TEE-MALE JIC 1.62-12 1.25 TUBE	1
31	72534757	TEE-MSTR THD RUN 20	1
32	73540412	VALVE-SELECTOR 2POS 60GPM 1.00	1
33	73540413	VALVE-RELIEF 60 GPM 300-3000PSI	1
34	72534739	PUSH LOC- FTG ELBOW .38 DOT X .12 MPT	2
35	72062103	NUT .38-16 HEX NYLOCK	20
36	72534748	UNION-M STR/M STR 16 16 SWVL	1

37	60136134	GUARD-FENDER BAGSTER	1
38	60136135	SHIM-BAGSTER CLAMP MOUNT 10GA	A/R
39	60136136	SHIM-BAGSTER CLAMP MOUNT .19	A/R
40	60136137	SHIM-BAGSTER CLAMP MOUNT .25	A/R
41	60136113	SPACER PLATE-CYLINDER MOUNT BAGSTER G2	A/R
42	60135856	PLATE-BAGSTER HYDRAULIC MOUNT G2	1
43	72060053	CAP SCR .38-16X 2.75 HH GR5	2
44	72063003	WASHER .38 FLAT	40
45	72060055	CAP SCR .38-16X 3.50 HH GR5 Z	16
46	72060924	CAP SCR .38-16X 4.25 HH GR5 Z	2
47	72060004	CAP SCR .25-20X 1.00 HH GR5 Z	4
48	72063001	WASHER .25 FLAT	8
49	72062104	NUT .25-20 HEX NYLOCK	4
50	60136142	BRACKET-HARNESS MOUNTING BAGSTER G2	1
51	52723183	GUIDE-BODY BAGSTER G2 LH	1
52	52723182	GUIDE-BODY BAGSTER G2 RH	1
53	72053517	ADPTR-MPT/HEX/MPT .25 .25	1
54	72532287	NIPPLE-DISC .25FPT STL HNV-14-M	1
55	72534758	CAP-DUST FOR 72532287	1
56	60135615	EXTENSION-TARPER ARM BAGSTER	4
57	72534717	ADPTR-M STR/M JIC 16 20	2
58	70034525	TIE-PLASTIC .50W DBL ENDED-BUTTERFLY	8
REV. D			

Assembly Drawings

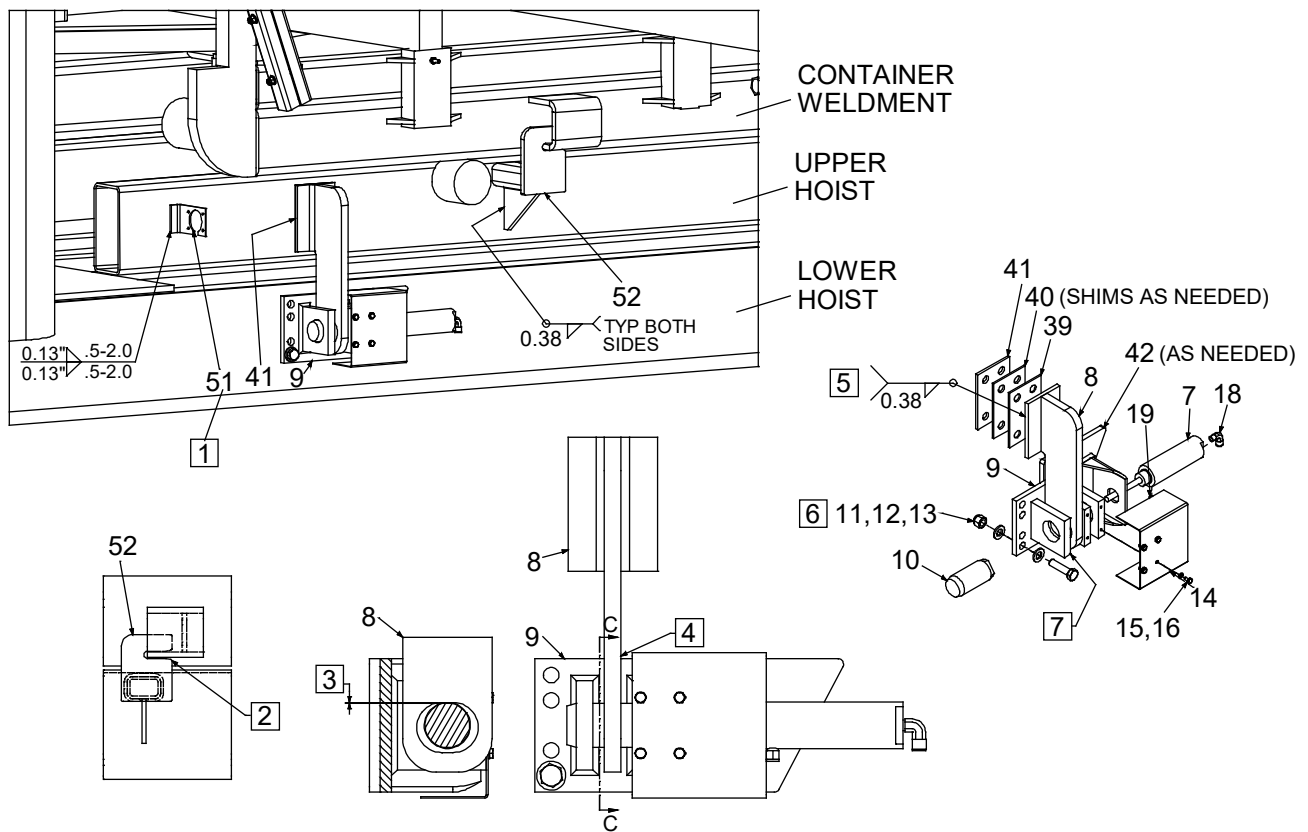
Installation Drawing (99904914)



