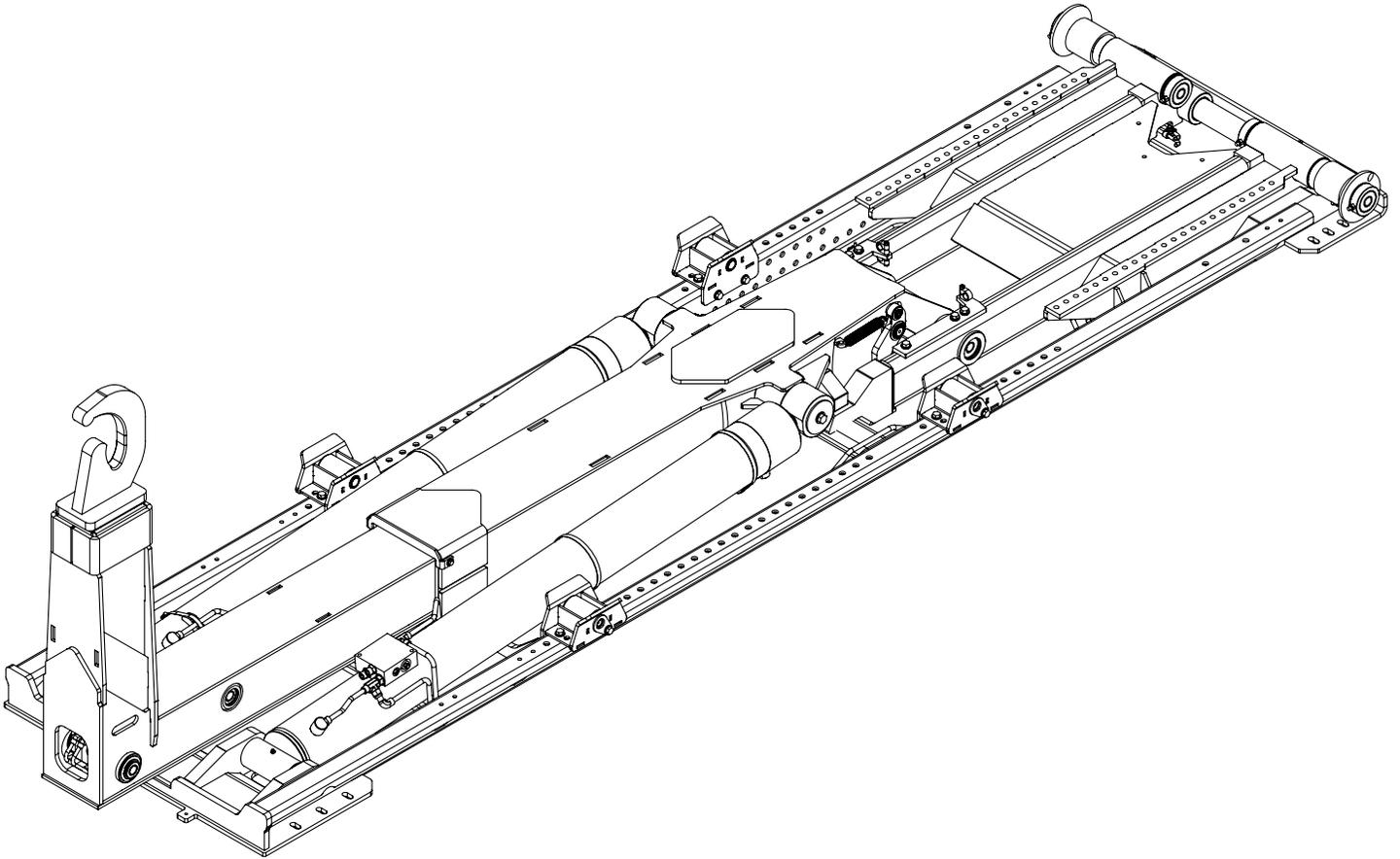




NXT24 & NXT30 Hooklift Installation Manual

Installation & Assembly Instructions



Stellar Industries, Inc.

190 State Street

PO Box 169

Garner, IA 50438

800-321-3741

Fax: 641-923-2811

www.stellarindustries.com

Subject to Change without Notification.
© 2025 Stellar Industries, Inc.

REV 1.1
PN: 142907

P65 Warning & Cold Weather Notice

⚠️ WARNING

Operating, maintaining, and servicing a Stellar product may expose you to chemicals including, but not limited to, engine exhaust, carbon monoxide, phthalates, and lead. These chemicals are known to the State of California to cause cancer and birth defects (or other reproductive harm). To keep your exposure to a minimum, be sure to avoid breathing engine exhaust and service your Stellar product in a well-ventilated area while wearing gloves or washing your hands frequently. For more information, go to www.P65Warnings.ca.gov/passenger-vehicle.



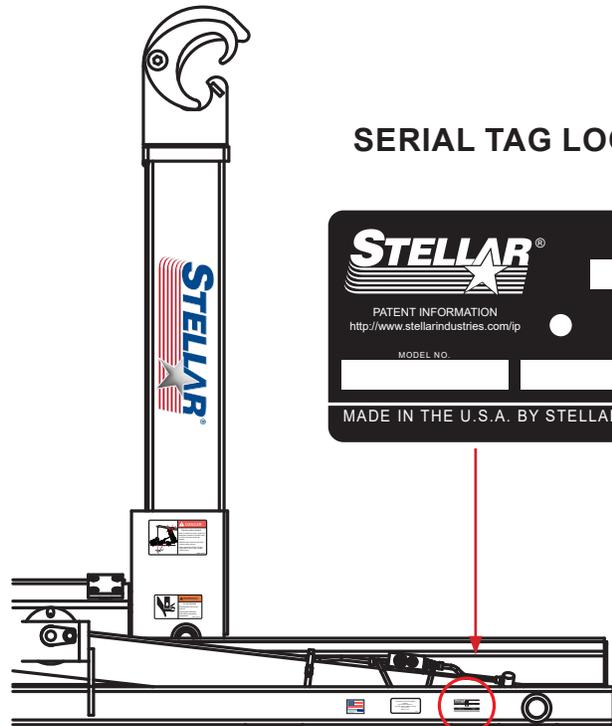
www.p65/warning.ca.gov

NOTICE

Cold Weather Performance

Although clear data on cold weather performance from every steel manufacturer is not available for all types and thicknesses of steel, Stellar Industries is confident that the weldments on our products will operate to 100% of their intended purpose to temperatures down to -40° F / C.

It is recommended if Stellar manufactured equipment needs to be used in temperatures below -40° F / C, the operator should pull the unit into a climate-controlled area and allow the weldments to warm up to and then maintain a temperature above this level.



SERIAL TAG LOCATION

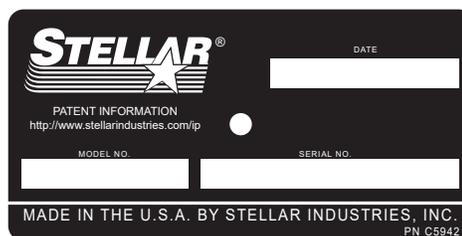


Table of Contents

Introduction	iv
Chapter 1 - Specifications	1
NXT24S & NXT24M Specifications	2
NXT24L Specifications	3
NXT24 Specifications-continued	4
NXT30S & NXT30M Specifications	5
NXT30L Specifications	6
NXT30 Specifications-continued	7
Chapter 2 - Installation Instructions	9
General Installation.....	10
Installer Notice	10
Torque Data Chart	11
Torquing Information & Warnings	11
Fittings	12
Flat Face O-Ring Seal - FFORX	12
SAE 37° JIC	12
Fittings - Continued	13
O-Ring Boss	13
Face Seal Female Swivel Fittings	13
Step 1: Set The Hooklift Onto The Truck Frame.....	14
Installation Notice	14
Step 2: Assemble Mounting Kit PN - 140048	15
NXT 24 & 30 Long Mounting Kit - PN 141735.....	16
NXT24 & NXT30 Short & Med - Mounting	17
NXT24 & NXT30 Short & Med - Mounting - Continued	18
NXT24 & NXT30 Short & Med - Mounting	19
NXT24 & NXT30 Short & Med - Mounting - Continued	20
NXT24 & NXT30 Long - Mounting -Continued	21
NXT24 & NXT30 Long - Mounting - Continued	22
NXT24 & NXT30 Long - Mounting -Continued	23
Step 3: Install Bumper	24
Step 3A: Install Bumper.....	25
Step 4: Bumper Electrical Schematic	26
Step 4A: Bumper Electrical Schematic.....	27
Step 5: Installation - Valve Bank Assembly - PN 129905	28
Installation - Hydraulic Tank Assembly - PN 130144	29
Step 6: Install PTO and Pump	30
Step 7: Route Hydraulic Hoses	31
Hose Kit - PN 142879.....	32
Hose Kit - PN 142878.....	33
Hose Kit - PN 142880.....	34
Hose Kit - PN 140346.....	35
Hose Kit - PN 142881.....	36
Hose Kit - PN 141791.....	37
Power Beyond VDM8 Valve.....	38
2-Sect Controller Cable Asm - PN 142854	40
2-Sect Air Controller Asm - PN 142874	41
2-Sect Electric Controller Asm - PN 136972.....	42
2-Sect Electric Controller Asm - PN 136972 Parts List.....	43
2-Sect Radio Controller Asm - PN 141518	44
2-Sect Radio Controller Asm - PN 141518 Parts List.....	45

Table of Contents - Continued

- Controller Assembly - Cable46
- Controller Assembly - Air46
- Controller Assembly - Electric.....46
- Controller Assembly - Radio46
- Step 8: Install Hoist Up Light Sensor - PN 127153.....48
- Hoist Up Light Sensor - PN 127153 Parts49
- Step 9: Install Mud Flaps And Fenders.....50
- Fender Dimensions51
- Step 10: Apply Chassis Decals - PN 12101252
- Step 10A: Apply Chassis Decals53
- Step 11: Fill Reservoir And Activate Hydraulic Flow54
- Step 12: Operate Hooklift.....54

This page left intentionally blank.

Introduction

A copy of this manual is provided with every hooklift and can be found in the hard plastic manual case that is installed on the chassis. A copy of this manual shall remain with the hooklift at all times.

Throughout the manual, three signal words will be used to bring attention to important items:

NOTICE

NOTICE indicates a practice not related to physical injury.

⚠ WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠ DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

Information contained within this manual does not cover operation, maintenance, or troubleshooting. Please refer to the General Hooklift Manual for details on these items.

This manual is not binding. Stellar Industries, Inc. reserves the right to change, at any time, any or all of the items, components, and parts deemed necessary for product improvement or commercial/production purposes. This right is kept with no requirement or obligation for immediate mandatory updating of this manual.

If more information is required or technical assistance is needed, or if you feel that any part of this manual is unclear or incorrect, please contact the Stellar Customer Service Department by phone at 800-321-3741 or email at service@stellarindustries.com.



www.stellarindustries.com

**For Technical Questions, Information, Parts, or Warranty, Call Toll-Free at
800-321-3741**

Hours: Monday - Friday, 8:00 a.m. - 5:00 p.m. CST

Or email at the following addresses:

Technical Questions, and Information

service@stellarindustries.com

Order Parts

parts@stellarindustries.com

Warranty Information

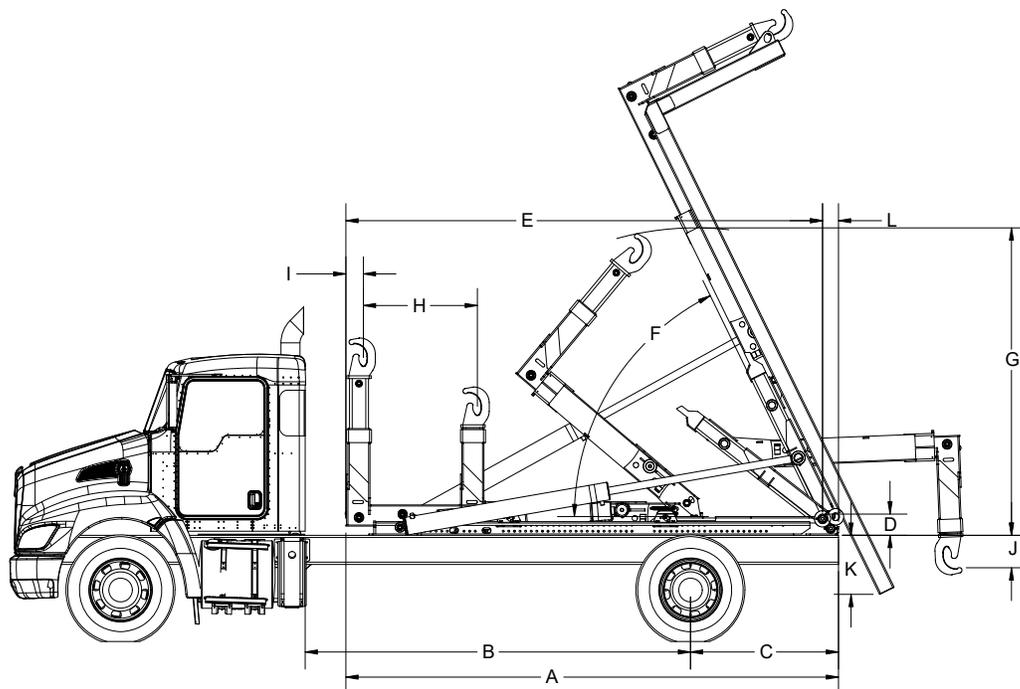
warranty@stellarindustries.com

Chapter 1 - Specifications

CHAPTER CONTENTS

NXT24S & NXT24M Specifications	2
NXT24L Specifications	3
NXT24 Specifications-continued	4
NXT30S & NXT30M Specifications	5
NXT30L Specifications	6
NXT30 Specifications-continued	7