NOTES (SEE REFERENCE NUMBER IN BOX):

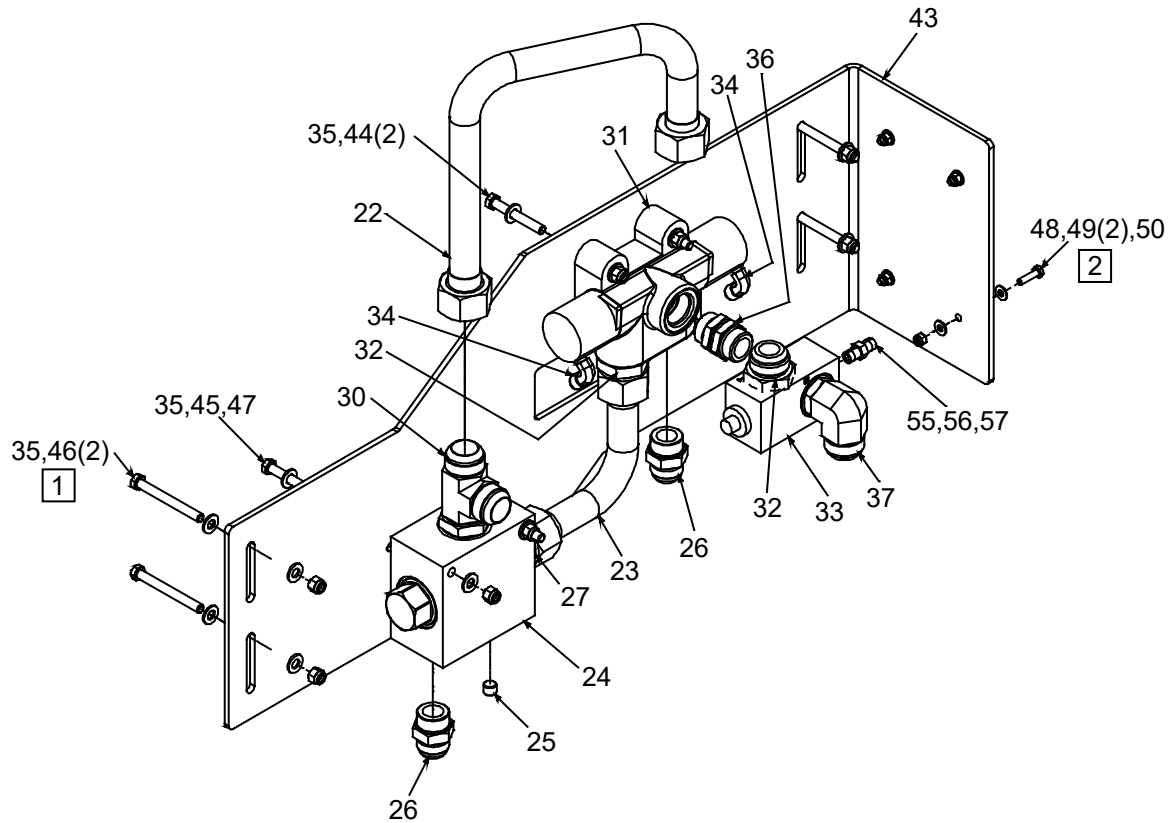
- 1 STROBE LIGHTS ARE STAMPED WITH PART NUMBERS. SEE PARTS LIST FOR PROPER LOCATIONS. POSITION BRACKETS AS NECESSARY.
- 2 UPPER ARMS ARE STRETCHED AND LOWER JOINT ANGLE IS INCREASED TO ALLOW TARP TO REST IN ORIGINAL CRADLE, WHILE LOWER ARMS ARE HORIZONTAL.

99904914-2 DRAWING



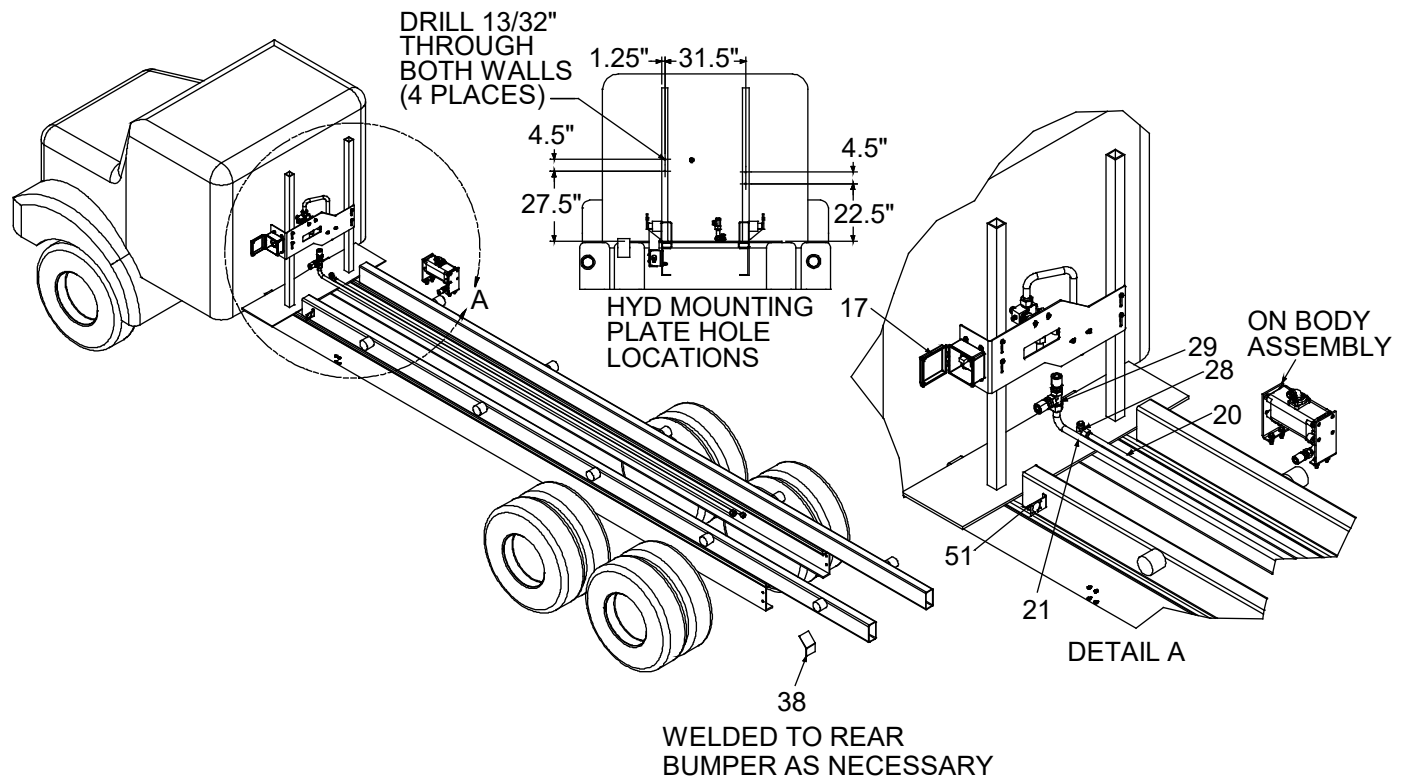
NOTES (SEE REFERENCE NUMBER IN BOX):