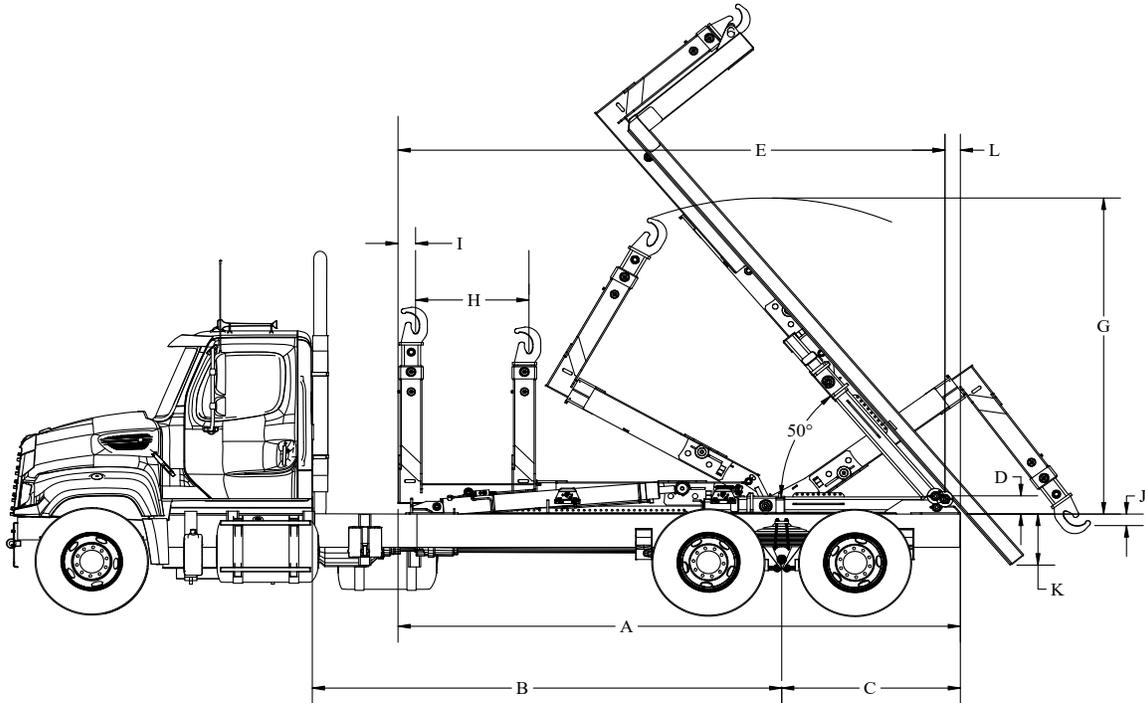
NXT24S & NXT24M Specifications



		NXT24S 54"HH	NXT24M 54" / 61.75"HH
A	OVERALL LENGTH	150.31" (3,818 mm)	181.53" (4,611 mm)
B	CAB-TO-AXLE RANGE	108" TO 120" (2,743 to 3,048 mm) 120" TO 134" (3,048 to 3,404 mm) TARP	130" TO 144" (3,302 to 3,658 mm) 142" TO 156" (3,607 to 3,962 mm) TARP
C	AFTER FRAME RANGE	45.50" (1,156 mm)	54.50" (1,384 mm)
D	LOADER HEIGHT	8.00" (203 mm)	8.00" (203 mm)
E	FRONT OF JIB TO CENTERLINE OF ROLLER	144.44" (3,669 mm)	175.63" (4,461 mm)
F	DUMP ANGLE	63°	
G	MAX TILT HEIGHT	35.63" HH: 92.05" (2,338 mm) 54" HH: 103.29" (2,624 mm)	35.63" HH: 102.08" (2,593 mm) 54" HH: 112.25" (2,851 mm) 61.75" HH: 117.20" (2,977 mm)
H	JIB TRAVEL	30" (762 mm)	42" (1,067 mm)
I	FRONT OF JIB TO CENTERLINE OF HOOK	6.44" (164 mm)	6.44" (164 mm)
J	HOOK BELOW FRAME	35.63" HH: 11.97" (304 mm) Below Frame 54.00" HH: 29.79" (757 mm) Below Frame	35.63" HH: 11.83" (300 mm) BELOW FRAME 54.00" HH: 29.63" (753 mm) BELOW FRAME 61.75" HH: 37.43" (951 mm) BELOW FRAME
K	LOWEST POINT OF DUMP*	28.00" (711 mm)	21.83" (555 mm)
L	CENTERLINE TO BACK OF ROLLER	5.88" (149 mm)	5.88" (149 mm)
M	MINIMUM CHASSIS RBM	1,300,000	

***ASSUMES 3' OVERHANG FROM CENTER OF REAR ROLLER PIN. (BUMPER TYPICALLY 12" FROM CENTER OF ROLLER PIN) Rev. Initial Release-140099-202510**

NXT24L Specifications

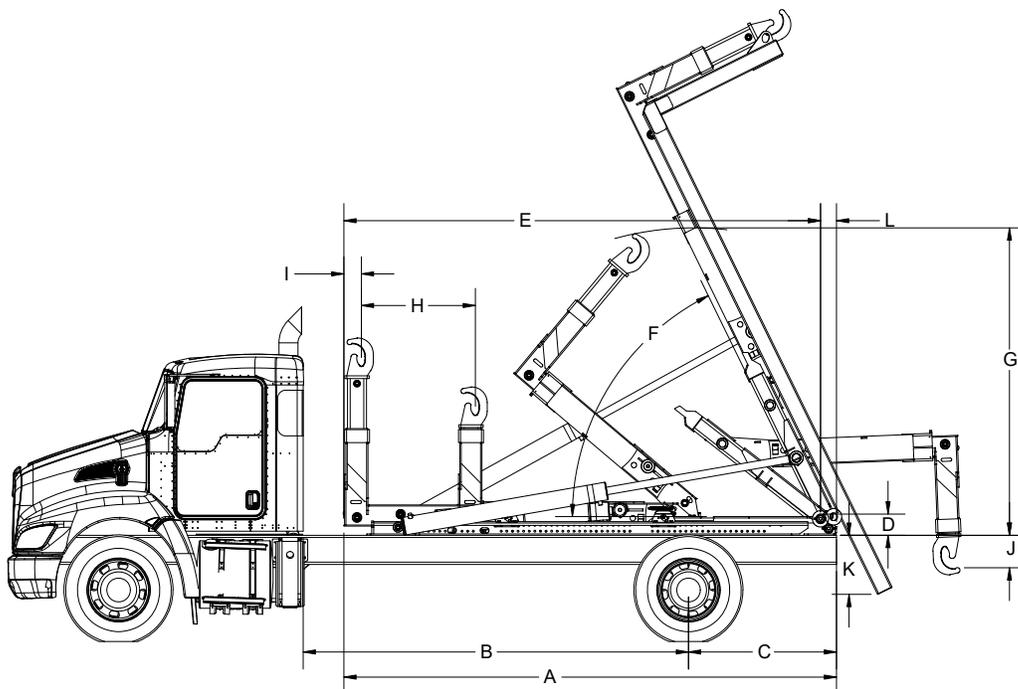


		NXT24L 54" OR 62" HH
A	OVERALL LENGTH	208.32" (5,291 mm)
B	CAB-TO-AXLE RANGE	154" TO 168" (3,911 to 4,267 mm) 166" TO 180" (4,216 to 4,571 mm) TARP
C	AFTER FRAME RANGE	58" (1,473 mm)
D	LOADER HEIGHT	9.00" (229 mm)
E	FRONT OF JIB TO CENTERLINE OF ROLLER	227" (5,766 mm)
F	DUMP ANGLE	52°
G	MAX TILT HEIGHT	54" HH: 118.88" (3,019 mm) 62" HH: 123.50" (3,137 mm)
H	JIB TRAVEL	42" (1,067 mm)
I	FRONT OF JIB TO CENTERLINE OF HOOK	5.19" (132 mm)
J	HOOK BELOW FRAME	54" HH: 3.63" (92 mm) Above Frame 62" HH: 4.50" (114 mm) Below Frame
K	LOWEST POINT OF DUMP*	20.00" (508 mm)
L	CENTERLINE TO BACK OF ROLLER	9.25" (235 mm)
<p>*ASSUMES 3' OVERHANG FROM CENTER OF REAR ROLLER PIN. (BUMPER TYPICALLY 12" FROM CENTER OF ROLLER PIN) Rev. Initial Release-143884-202510</p>		

NXT24 Specifications-continued

	NXT24S	NXT24M	NXT24L
HOOK HEIGHT:	35.63" (914 mm) / 54.00" (1,372 mm)	35.63" (914 mm) / 54.00" (1,372 mm) OR 54.00" (1,372 mm) / 61.75" (1,568 mm)	54" (1,372 mm) or 61.75" (1,568 mm)
LIFT CAPACITY:	35.63" & 54.00" HH: 24,000 LB (10,886 kg)	35.63" HH: NXT24M - 24,000 LB (10,886 kg) 54.00" HH: NXT24M - 24,000 LB (10,886 kg) 61.75" HH: NXT24M -24,000 LB (10,886 kg)	NXT24L 54.00" or 61.75" 24,000 LB (10,886 kg)
DUMP CAPACITY:	NXT24S -24,000 LB (10,886 kg)	NXT24M - 24,000 LB (10,886 kg)	NXT24L - 30,000 LB (13,608 kg)
CYCLE TIMES:	TILT/DUMP EXTEND NXT24S:17 SECONDS	TILT/DUMP EXTEND NXT24M: 29 SECONDS	TILT / DUMP EXTEND 24L - 22 SECONDS
	TILT/DUMP RETRACT NXT24S:21 SECONDS	TILT/DUMP RETRACT NXT24M: 32 SECONDS	TILT / DUMP RETRACT 24L - 24 SECONDS
	JIB EXTEND - 4 SECONDS	JIB EXTEND - 4 SECONDS	JIB EXTEND - 5 SECONDS
	JIB RETRACT - 5 SECONDS	JIB RETRACT - 5 SECONDS	JIB RETRACT - 6 SECONDS
	(TIMES BASED ON 24 GPM OF OIL FLOW)		
SHIPPING WEIGHT	—	—	—
	—	—	—
	35.63"/54" MANUAL JIB NXT24S: 3,045 LB (1,381 kg)	35.63"/54" MANUAL JIB NXT24M: 3,494 LB (1,584 kg)	LONG/SHORT VERSION MANUAL JIB: 5,590 LB (2,535 kg)
	35.63"/54" HYDRAULIC JIB NXT24S: 3,161 LB (1,434 kg)	35.63"/54" HYDRAULIC JIB NXT24M: 3,665 LB (1663 kg)	LONG/SHORT VERSION HYDRAULIC JIB: 5,695 LB (2,583 kg)
	—	54"/61.75" MANUAL JIB NXT24M: 3,572 LB (1,620 kg)	—
	—	54"/61.75" HYDRAULIC JIB NXT24M: 3,762 LB (1,707 kg)	—
(WITHOUT RESERVOIR AND BODY LOCKS)			
BODY LENGTHS:	10' - 14' (3,048 - 4,267mm)	SHORT VERSION: 12' - 16' (3,658 - 4,877 mm)	14' - 18' (4,268 - 5,487 mm)
MIN. TRUCK GVWR:	NXT24S: 25,000 LB (11,340 kg)	NXT24M: 25,000 LB (11,340 kg)	NXT24L: 25,000 LB (11,340 kg)
MIN RBM	1,300,000		
MAXIMUM HYDRAULIC FLOW:	24 GPM (90.8 LPM)		
OPERATING PRESSURE:	4,500 PSI (310 BAR)		
COMPONENTS:	<ul style="list-style-type: none"> • MAIN COMPONENTS ARE MANUFACTURED WITH HIGH-STRENGTH STEEL. • GREASABLE BUSHINGS AT ALL PIVOT POINTS. ALL PINS ARE ZINC-PLATED CARBON STEEL AS STANDARD WITH OPTION TO UPGRADE TO TYPE 17-4 STAINLESS PINS. 		
REV. INITIAL RELEASE - 140099 / 143884-202510			

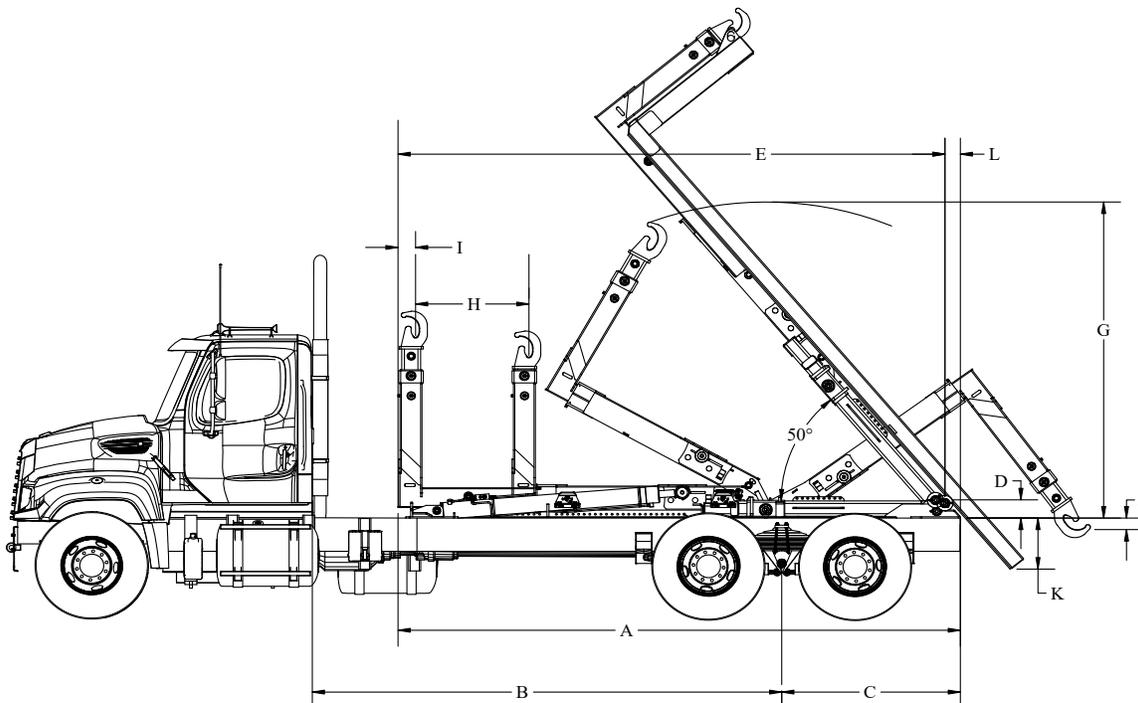
NXT30S & NXT30M Specifications



		NXT30S 54"HH	NXT30M 54" / 61.75"HH
A	OVERALL LENGTH	150.31" (3,818 mm)	181.53" (4,611 mm)
B	CAB-TO-AXLE RANGE	108" TO 120" (2,743 to 3,048 mm) 120" TO 134" (3,048 to 3,404 mm) TARP	130" TO 144" (3,302 to 3,658 mm) 142" TO 156" (3,607 to 3,962 mm) TARP
C	AFTER FRAME RANGE	45.50" (1,156 mm)	54.50" (1,384 mm)
D	LOADER HEIGHT	8.00" (203 mm)	8.00" (203 mm)
E	FRONT OF JIB TO CENTERLINE OF ROLLER	144.44" (3,669 mm)	175.63" (4,461 mm)
F	DUMP ANGLE	63°	
G	MAX TILT HEIGHT	35.63" HH: 92.05" (2,338 mm) 54" HH: 103.29" (2,624 mm)	35.63" HH: 102.08" (2,593 mm) 54" HH: 112.25" (2,851 mm) 61.75" HH: 117.20" (2,977 mm)
H	JIB TRAVEL	30" (762 mm)	42" (1,067 mm)
I	FRONT OF JIB TO CENTERLINE OF HOOK	6.44" (164 mm)	6.44" (164 mm)
J	HOOK BELOW FRAME	35.63" HH: 11.97" (304 mm) Below Frame 54.00" HH: 29.79" (757 mm) Below Frame	35.63" HH: 11.83" (300 mm) BELOW FRAME 54.00" HH: 29.63" (753 mm) BELOW FRAME 61.75" HH: 37.43" (951 mm) BELOW FRAME
K	LOWEST POINT OF DUMP*	28.00" (711 mm)	21.83" (555 mm)
L	CENTERLINE TO BACK OF ROLLER	5.88" (149 mm)	5.88" (149 mm)
M	MINIMUM CHASSIS RBM	1,300,000	