- 1 POSITION AT FRONT OF CONTAINER.
- 2 POSITION CONTAINER RESTRAINT BRACKET ON HOIST TO BE CENTERED AROUND POCKET ON CONTAINER.
- 3 0.03" GAP BETWEEN HOLE IN UPPER PLATE AND TOP OF PLUNGER.
- 4 CENTER LOWER BRACKET AROUND UPPER BRACKET FOR PROPER ENGAGEMENT. VERIFY HOIST AND CONTAINER ENGAGEMENT BEFORE WELDING. CAUTION - EXCESSIVE WEAR IN COMPONENTS WILL CAUSE MISALIGNMENT.
- 5 TO HOIST TUBES, INCLUDING ANY SHIMS IF PRESENT. USE MULTIPLE PASSES IF NECESSARY.
- 6 MINIMUM 4 PLACES. USE WIDEST SPREAD POSSIBLE. DRILL 0.88" HOLES AS NECESSARY. TORQUE TO 160 FT-LB (22.1 KG-M).
- 7 ASSEMBLY TYPICAL FOR BOTH SIDES OF CHASSIS. CYLINDER MOUNTING PLATE MAY BE REVERSED.

99904914-3 DRAWING (HYDRAULIC PLATE SUB-ASSEMBLY)**NOTES (SEE REFERENCE NUMBER IN BOX):**

- 1 FOR PLATE MOUNTING.
- 2 FOR ELECTRICAL BOX MOUNTING.
- 3 HYDRAULIC PLATE SUBASSEMBLY - ADD LOOSE HARDWARE TO KIT AS SHOWN. USE HARDWARE KIT 93723179.

99904914-4 DRAWING

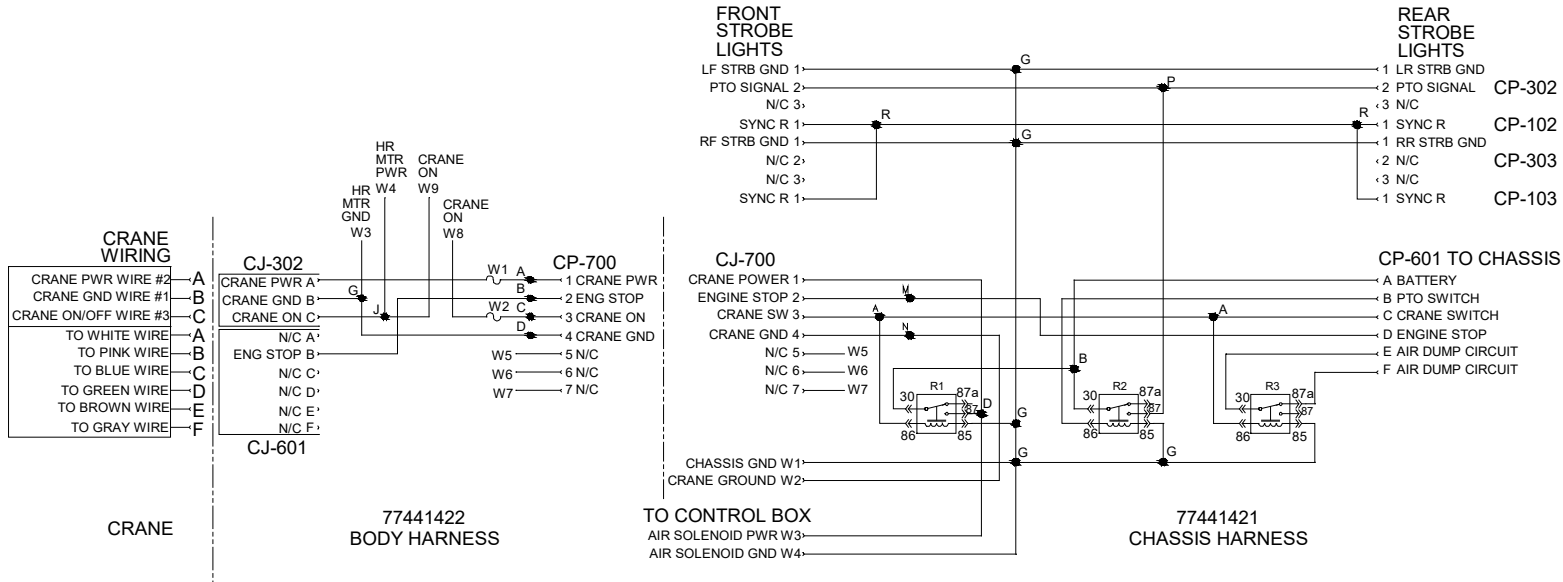


99904914 PARTS LIST

ITEM	PART #	DESCRIPTION	DETAILS	QUANTITY
1.	60135237	BRACKET-LIGHT	4" ROUND	2
2.	76392275	GROMMET-RUBBER TAIL LIGHT	4"	4
3.	77040553	LIGHT-STROBE SMART AMBER	4in LH #2	1
4.	77040554	LIGHT-STROBE SMART AMBER	4in RH #1	1
5.	77040562	LIGHT-STROBE SMART AMBER	4in RH #3	1
6.	77040561	LIGHT-STROBE SMART AMBER	4in LH #4	1
7.	73540411	CYLINDER-AIR	1.06B 1.00S REV SNGL	2
8.	52723016	WELDMENT-BRACKET LATCH BODY		2
9.	52723017	WELDMENT-BRACKET LATCH CHASSIS		2
10.	60135716	PLUNGER-LATCH		2
11.	72063119	WASHER	.62 FLAT ASTM F436	16
12.	72601482	CAP SCREW	.62-11X 2.50 HH GR8 Z	8
13.	72601859	NUT	.62-11 HEX ZINC NYLOK GR8	8
14.	60135720	GUARD-CYLINDER		2
15.	72063049	WASHER	.25 LOCK	8
16.	72060000	CAP SCREW	.25-20X .50 HH GR5 Z	8
17.	51723032	CONTROL BOX		1
18.	72533700	PUSH LOCK FITTING	ELBOW .38 DOT X .25 MPT	1

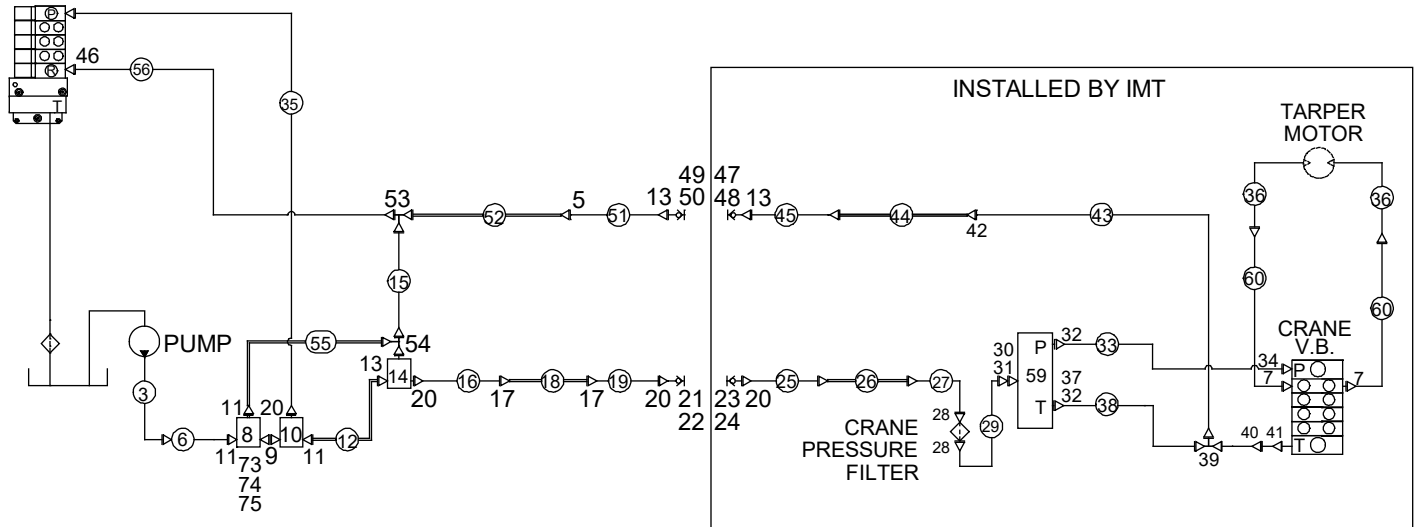
99904914 PARTS LIST				
ITEM	PART #	DESCRIPTION	DETAILS	QUANTITY
19.	72533698	PUSH LOCK FITTING	.38 DOT X .25 MPT	1
20.	71414181	TUBE ASSEMBLY-HYDRAULIC	1.00 O.D. X 216.00 CHASSIS PRESSURE	1
21.	71414182	TUBE ASSEMBLY-HYDRAULIC	1.25 O.D. X 220.00 CHASSIS RETURN	1
22.	71414189	TUBE ASSEMBLY-HYDRAULIC	1.25 O.D. X 9.38 X 10.38	1
23.	71414190	TUBE ASSEMBLY-HYDRAULIC	1.25 O.D. X 5.00 X 5.00	1
24.	73540408	VALVE-ASSEMBLY-PRIORITY FLOW CONTROL	28 GPM	1