***ASSUMES 3' OVERHANG FROM CENTER OF REAR ROLLER PIN. (BUMPER TYPICALLY 12" FROM CENTER OF ROLLER PIN) Rev. Initial Release-140099-202510**

NXT30L Specifications



		NXT30L 54" OR 62" HH
A	OVERALL LENGTH	208.32" (5,291 mm)
B	CAB-TO-AXLE RANGE	154" TO 168" (3,911 to 4,267 mm) 166" TO 180" (4,216 to 4,571 mm) TARP
C	AFTER FRAME RANGE	58" (1,473 mm)
D	LOADER HEIGHT	9.00" (229 mm)
E	FRONT OF JIB TO CENTERLINE OF ROLLER	227" (5,766 mm)
F	DUMP ANGLE	52°
G	MAX TILT HEIGHT	54" HH: 118.88" (3,019 mm) 62" HH: 123.50" (3,137 mm)
H	JIB TRAVEL	42" (1,067 mm)
I	FRONT OF JIB TO CENTERLINE OF HOOK	5.19" (132 mm)
J	HOOK BELOW FRAME	54" HH: 3.63" (92 mm) Above Frame 62" HH: 4.50" (114 mm) Below Frame
K	LOWEST POINT OF DUMP*	20.00" (508 mm)
L	CENTERLINE TO BACK OF ROLLER	9.25" (235 mm)
<p>*ASSUMES 3' OVERHANG FROM CENTER OF REAR ROLLER PIN. (BUMPER TYPICALLY 12" FROM CENTER OF ROLLER PIN) Rev. Initial Release-143884-202510</p>		

NXT30 Specifications-continued

	NXT30S	NXT30M	NXT30L
HOOK HEIGHT:	35.63" (914 mm) / 54.00" (1,372 mm)	35.63" (914 mm) / 54.00" (1,372 mm) OR 54.00" (1,372 mm) / 61.75" (1,568 mm)	54" (1,372 mm) or 61.75" (1,568 mm)
LIFT CAPACITY:	35.63" & 54.00" HH: 30,000 LB (13,608 kg)	35.63" HH: NXT30M - 30,000 LB (13,608 kg) 54.00" HH: NXT30M - 30,000 LB (13,608 kg) 61.75" HH: NXT30M - 30,000 LB (13,608 kg)	NXT30L 54.00" or 61.75" 30,000 LB (13,608 kg)
DUMP CAPACITY:	NXT30S - 30,000 LB (13,608 kg)	NXT30M - 30,000 LB (13,608 kg)	NXT30L - 30,000 LB (13,608 kg)
CYCLE TIMES:	TILT/DUMP EXTEND NXT30S: 21 SECONDS	TILT/DUMP EXTEND NXT30M: 29 SECONDS	TILT / DUMP EXTEND 30L - 26 SECONDS
	TILT/DUMP RETRACT NXT30S: 23 SECONDS	TILT/DUMP RETRACT NXT30M: 32 SECONDS	TILT / DUMP RETRACT 30L - 29 SECONDS
	JIB EXTEND - 4 SECONDS	JIB EXTEND - 4 SECONDS	JIB EXTEND - 5 SECONDS
	JIB RETRACT - 5 SECONDS	JIB RETRACT - 5 SECONDS	JIB RETRACT - 6 SECONDS
	(TIMES BASED ON 24 GPM OF OIL FLOW)		
SHIPPING WEIGHT	—	—	—
	—	—	—
	35.63"/54" MANUAL JIB NXT30S: 3,045 LB (1,381 kg)	35.63"/54" MANUAL JIB NXT30M: 3,494 LB (1,584 kg)	LONG/SHORT VERSION MANUAL JIB: 5,590 LB (2,535 kg)
	35.63"/54" HYDRAULIC JIB NXT30S: 3,161 LB (1,434 kg)	35.63"/54" HYDRAULIC JIB NXT30M: 3,665 LB (1,663 kg)	LONG/SHORT VERSION HYDRAULIC JIB: 5,695 LB (2,583 kg)
	—	54"/61.75" MANUAL JIB NXT30M: 3,572 LB (1,620 kg)	—
	—	54"/61.75" HYDRAULIC JIB NXT30M: 3,762 LB (1,707 kg)	—
	(WITHOUT RESERVOIR AND BODY LOCKS)		
BODY LENGTHS:	10' - 14' (3,048 - 4,267mm)	SHORT VERSION: 12' - 16' (3,658 - 4,877 mm)	14' - 18' (4,268 - 5,487 mm)
MIN. TRUCK GVWR:	NXT30S: 31,000 LB (14,061kg)	NXT30M: 31,000 LB (14,061 kg)	NXT30L - 31,000 LB (14,061 kg)
MIN RBM	1,300,000		
MAXIMUM HYDRAULIC FLOW:	24 GPM (90.8 LPM)		
OPERATING PRESSURE:	4,500 PSI (310 BAR)		
COMPONENTS:	<ul style="list-style-type: none"> • MAIN COMPONENTS ARE MANUFACTURED WITH HIGH-STRENGTH STEEL. • GREASABLE BUSHINGS AT ALL PIVOT POINTS. ALL PINS ARE ZINC-PLATED CARBON STEEL AS STANDARD WITH OPTION TO UPGRADE TO TYPE 17-4 STAINLESS PINS. 		
REV. INITIAL RELEASE - 140099 / 143884-202510			

This page left intentionally blank.

Chapter 2 - Installation Instructions

CHAPTER CONTENTS

General Installation	10
Installer Notice	10
Torque Data Chart	11
Torquing Information & Warnings	11
Fittings	12
Flat Face O-Ring Seal - FFORX	12
SAE 37° JIC	12
Fittings - Continued	13
O-Ring Boss	13
Face Seal Female Swivel Fittings.....	13
Step 1: Set The Hooklift Onto The Truck Frame	14
Installation Notice	14
Step 2: Assemble Mounting Kit PN - 140048	15
NXT 24 & 30 Long Mounting Kit - PN 141735.....	16
NXT24 & NXT30 Short & Med - Mounting	17
NXT24 & NXT30 Short & Med - Mounting - Continued	18
NXT24 & NXT30 Short & Med - Mounting	19
NXT24 & NXT30 Short & Med - Mounting - Continued	20
NXT24 & NXT30 Long - Mounting -Continued	21
NXT24 & NXT30 Long - Mounting - Continued	22
NXT24 & NXT30 Long - Mounting -Continued	23
Step 3: Install Bumper	24
Step 3A: Install Bumper.....	25
Step 4: Bumper Electrical Schematic.....	26
Step 4A: Bumper Electrical Schematic.....	27
Step 5: Installation - Valve Bank Assembly - PN 129905	28
Installation - Hydraulic Tank Assembly - PN 130144.....	29
Step 6: Install PTO and Pump.....	30
Step 7: Route Hydraulic Hoses	31
Hose Kit - PN 142879.....	32
Hose Kit - PN 142878.....	33
Hose Kit - PN 142880.....	34
Hose Kit - PN 140346.....	35
Hose Kit - PN 142881.....	36
Hose Kit - PN 141791.....	37
Power Beyond VDM8 Valve.....	38
2-Sect Controller Cable Asm - PN 142854.....	40
2-Sect Air Controller Asm - PN 142874.....	41
2-Sect Electric Controller Asm - PN 136972	42
2-Sect Electric Controller Asm - PN 136972 Parts List	43
2-Sect Radio Controller Asm - PN 141518.....	44
2-Sect Radio Controller Asm - PN 141518 Parts List.....	45
Controller Assembly - Cable.....	46
Controller Assembly - Air.....	46
Controller Assembly - Electric	46
Controller Assembly - Radio.....	46
Step 8: Install Hoist Up Light Sensor - PN 127153	48
Hoist Up Light Sensor - PN 127153 Parts.....	49
Step 9: Install Mud Flaps And Fenders	50
Fender Dimensions	51
Step 10: Apply Chassis Decals - PN 121012	52
Step 10A: Apply Chassis Decals	53
Step 11: Fill Reservoir And Activate Hydraulic Flow.....	54
Step 12: Operate Hooklift.....	54

General Installation

This chapter is designed to serve as a general guide for the installation of a Stellar® hooklift. Each installation is considered unique so certain portions of this chapter may or may not apply to your direct application. If a question should arise during the installation process, please contact Stellar Customer Service at (800) 321 3741.

PTO and Pump installation instructions are provided by the corresponding manufacturers. For more information on which PTO and Pump fit your application, please contact your local Stellar Distributor or Stellar Customer Service.

⚠ WARNING

Do not install this hooklift on a chassis not capable of handling the loads imposed on it. Failure to do so may result in serious injury or death.

NOTICE

Do not weld or drill holes into the side wall of the base tubes.

Hooklift Mounting and Assembly

Study names and locations of the parts and familiarize yourself with the hooklift before starting the assembly. Reading the step-by-step instructions that follow will be helpful.

Assembly

Select an area for assembly that will be large enough to accommodate the completed unit. The surface of the work area should be as level as possible. Use the proper hand tools to ensure proper bolt tightness. Refer to the torque data chart in this chapter for the recommended torque values for different sizes of bolts.

Model Number

Know the model number of the Stellar® Hooklift being mounted. Use this model number whenever referring to the assembly or parts listing pages. The number is stamped on the name plate which is located on the front frame member.

Installer Notice

According to Federal Law (49 cfr part 571), each final-stage manufacturer shall complete the vehicle in such a manner that it conforms to the standards in effect on the date of manufacture of the incomplete vehicle, the date of final completion, or a date between those two dates. This requirement shall, however, be superseded by any conflicting provisions of a standard that applies by its terms to vehicles manufactured in two or more stages.

Therefore, the installer of Stellar® Hooklifts is considered one of the manufacturers of the vehicle. As such a manufacturer, the installer is responsible for compliance with all applicable federal and state regulations. They are required to certify that the vehicle is in compliance with the Federal Motor Vehicle Safety Standards and other regulations issued under the National Traffic and Motor Vehicle Safety Act.

Please reference the Code of Federal Regulations, title 49 - Transportation, Volume 5 (400-999), for further information, or visit <http://www.gpoaccess.gov/nara/index.html> for the full text of Code of Federal Regulations.

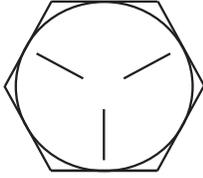
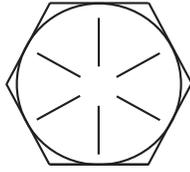
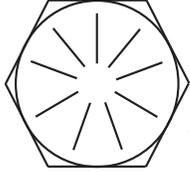


www.nhtsa.gov



www.ecf.gov/current/title-49

Torque Data Chart

		GRADE 5		GRADE 8		GRADE 9
						
SIZE (DIA - TPI)	BOLT DIA (INCHES)	PLAIN (FT-LB)	PLATED (FT-LB)	PLAIN (FT-LB)	PLATED (FT-LB)	PLATED (FT-LB)
5/16-18	0.3125	17	13	25	18	22
3/8-16	0.3750	31	23	44	33	39
7/16-14	0.4375	49	37	70	52	63
1/2-13	0.5000	75	57	105	80	96
9/16-12	0.5625	110	82	155	115	139
5/8-11	0.6250	150	115	220	160	192
3/4-10	0.7500	265	200	375	280	340
7/8-9	0.8750	395	295	605	455	549
1-8	1.000	590	445	910	680	823
1 1/8-7	1.1250	795	595	1290	965	1167
1 1/4-7	1.2500	1120	840	1815	1360	1646
1 3/8-6	1.3750	1470	1100	2380	1780	2158
1 1/2-6	1.500	1950	1460	3160	2370	2865

Torquing Information & Warnings

⚠ WARNING When using the torque data in the chart, the following rules should be observed:

- **Bolt manufacturer's** particular specifications should be consulted when provided.
- **Flat washers** of equal strength must be used.
- **All torque measurements** are given in foot-pounds. To convert to inch-pounds, multiply by 12.
- **Torque values** specified are for bolts with residual oils or no special lubricants* applied. If special lubricants of high stress ability, such as Never-Seez compound graphite and oil, molybdenum disulphite, colloidal copper or white lead are applied, multiply the torque values in the charts by the factor .90. The use of Loctite does not affect the torque values listed above.
- **Torque values** for socket-head capscrews are the same as for Grade 8 capscrews.
- **Do not use these values** if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only. Check tightness of fasteners periodically.
- **Sheer bolts** are designed to fail under predetermined loads. Always replace shear bolts with identical grade.
- **Fasteners** should be replaced with the same or higher grade. If higher grade fasteners are used, these should only be tightened to the strength of the original.
- **Tighten** plastic insert or crimped steel-type lock nuts to approximately 110 percent of the dry torque values shown in the chart on page 8, applied to the nut, not to the bolt head. Tighten toothed or serrated-type lock nuts to the full torque value.

NOTICE

**Lubricated means coated with a lubricant such as engine oil, or fasteners with phosphate and oil coatings. "Dry" means plain or zinc plated without lubrication. Tighten lubricated bolts to approximately 80% of dry bolts.*

Fittings

Flat Face O-Ring Seal - FFORX

HOSE FITTING ONLY

Face
Seal



FS



SIZE	THREAD SIZE	LB-FT TORQUE
-4	9/16-18 UNF	21
-5	5/8-18 UNF	25
-6	11/16-16 UN	40
-8	13/16-16 UN	46
-10	1-14 UNS	50
-12	1-3/16-12 UN	75
-16	1-7/16-12 UN	104
-20	1-11/16-12 UN	141
-24	2-12 UN	166
-32	2-1/2-12 UN	423

SAE 37° JIC

HOSE FITTING & FEMALE SWIVEL FITTINGS

JIC



JIC



SIZE	THREAD SIZE	LB-FT TORQUE
-2	5/16-24 UNF	7
-3	3/8-24UNF	9
-4	9/16-18 UNF	13
-5	5/8-18 UNF	16
-6	11/16-16 UN	20
-8	13/16-16 UN	41
-10	1-14 UNS	64
-12	1-3/16-12 UN	89
-16	1-7/16-12 UN	122
-20	1-11/16-12 UN	143
-24	2-12 UN	178
-32	2-1/2-12 UN	275

Fittings - Continued

O-Ring Boss

HYDRAULIC FITTING ONLY



-SIZE	THREAD SIZE	ORB	AORB
-4	7/16-20 UNF	15	23
-6	9/16-18 UNF	24	32
-8	3/4-16 UNF	40	55
-10	7/8-14 UNF	61	76
-12	1-1/16-12 UN	101	116
-16	1-5/16-12 UN	120	119
-20	1-5/8-12 UN	125	125
-24	1-7/8-12 UN	140	140
-32	2-1/2-12 UN	157	157

Face Seal Female Swivel Fittings

HYDRAULIC FITTING ONLY



-SIZE	THREAD SIZE	LB-FT TORQUE
-4	9/16-18 UNF	13
-6	11/16-16 UN	23
-8	13/16-16 UN	40
-10	1-14 UNS	61
-12	1-3/16-12 UN	86
-16	1-7/16-12 UN	119
-20	1-11/16-12 UN	125
-24	2-12 UN	140

Step 1: Set The Hooklift Onto The Truck Frame

- Visually inspect the truck and look for any potential issues. For example: Clearance problems, cross members extending too high, insufficient room in front of the hooklift for tarpers, exhaust manifolds, etc., or insufficient room in the rear to allow for bumper selection.

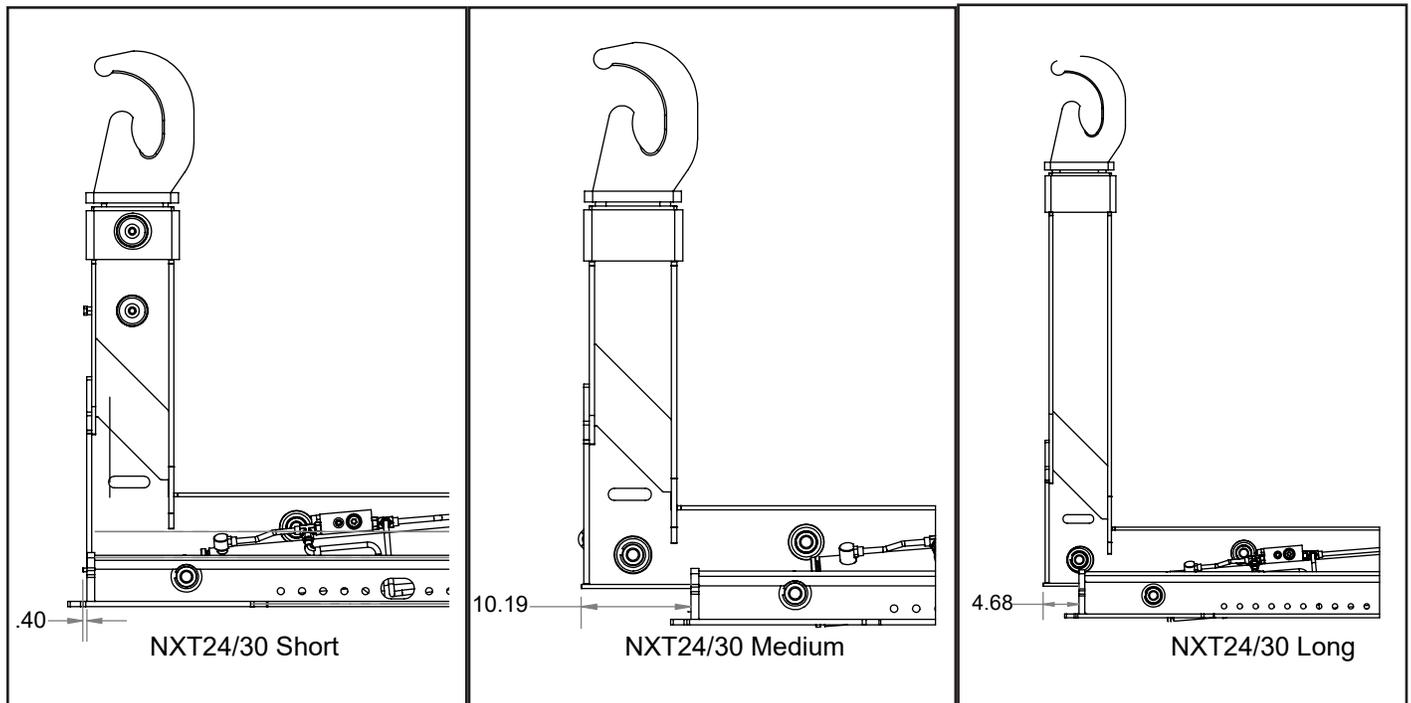
NOTICE

Stellar Industries recommends allowing 12" behind the start of clear truck frame for installation of a tarping system.

- Be sure to square the hooklift on the truck frame to allow for proper measurement. The front of the hooklift needs to be at least 2.50" behind the cab or any equipment mounted behind the cab.

NOTICE

On some hooklift models, the jib may extend beyond the front of the base.



Installation Notice

NOTICE

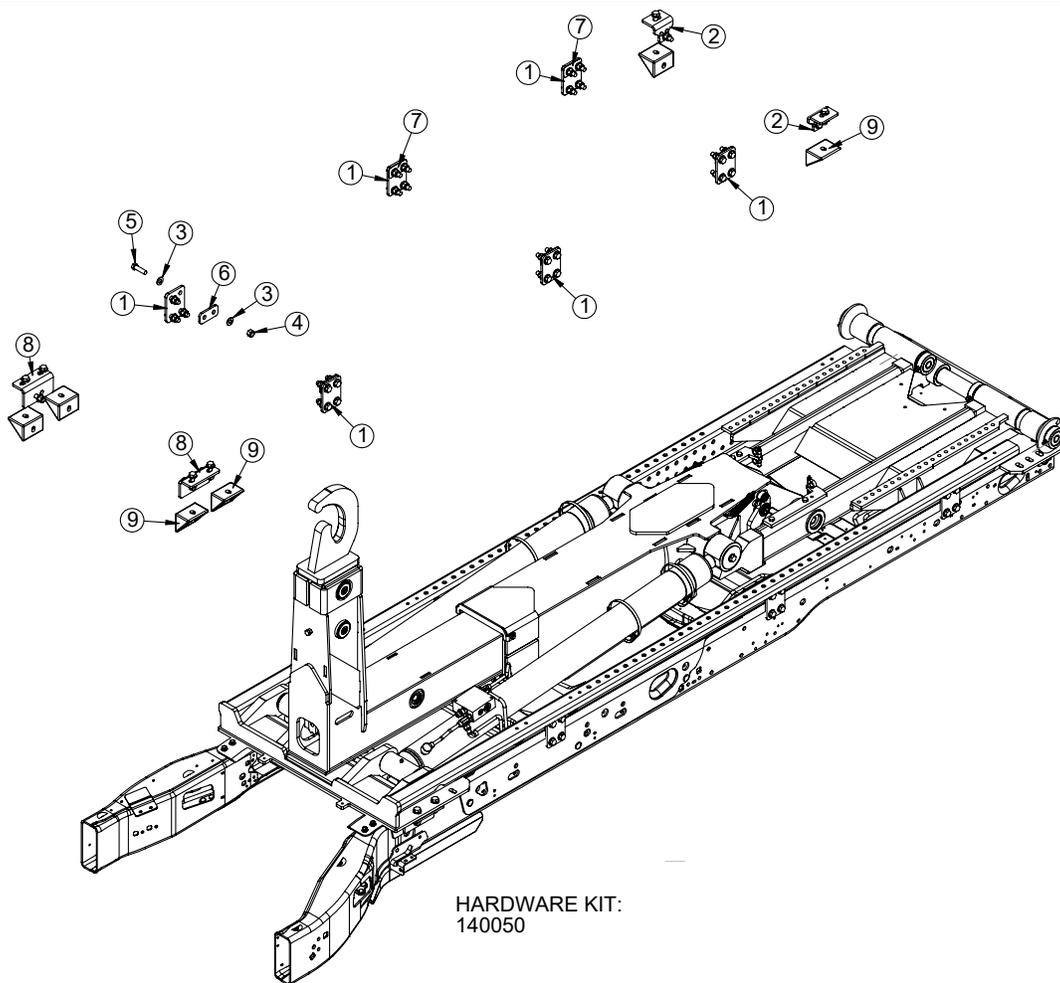
Every hooklift installation is unique. However, certain guidelines exist that apply to every model. Listed below is a general set of chronological steps that may be followed when installing a Stellar Hooklift. If any questions arise during the installation process, feel free to contact your local dealer or Stellar Customer Service at 800-321-3741.



www.stellarindustries.com/support

Step 2: NXT 24 & 30 Short & Med Mounting Kit

PN 140048



HARDWARE KIT:
140050

PN 140048

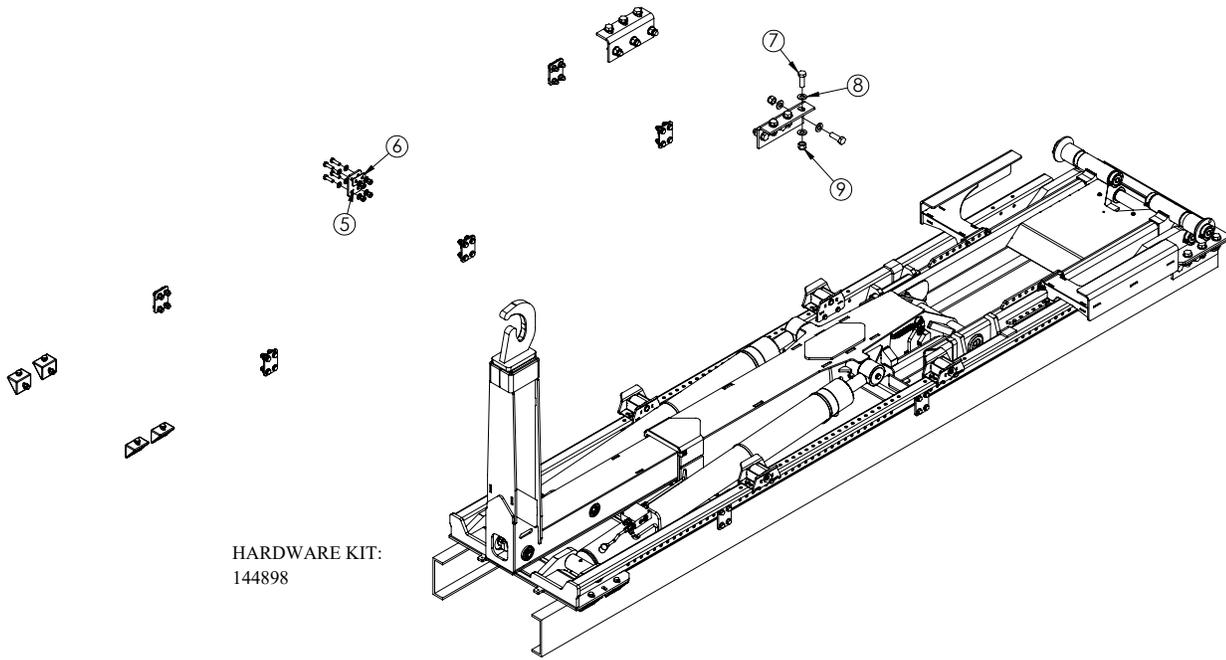
ITEM	PART	DESCRIPTION	QTY
1	114129	PLATE 0.38X5.50X4.00 HOLES	6
2	122791	ANGLE FORMED NXT18 BASE MNT	2
3	C5902	WASHER 0.63 SAE FLAT YELLOW GR8	68
4	24868	NUT 0.63-11 HHGR8 NYLOC	34
5	84053	CAP SCR 0.63-11X2.25 HHGR8	34
6	123768	PLATE 0.31X2.00X4.00 HOLES	2
7	123769	PLATE 14GAX2.00X4.00 HOLES	4
8	122710	ANGLE FORMED NXT18 BASE MNT FRONT	2
9	D0143	TIE DOWN CHANNEL	6

REV. A

ITEMS NOT SHOWN

PART	DESCRIPTION	QTY
123768	PLATE 0.31X2.00X4.00 HOLES	2
123769	PLATE 14GAX2.00X4.00 HOLES	2

NXT 24 & 30 Long Mounting Kit - PN 141735



PN 141735

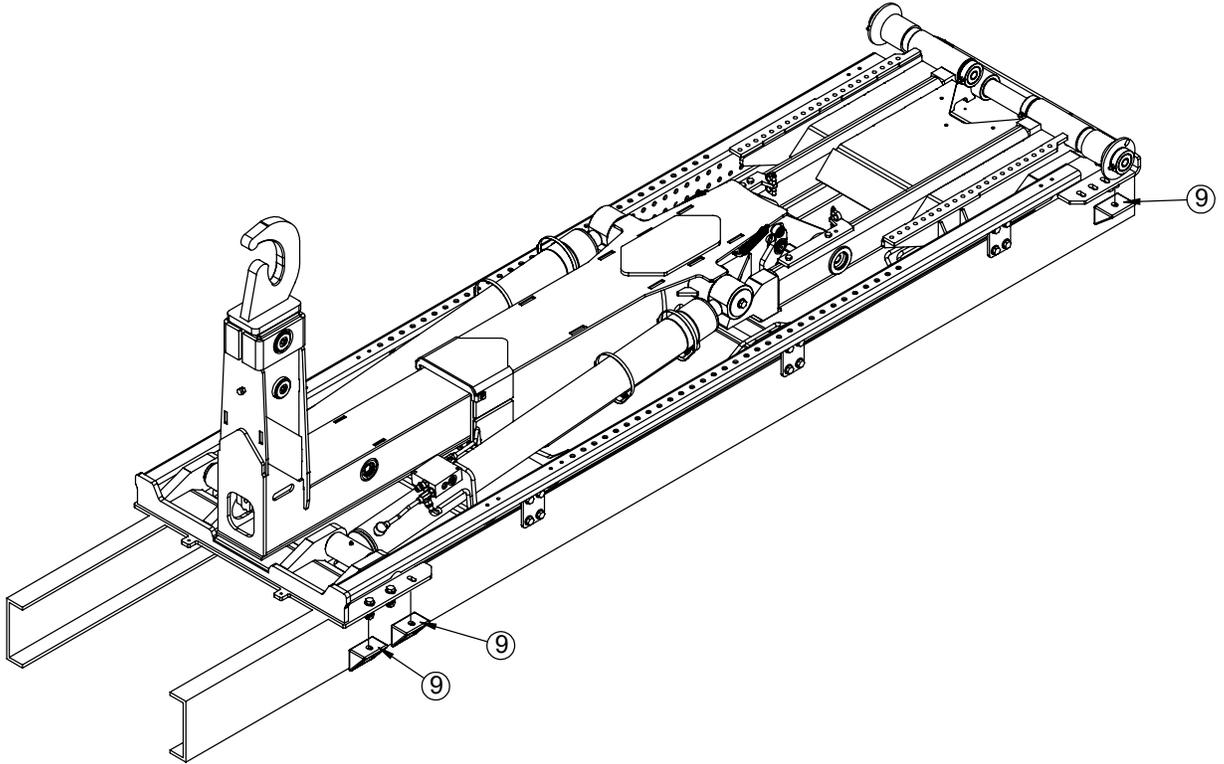
ITEM	PART	DESCRIPTION	QTY
1	D0143	TIE DOWN CHANNEL	4
2	C1025	CAP SCR 0.63-11X2.00 HHGR8	32
3	C5902	WASHER 0.63 SAE FLAT YELLOW GR8	64
4	24868	NUT 0.63-11 HHGR8 NYLOC	32
5	114129	PLATE 0.38X5.50X4.00 HOLES	6
6	123769	PLATE 14GAX2.00X4.00 HOLES	6
7	5199	CAP SCR 1.00-8X3.00 HHGR8	12
8	6538	WASHER 1.00 SAE FLAT YELLOW GR8	24
9	6294	NUT 1.00-8 HHGR8 NYLOC	12
10	135735	ANGLE FORMED 4.00X6.00X0.50X14.00 SLOTS	2