25.	72053392	PLUG-PIPE SOC	HEX STL .25	1
26.	72532370	ADAPTER	M STR/M JIC 16 16	3
27.	72534749	ADAPTER	M STR/M JIC 20 20	1
28.	72534750	ELBOW	M JIC/90/M JIC 16 16	1
29.	72534756	TEE	MALE JIC 1.62-12 1.25 TUBE	1
30.	72534757	TEE	MSTR THD RUN 20	1
31.	73540412	VALVE-SELECTOR	2 POSITION 60GPM 1.00	1
33.	73540413	VALVE-RELIEF	60 GPM 300-3000PSI	1
34.	72534739	PUSH LOCK FITTING	ELBOW .38 DOT X .12 MPT	2
35.	72062103	NUT	.38-16 HEX NYLOCK	20
36.	72534748	UNION	M STR/M STR 16 16 SWVL	1
38.	60136134	GUARD-FENDER		1
39.	60136135	SHIM-CLAMP MOUNT	10GA	A/R
40.	60136136	SHIM-CLAMP MOUNT	0.19	A/R
41.	60136137	SHIM-CLAMP MOUNT	0.25	A/R
42.	60136113	SPACER PLATE-CYLINDER MOUNT		A/R
43.	60135856	PLATE-HYDRAULIC MOUNT		1
44.	72060053	CAP SCREW	.38-16X 2.75 HH GR5	2
45.	72063003	WASHER	.38 FLAT	40
46.	72060055	CAP SCREW	.38-16X 3.50 HH GR5 Z	16
47.	72060924	CAP SCREW	.38-16X 4.25 HH GR5 Z	2
48.	72060004	CAP SCREW	.25-20X 1.00 HH GR5 Z	4
49.	72063001	WASHER	.25 FLAT	8
50.	72062104	NUT	.25-20 HEX NYLOCK	4
51.	60136142	BRACKET-HARNESS MOUNTING		1
52.	52723183	GUIDE-BODY	LEFT HAND	1
53.	52723182	GUIDE-BODY	RIGHT HAND	1
55.	72053517	ADAPTER	MPT/HEX/MPT .25 .25	1
56.	72532287	NIPPLE-DISC	.25FPT STL HNV-14-M	1
57.	72534758	CAP-DUST	FOR 72532287	1
58.	60135615	EXTENSION-TARPER ARM		4
59.	60136511	ADAPTER	M STR/M JIC 16 20	2
REV A 20101116				