REV. INITIAL RELEASE

NXT24 & NXT30 Short & Med - Mounting

NOTE: FOR NXT24 & NXT30 SHORT AND MEDIUM LENGTHS

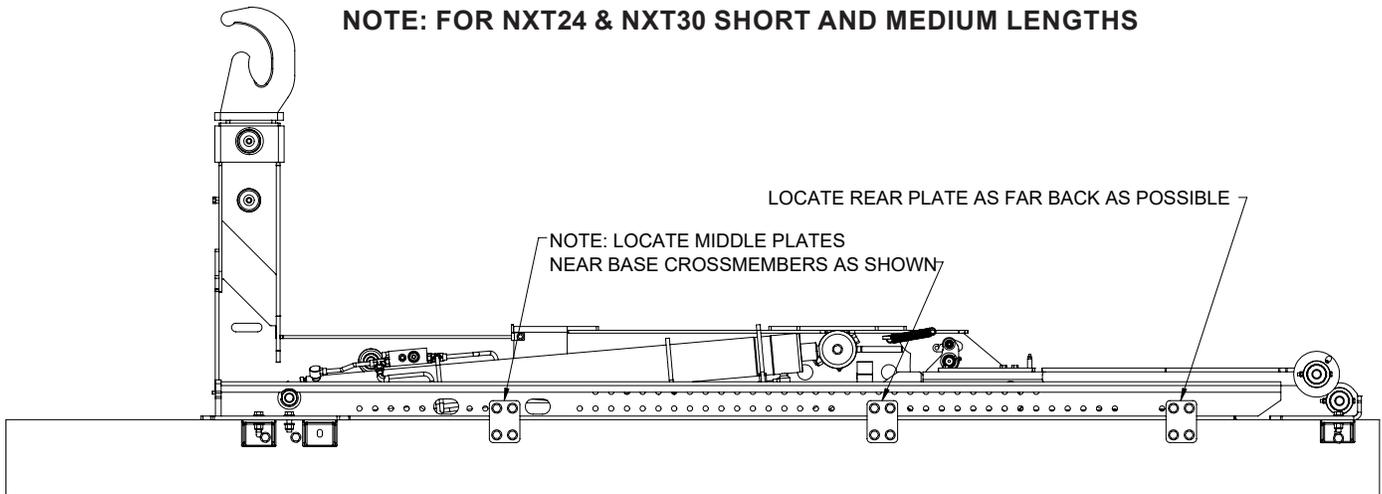
NOTE: BOLT FRONT AND REAR TIE-DOWN ANGLES TO THE UNDERSIDE OF EACH MOUNTING PLATE LOCATED ON THE OUTSIDE OF THE MAIN RAILS OF THE BASE (BOTH SIDES).



ITEM	PART	DESCRIPTION	QTY
9	D0143	TIE DOWN CHANNEL	6

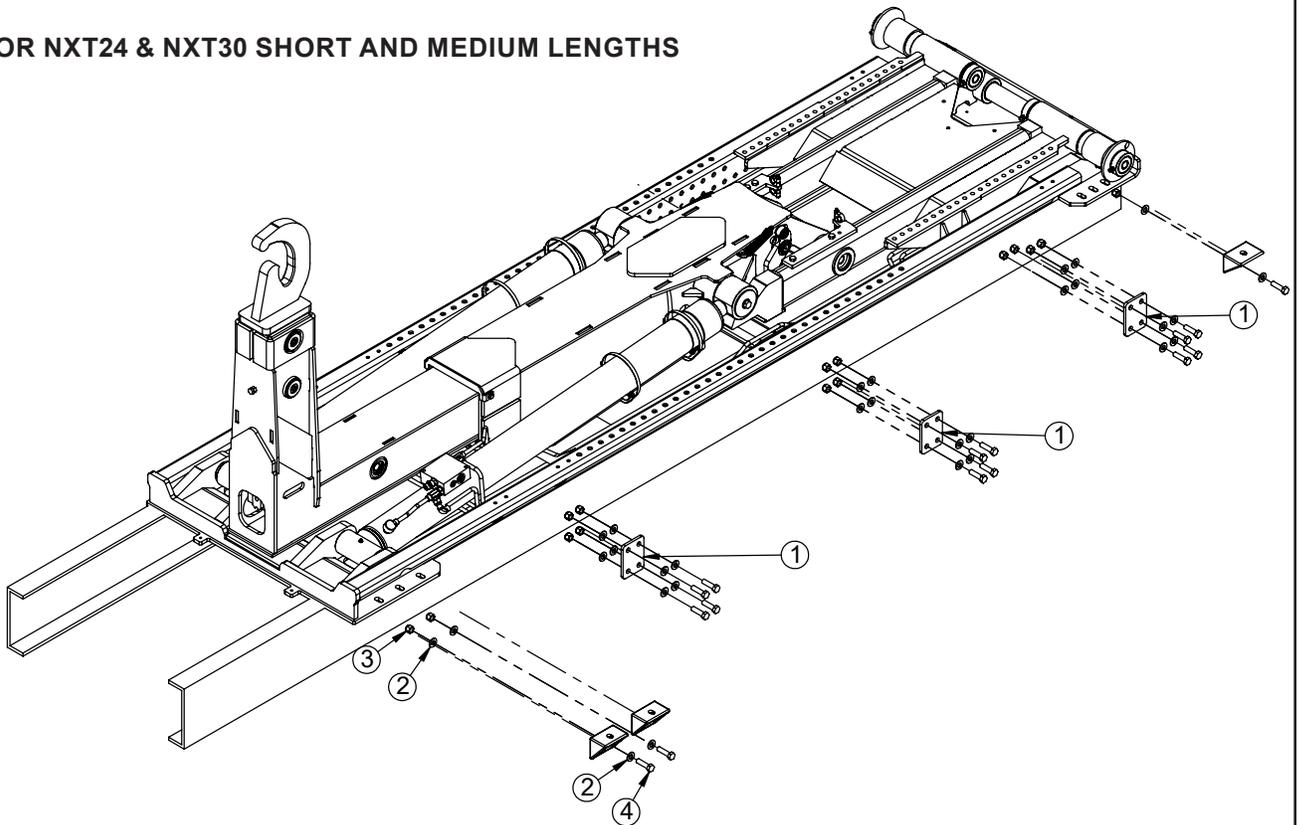
NXT24 & NXT30 Short & Med - Mounting - Continued

NOTE: FOR NXT24 & NXT30 SHORT AND MEDIUM LENGTHS



NOTE: USING THE BOTTOM HOLES IN THE TIE-DOWN ANGLES AND PLATES AS GUIDES, DRILL 11/16" MOUNTING HOLES THROUGH THE TRUCK FRAME AS SHOWN (BOTH SIDES).

NOTE: FOR NXT24 & NXT30 SHORT AND MEDIUM LENGTHS

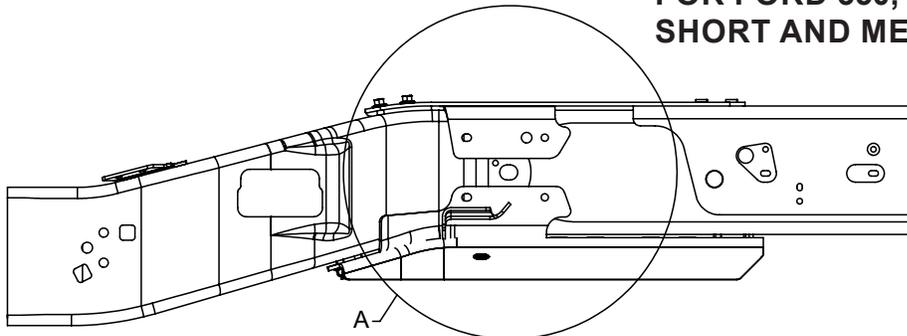


NOTE: BOLT EACH TIE-DOWN ANGLE AND PLATE TO THE TRUCK FRAME (BOTH SIDES).

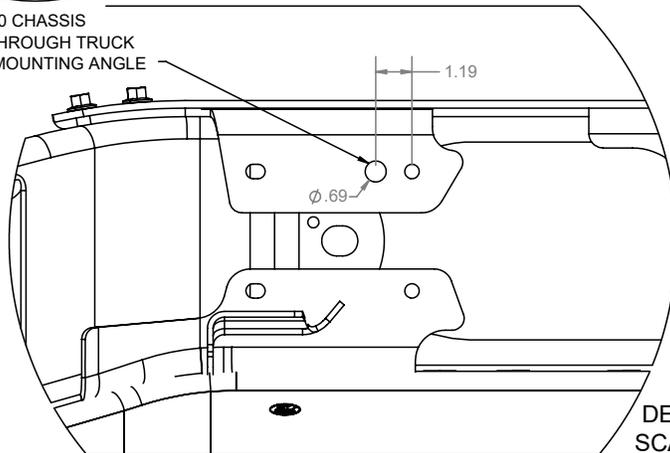
ITEM	PART	DESCRIPTION	QTY
1	114129	PLATE 0.38X5.50X4.00 HOLES	6
2	122791	ANGLE FORMED NXT18 BASE MNT	2
3	C5902	WASHER 0.63 SAE FLAT YELLOW GR8	68
4	24868	NUT 0.63-11 HHGR8 NYLOC	34

NXT24 & NXT30 Short & Med - Mounting

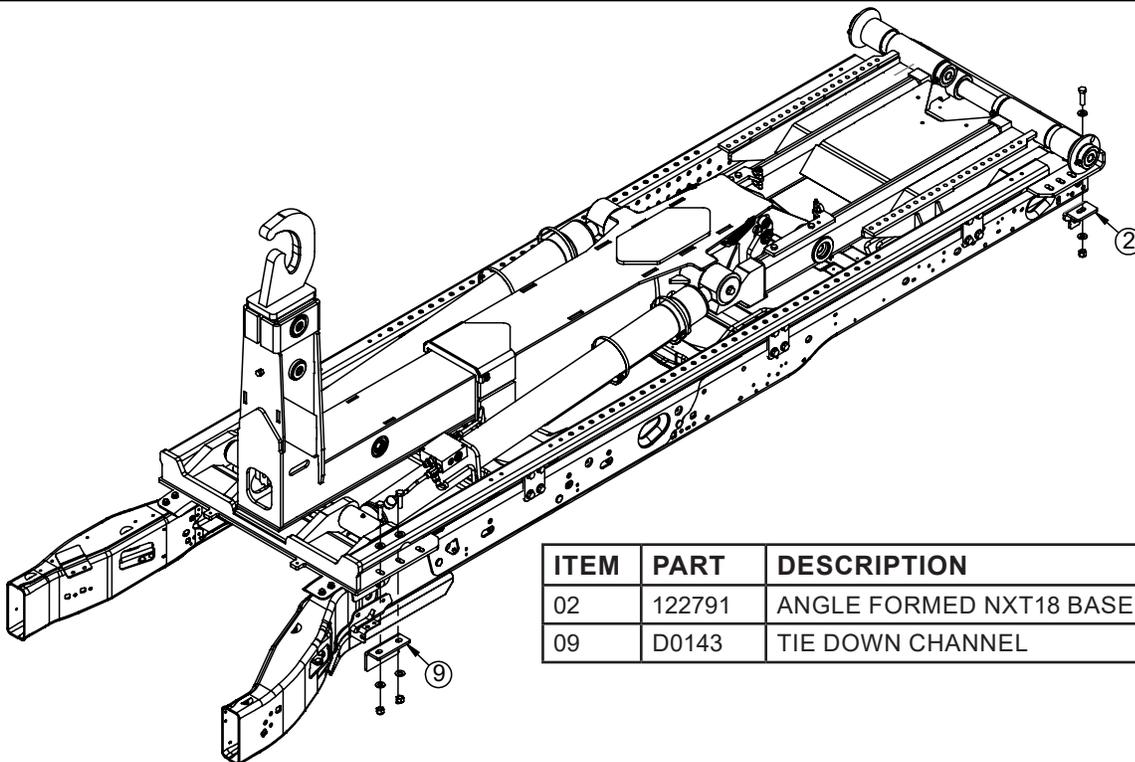
**FOR FORD 350, 450, 550, & 600
SHORT AND MEDIUM LENGTHS**



FOR F350, F450, F550 & F600 CHASSIS
NOTE: DRILL 11/16" HOLE THROUGH TRUCK
FRAME HERE FOR FRONT MOUNTING ANGLE



DETAIL A
SCALE 1 : 4

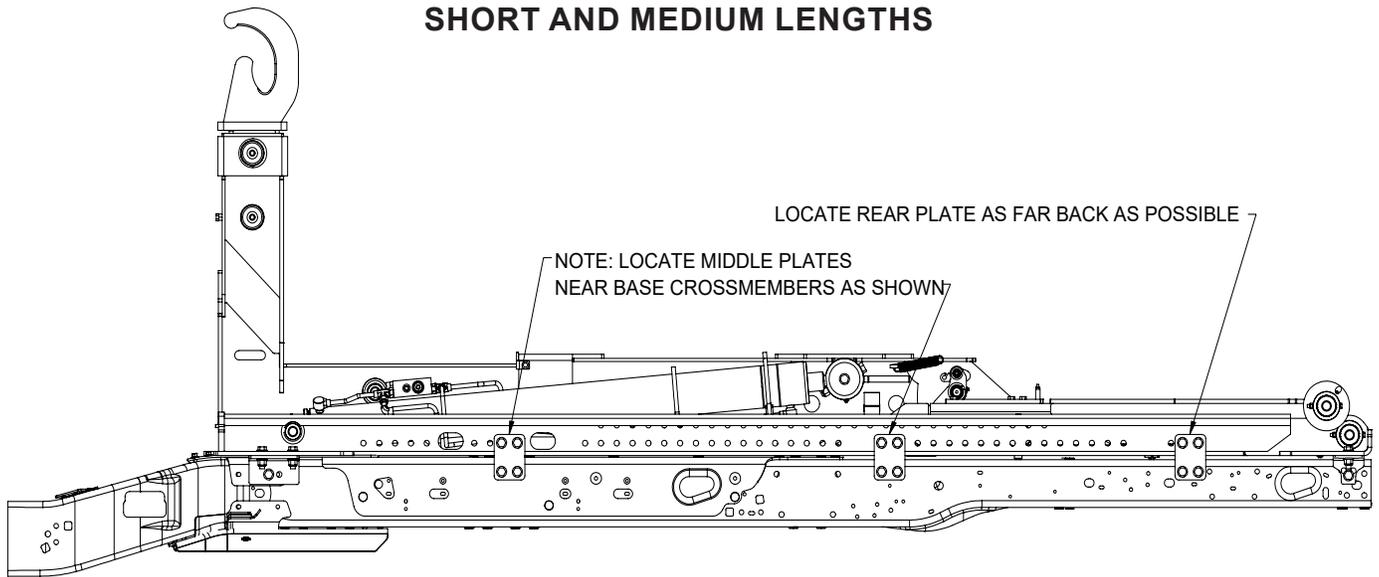


ITEM	PART	DESCRIPTION	QTY
02	122791	ANGLE FORMED NXT18 BASE MNT	2
09	D0143	TIE DOWN CHANNEL	6

NOTE: BOLT FRONT AND REAR TIE-DOWN ANGLES TO THE UNDERSIDE OF EACH MOUNTING PLATE LOCATED ON THE OUTSIDE OF THE MAIN RAILS OF THE BASE (BOTH SIDES).

NXT24 & NXT30 Short & Med - Mounting - Continued

FOR FORD 350, 450, 550, & 600 SHORT AND MEDIUM LENGTHS

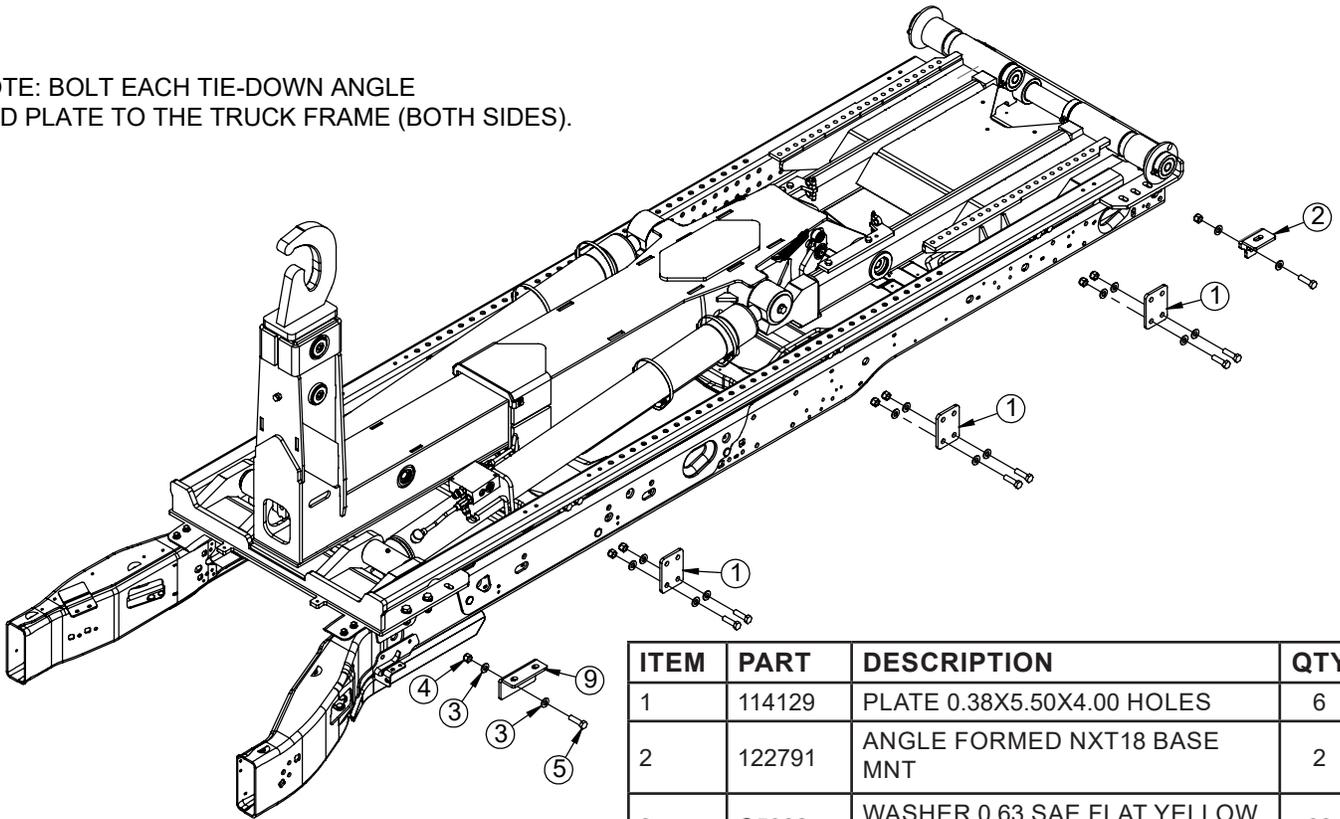


LOCATE REAR PLATE AS FAR BACK AS POSSIBLE

NOTE: LOCATE MIDDLE PLATES
NEAR BASE CROSSMEMBERS AS SHOWN

NOTE: USING THE BOTTOM HOLES IN THE TIE-DOWN ANGLES AND PLATES AS GUIDES,
DRILL 11/16" MOUNTING HOLES THROUGH THE TRUCK FRAME AS SHOWN (BOTH SIDES).

NOTE: BOLT EACH TIE-DOWN ANGLE
AND PLATE TO THE TRUCK FRAME (BOTH SIDES).

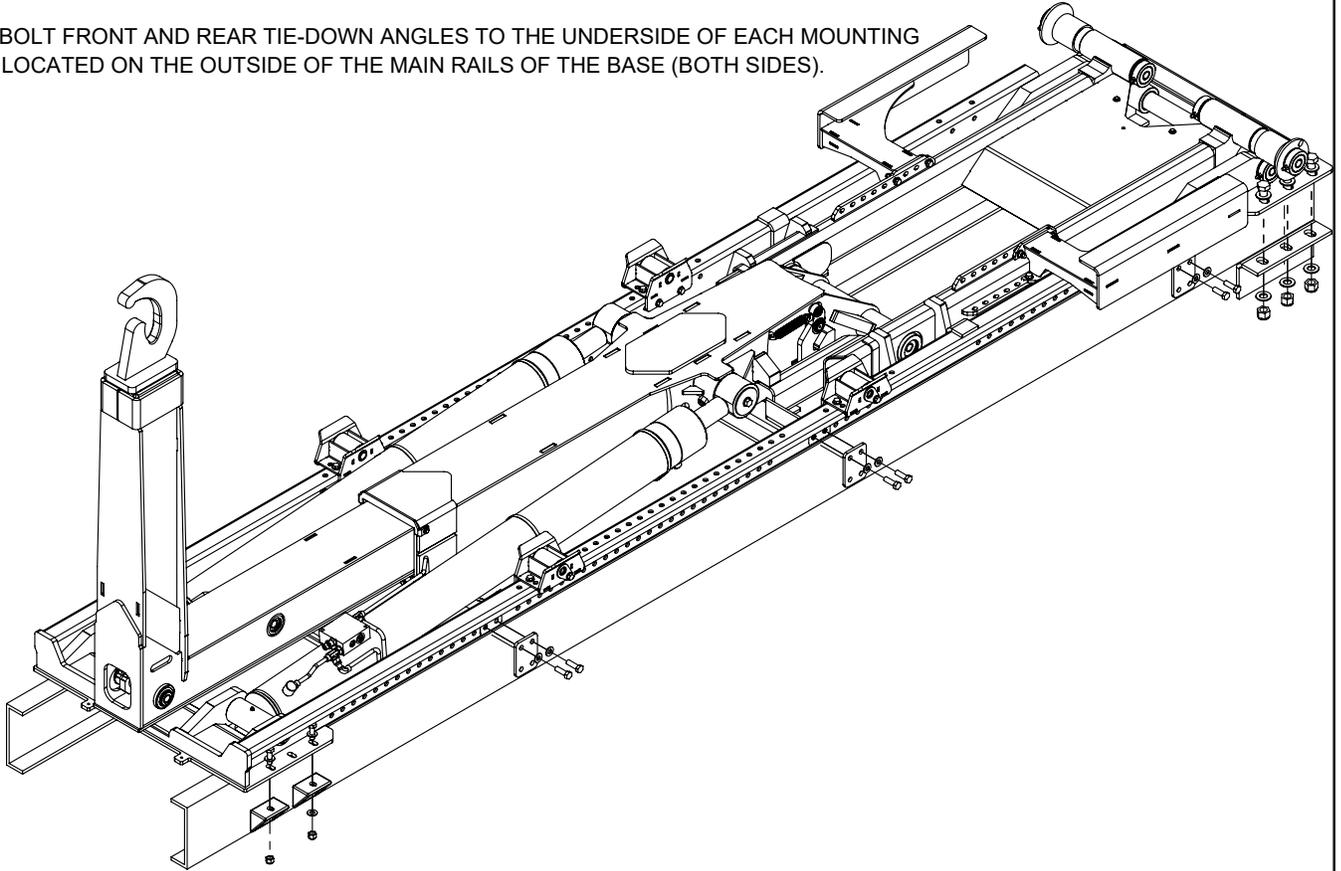


ITEM	PART	DESCRIPTION	QTY
1	114129	PLATE 0.38X5.50X4.00 HOLES	6
2	122791	ANGLE FORMED NXT18 BASE MNT	2
3	C5902	WASHER 0.63 SAE FLAT YELLOW GR8	68
4	24868	NUT 0.63-11 HHGR8 NYLOC	34
5	84053	CAP SCR 0.63-11X2.25 HHGR8	34
9	D0143	TIE DOWN CHANNEL	6

NXT24 & NXT30 Long - Mounting -Continued

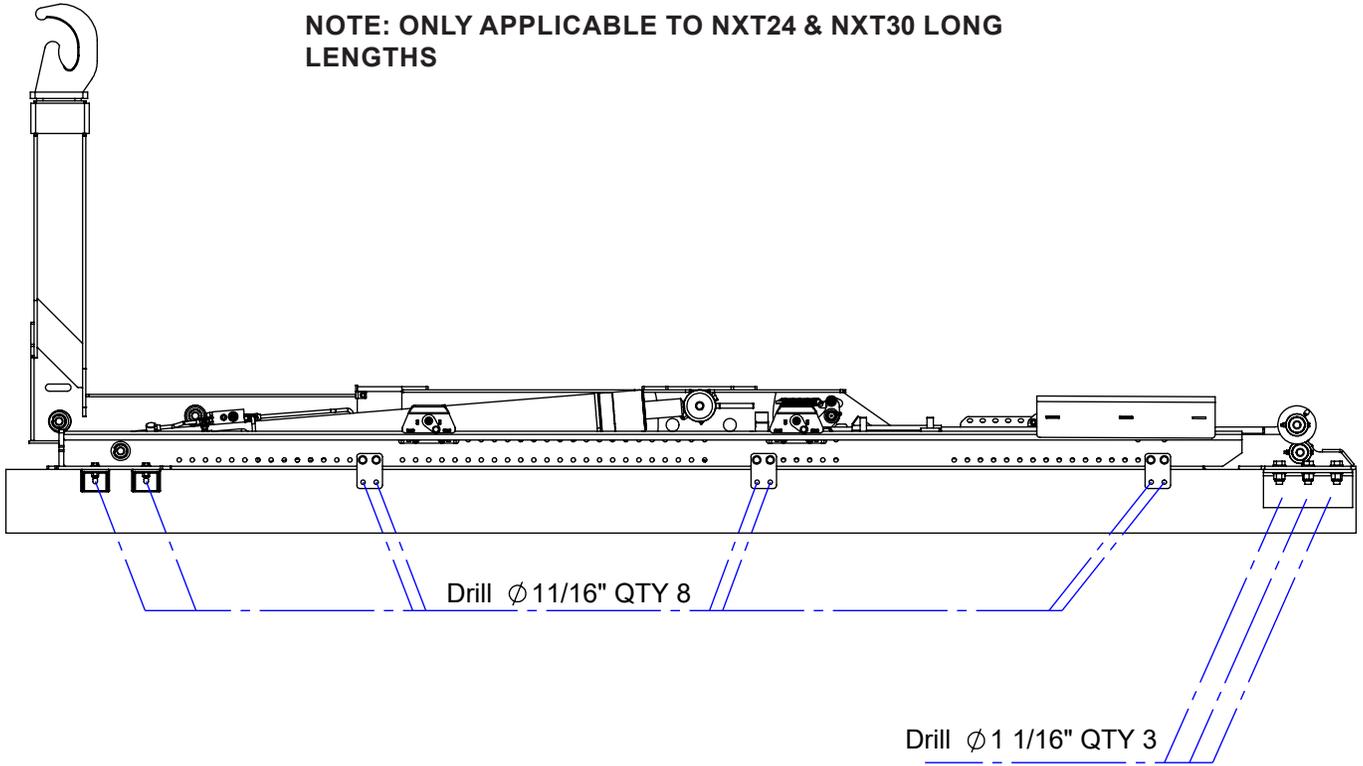
NOTE: ONLY APPLICABLE FOR NXT24 AND NXT30 LONG LENGTHS

NOTE: BOLT FRONT AND REAR TIE-DOWN ANGLES TO THE UNDERSIDE OF EACH MOUNTING PLATE LOCATED ON THE OUTSIDE OF THE MAIN RAILS OF THE BASE (BOTH SIDES).



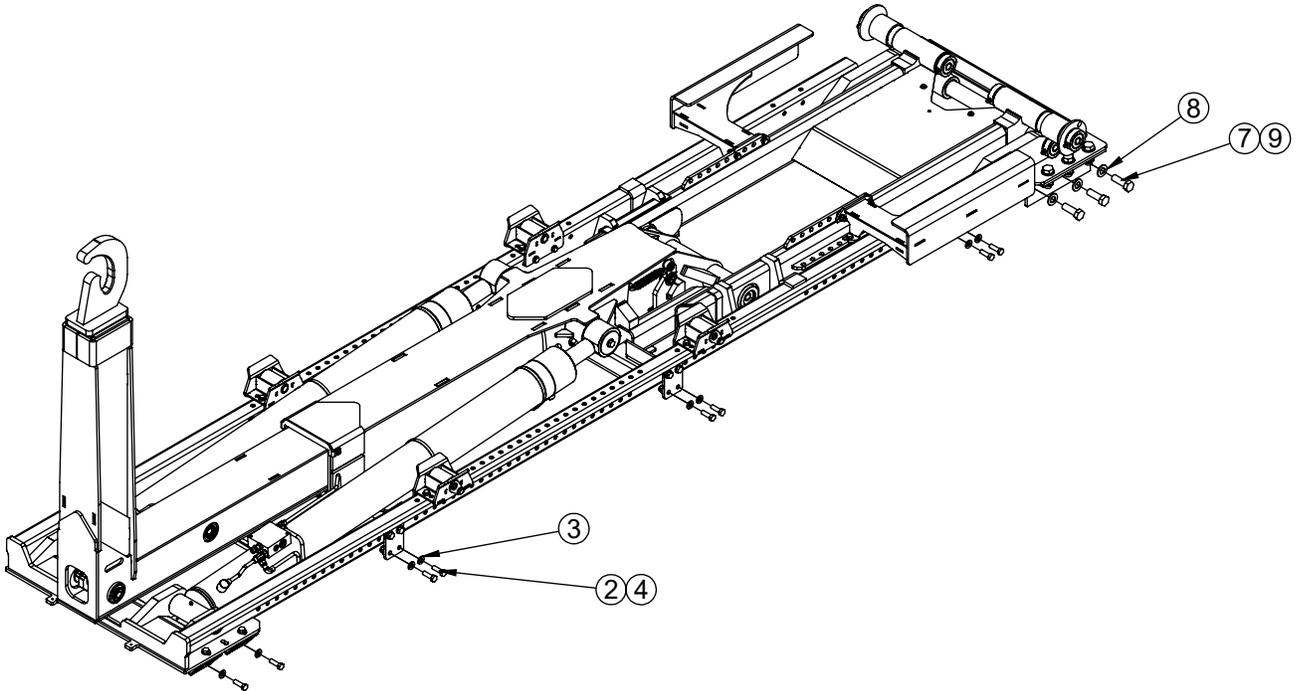
NXT24 & NXT30 Long - Mounting - Continued

NOTE: ONLY APPLICABLE TO NXT24 & NXT30 LONG LENGTHS



NXT24 & NXT30 Long - Mounting -Continued

NOTE: ONLY APPLICABLE TO NXT24 & NXT30 LONG LENGTHS



NOTE: BOLT EACH TIE-DOWN ANGLE AND PLATE TO THE TRUCK FRAME (BOTH SIDES).