Wiring Diagram (99904919)

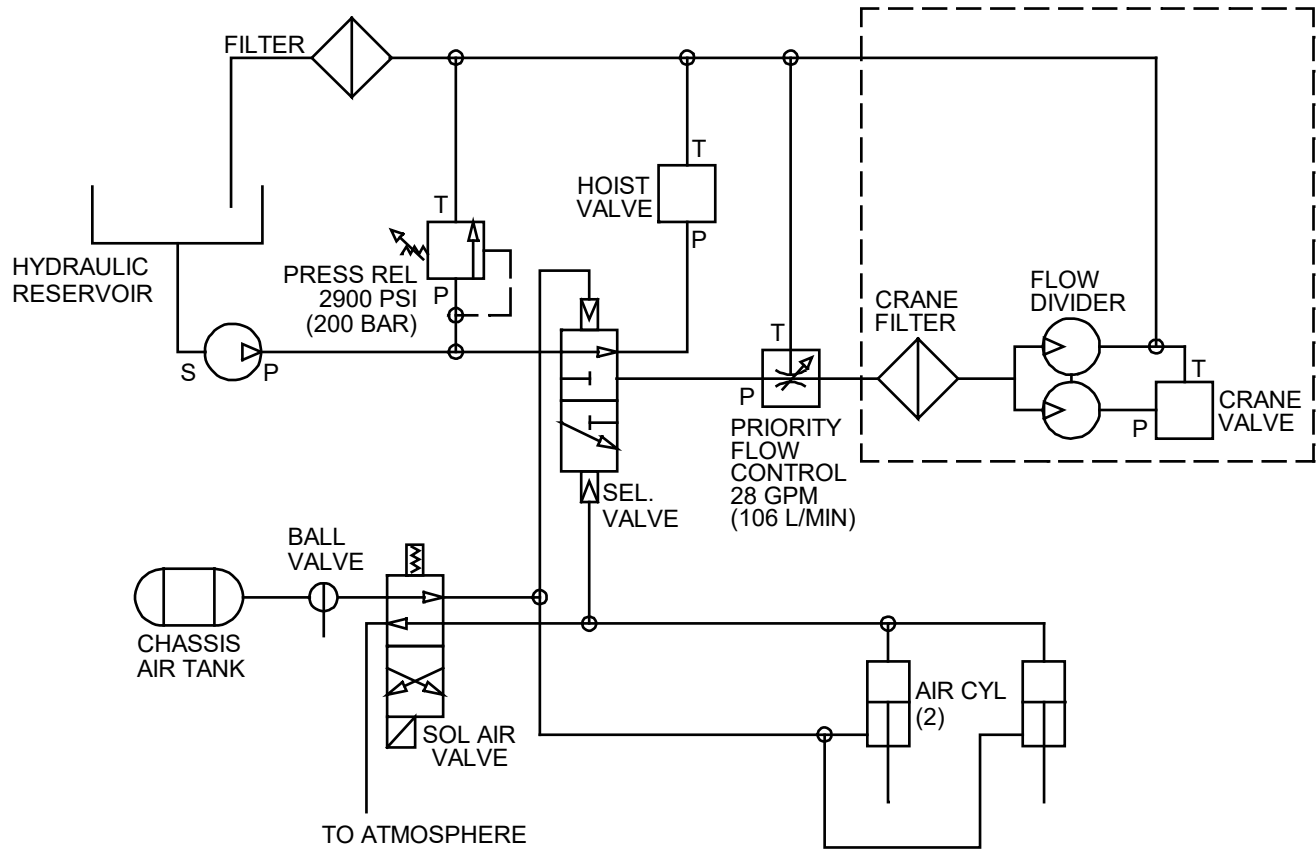


Hydraulic System (99904921)

99904921 HYDRAULIC LAYOUT



99904921 SCHEMATIC



99904921 PARTS LIST					
ITEM	PART #	DESCRIPTION	DETAILS	KIT #	QUANTITY
1.	91723049	KIT-HYDRAULIC SHIPOUT		REF	REF
2.	91723097	KIT-HYDRAULIC INSTALL		REF	REF
3.	N/A	EXISTING HOSE FROM PUMP	(1" OR 1 1/4")	REF	REF
4.	-	-		-	-
5.	72534746	ADAPTER	M JIC/M JIC 20 20	1	1
6.	51399010	HOSE	AAJ 1.00 X 23.00 (16-16) 100R12	1	1
7.	72534713	ADAPTER	M BSPP/M JIC 8 6	2	2
8.	73540413	VALVE-RELIEF	60 GPM 300-3000PSI	N/A	1
9.	72534748	UNION	M STR/M STR 16 16	1	1
10.	73540412	VALVE-SELECTOR	2POS 60GPM 1.00	1	1
11.	60136511	ADAPTER	M STR/M JIC 16 20	1	2
12.	71414190	TUBE ASSEMBLY	HYDRAULIC 1.25 O.D. X 5.00 X 5.00	N/A	1
13.	72534749	ADAPTER	M STR/M JIC 20 20	1	1
14.	73540408	PRIORITY FLOW CONTROL		N/A	1
15.	51399025	HOSE	FJ 1.25 X 18.5 (20-20) 100R4	1	1
16.	51399012	HOSE	FF 1.00 X 19.00 (16-16) 100R17	1	1
17.	72534750	ELBOW	M JIC/90/M JIC 16 16	1	2
18.	71414181	TUBE ASSEMBLY-HYDRAULIC	1.00X216.00 CHASS PRESS	N/A	1
19.	51399013	HOSE	FJ 1.00 X 32.50 (16-16) 100R17	1	1
20.	72532370	ADAPTER	M STR/M JIC 16 16	1 & 2	5
21.	72534647	QUICK DISCONNECT	16 SOCKET-FEMALE	N/A	1
22.	77041835	CAP-QUICK DISCONNECT	16 SOCKET	N/A	1
23.	72534648	QUICK DISCONNECT	16 PLUG-MALE	N/A	1
24.	77041834	CAP-QUICK DISCONNECT	16 PLUG	N/A	1
25.	51399024	HOSE	AAF 1.00 X 52.00 (16-16) 100R17	2	1
26.	71414183	TUBE ASSEMBLY-HYDRAULIC	1.00X146.00 CONT PRESS	N/A	1
27.	51399014	HOSE	AAJ 1.00 X 87.50 (16-16) 100R17	2	1
28.	72534762	ADAPTER	M BSPP/M JIC 16 16	2	2
29.	51399015	HOSE	FJ 1.00 X 16.00 (16-16) 100R17	2	1
30.	72534752	ELBOW	FLANGE/M JIC 20 16	2	1
31.	N/A	FLANGE KIT	SAE 20 (METRIC BOLTS)	59	1
32.	N/A	FLANGE KIT	SAE 16 (METRIC BOLTS)	59	2
33.	51399016	HOSE	BBEE 0.75X 56.00 (12-16) 100R13	2	1
34.	72534753	ADAPTER	M BSPP/M FACE 12 12	2	2
35.	51399011	HOSE	FF 1.00 X 43.00 (16-16) 100R12	1	1
36.	N/A	EXISTING HYDRAULIC TUBING ON CONTAINER		.	.
37.	72534755	ELBOW	FLANGE/M JIC 16 16	2	1
38.	51399017	HOSE	FJ 1.00 X 41.00 (16-16) 100R4	2	1
39.	72533000	TEE	SWIVEL NUT RUN JIC 16	2	1
40.	72534449	ADAPTER	M JIC/F JIC 16 12	2	1
41.	72534599	ADAPTER	M JIC/MM 12 20 SW	2	1
42.	72534754	ADAPTER	M JIC/F JIC 20 16	2	1
43.	51399018	HOSE	AAJ 1.00 X 36.50 (16-16) 100R4	2	1
44.	71414184	TUBE ASSEMBLY-HYDRAULIC	1.25X146.00 CONT RETURN	N/A	1