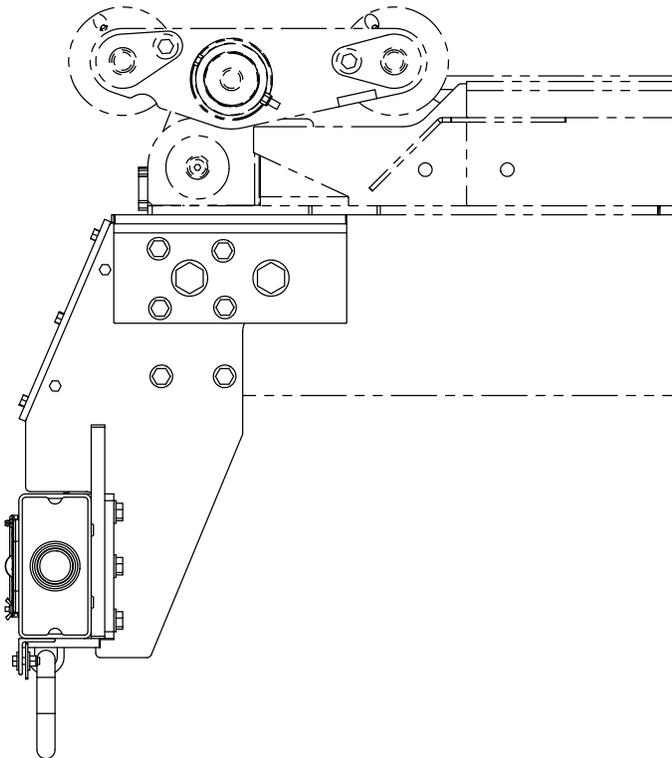
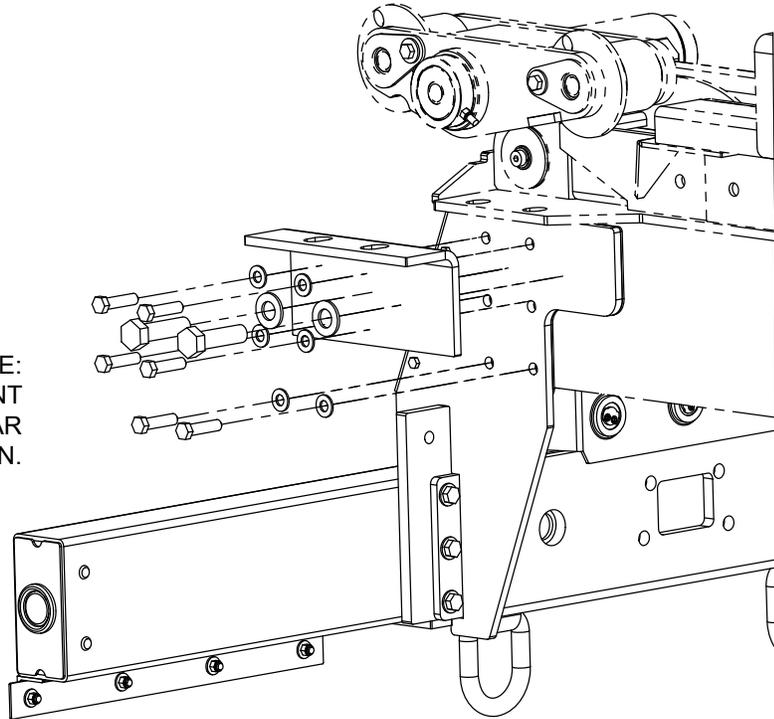
PN 141735

ITEM	PART	DESCRIPTION	QTY
2	C1025	CAP SCR 0.63-11 X2.00 HHGR8	32
3	C5902	WASHER 0.63 SAE FLAT YELLOW: PR8	64
4	24868	NUT 0.63-11 HHGR8 NYLOC	32
7	5199	CAP SCR L .00-8X3.00 HHGR8	12
8	6538	WASHER 1.00 SAE FLAT YELLOW, :.GR8	24
9	6294	NUT 1.00-8 HHGR8 NYLOC	12

REV. INITIAL RELEASE

Step 3: Install Bumper

NOTE:
REAR MOUNTING ANGLE WILL MOUNT
ON OUTSIDE OF BUMPER SHEAR
PLATES AS SHOWN.

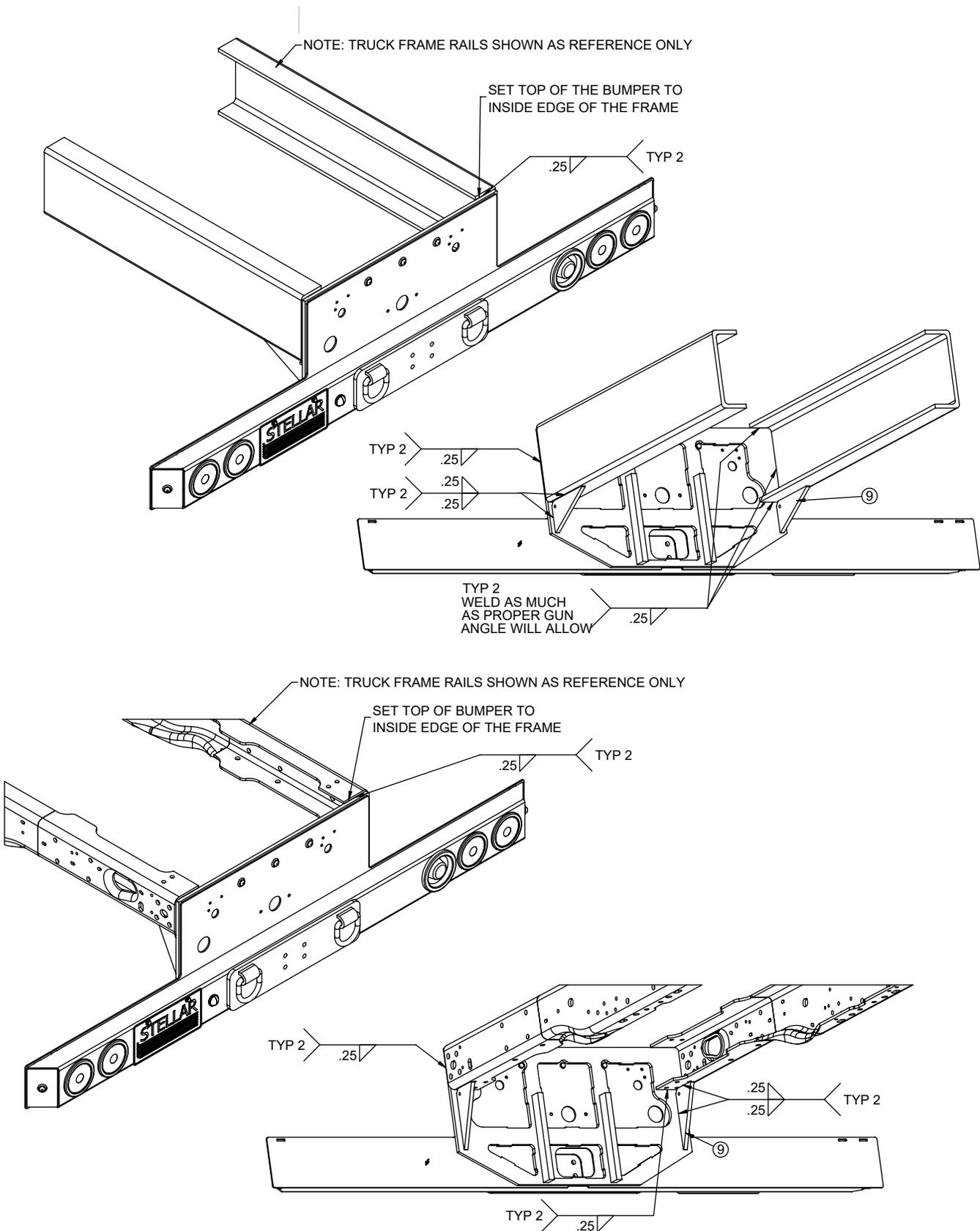


NOTE:
ALL HARDWARE FOR BOTH MOUNTING KIT
AND BUMPER SHEAR PLATES MUST BE USED
WITH BUMPER INSTALLATION AS SHOWN.

NOTICE

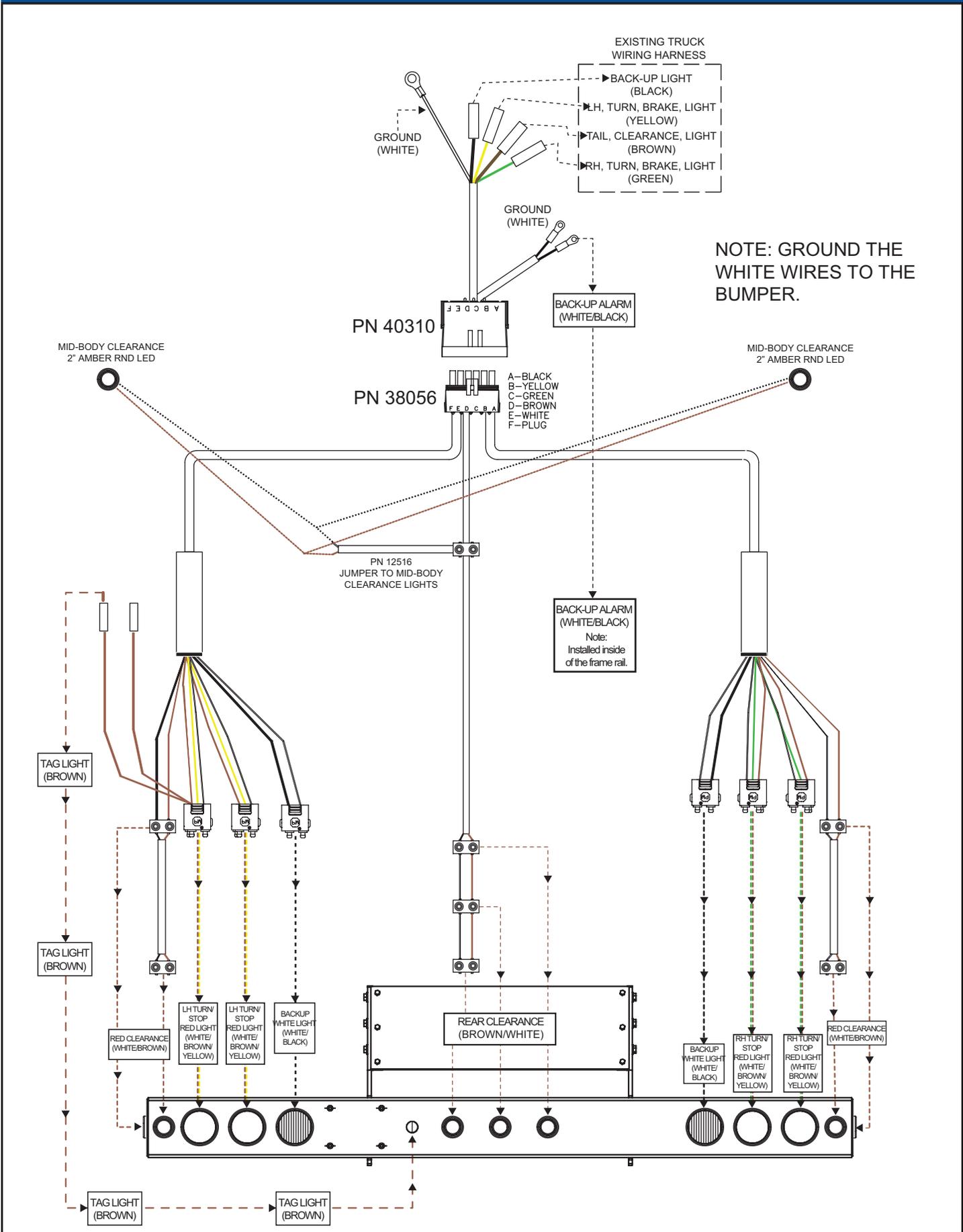
SEE NHTSA (NATIONAL HIGHWAY TRUCK SAFETY ADMINISTRATION) REGULATIONS FOR ACCEPTABLE PLACEMENT. THIS BUMPER WILL MOUNT FLUSH WITH THE REAR OF THE HOOKLIFT.

Step 3A: Install Bumper

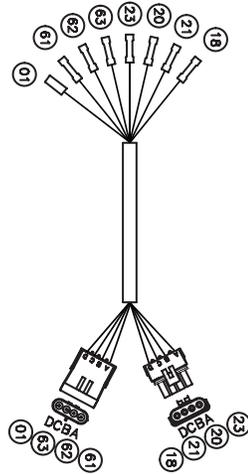


NOTES: See NHTSA (National Highway Truck Safety Administration) Regulations for acceptable placement. This bumper will mount flush with the rear of the hooklift.