99904921 PARTS LIST					
ITEM	PART #	DESCRIPTION	DETAILS	KIT #	QUANTITY
45.	51399019	HOSE	AAF 1.25 X 53.00 (20-20) 100R4	2	1
46.	72534747	ELBOW	M STR/90/M JIC 16 20	1	1
48.	77041861	CAP-QUICK DISCONNECT	20 PLUG	N/A	1
49.	72534743	QUICK DISCONNECT	20 SOCKET-FEMALE	N/A	1
50.	77041860	CAP-QUICK DISCONNECT	20 SOCKET	N/A	1
51.	51399020	HOSE	FJ 1.25 X 24.00 (20-20) 100R4	1	1
52.	71414182	TUBE ASSEMBLY-HYDRAULIC	1.25X220.00 CHASS RETURN	N/A	1
53.	72534756	TEE	MALE JIC 1.62-12 1.25 TUBE	1	1
54.	72534757	TEE	MASTER THREAD RUN 20	1	1
55.	71414189	TUBE ASSEMBLY	HYDRAULIC 1.25 O.D. X 9.38 X 10.38	N/A	1
56.	51399021	HOSE	FF 1.25 X 36.00 (20-20) 100R4	1	1
57.	71414185	TUBE ASSEMBLY-HYDRAULIC	1.00X 17.00 PRESS EXTEND	N/A	1
58.	71414186	TUBE ASSEMBLY-HYDRAULIC	1.25X 17.00 RETURN EXTEND	N/A	1
59.	51723031	MANIFOLD ASY-FLOW DIVIDER		N/A	1
60.	51399022	HOSE	AAJ .38 X 34.00 (6-6) 100R17	2	2
61.	N/A	EXISTING HYDRAULIC TUBING ON CONTAINER		N/A	REF
62.	93723187	KIT-PNEUMATICS		N/A	REF
63.	72534739	PUSH LOC- FITTING ELBOW	.38 DOT X .12 MPT	62	6 REF
64.	72534742	PUSH LOC- UNION TEE	.38 DOT	62	1
65.	72533700	PUSH LOC- FTG ELBOW	.38 DOT X .25 MPT	62	4
66.	71414202	MUFFLER-AIR	1/8" NPT SINTERED BRONZE	N/A	1 REF
67.	72533698	PUSH LOC- FTG	.38 DOT X .25 MPT	62	1
68.	73540411	CYLINDER-AIR	2.00B 3.00S DBL ACT	N/A	2
69.	72053517	ADAPTER	MPT/HEX/MPT .25 .25	2	1
70.	73054505	VALVE-PRESS PROTECTION	.25in	62	1
71.	73054122	VALVE-BALL	0.25"	62	1
72.	70396004	TUBE-PUSHLOC	.38 AIR (CS)	62	40'
73.	72531569	ADAPTER	MPT/HEX/MPT BRS .25 .25	62	2
74.	72532287	NIPPLE-DISC	.25FPT STL HNV-14-M	2	1
75.	72534758	CAP-DUST	FOR 72532287	2	1
76.	72531812	REDUCER BUSHING-BRASS	.50- .25	62	1
REV B 20101116					