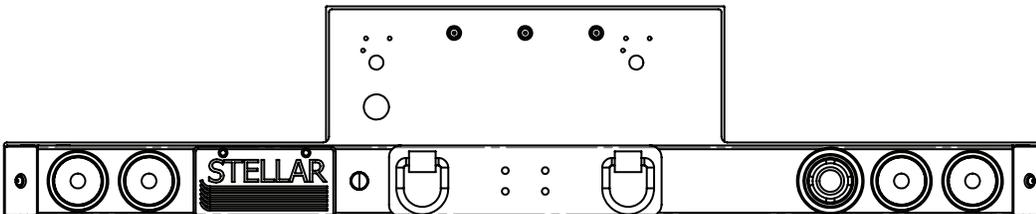
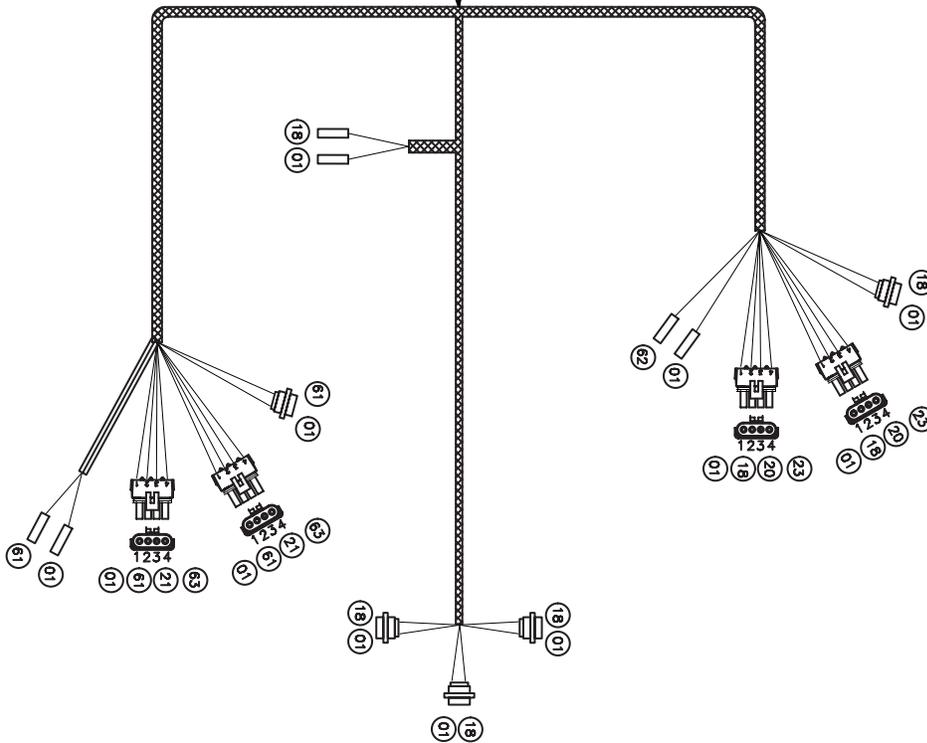
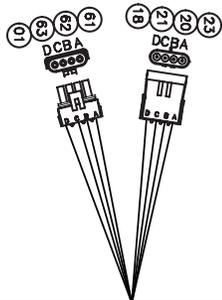
Step 4: Bumper Electrical Schematic



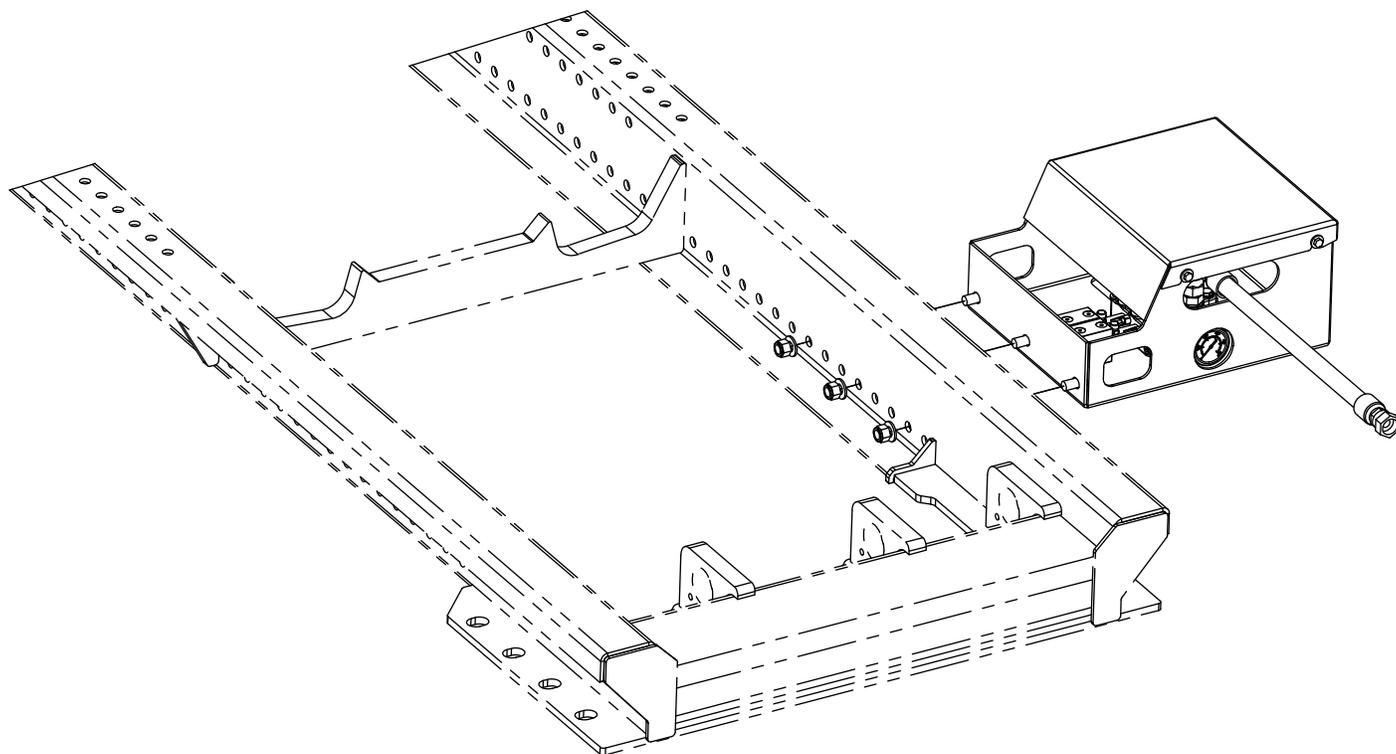
Step 4A: Bumper Electrical Schematic



CIRCUIT NO.	CIRCUIT
01	GROUND
15	RH MARKER / TAIL
20	RH TURN SIGNAL
21	LH TURN SIGNAL
23	RH BACKUP LIGHT
61	LH MARKER / TAIL
62	BACKUP ALARM
63	LH BACKUP LIGHT



Step 5: Installation - Valve Bank Assembly - PN 129905

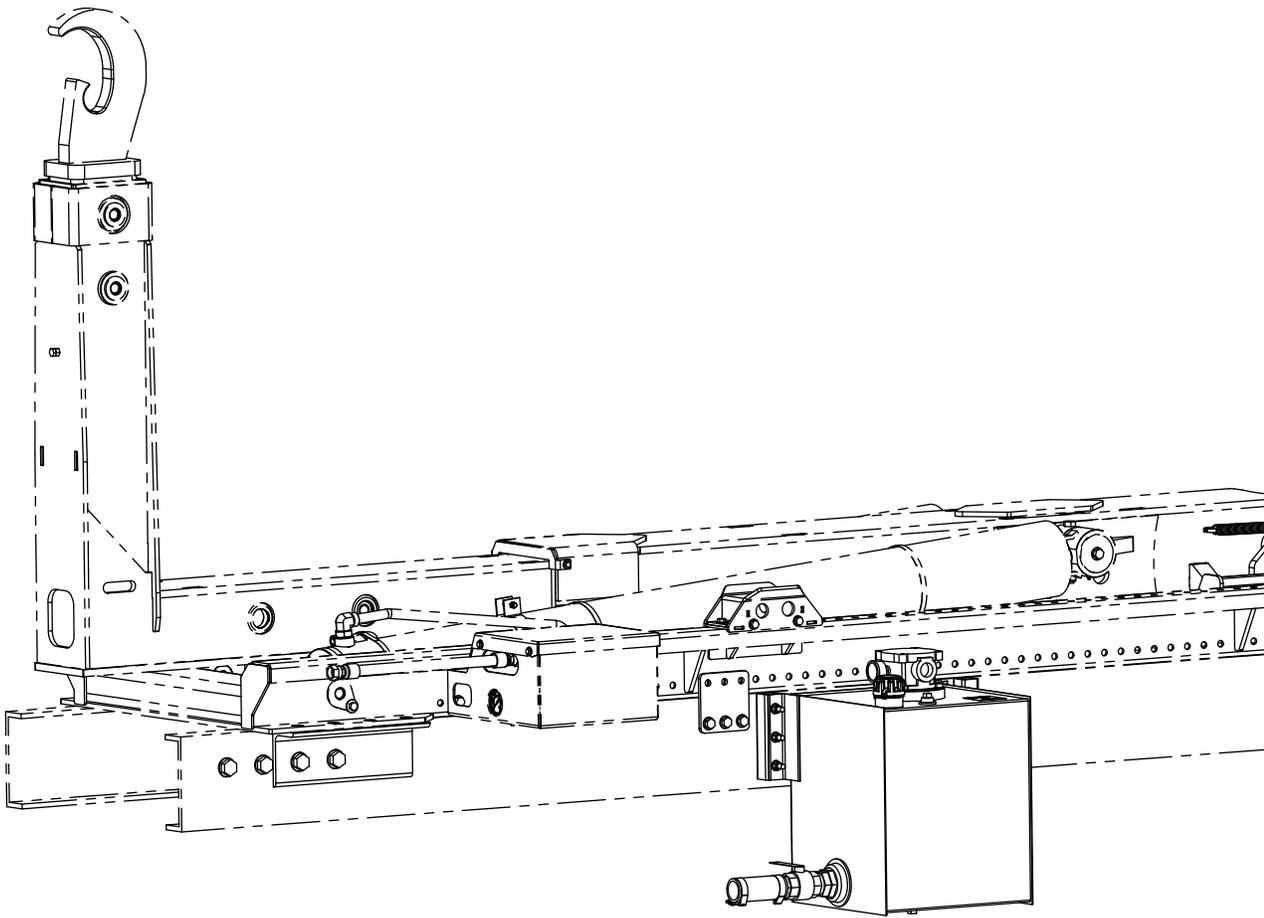


NOTES:

BOLT VALVE BANK WELDMENT TO BASE Z-RAIL WITH PROVIDED HARDWARE THROUGH PRE-DRILLED HOLES.

CAN BE MOUNTED ON CURB SIDE OR STREET SIDE.

Installation - Hydraulic Tank Assembly - PN 130144



NOTES:

THE TOP OF RESERVOIR SHOULD NOT BE ABOVE THE TRUCK FRAME.

BEFORE DRILLING AND BOLTING TO FRAME, CONFIRM ADEQUATE ROOM FOR HYDRAULIC HOSE ROUTING.

HOLES ARE PRE-DRILLED IN HYDRAULIC TANK BRACKETS, MARK LOCATIONS, DRILL QTY 6, 5/8 HOLES THROUGH FRAME.

BOLT TANK TO TRUCK FRAME USING PROVIDED HARDWARE.

CAN BE MOUNTED ON CURB SIDE OR STREET SIDE

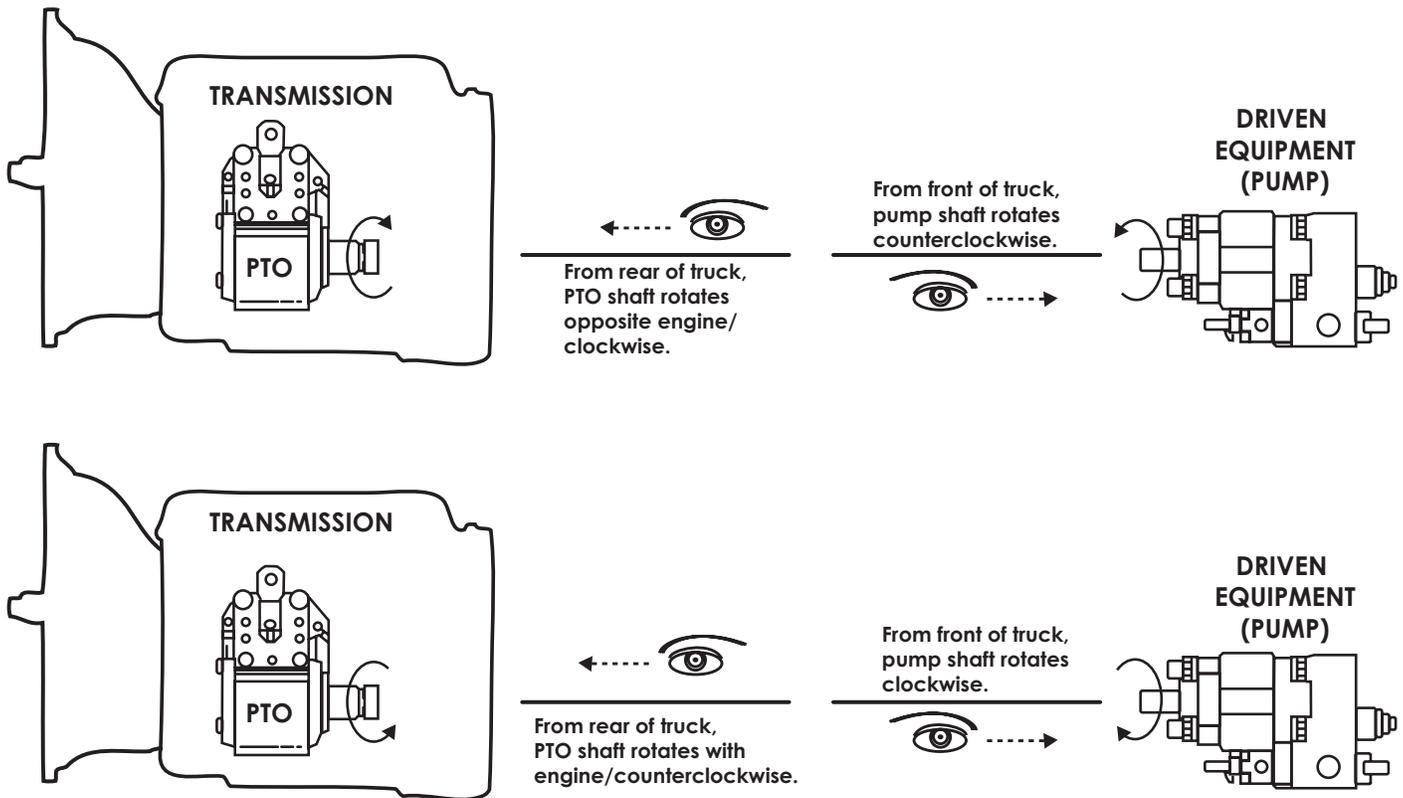
Step 6: Install PTO and Pump

- Before installing the pump to the PTO, always check the direction of the PTO output shaft to determine which direction the hydraulic pump needs to rotate to operate the equipment. If this is not determined prior to installing the hydraulic pump, the hydraulic pump may rotate in the incorrect direction and damage the front shaft seal.

PTO Direction of Rotation Tip:

Viewed by standing at the rear of the vehicle, looking forward at the PTO shaft, with the PTO shaft pointing toward the rear of the vehicle:

P.T.O.	Driven Equipment
Rotates Opposite Engine (looks "clockwise")	Driven equipment must rotate counterclockwise (also called left-hand rotation, "A" for anti-clockwise or C.C.W. for counter clockwise).
Rotates With Engine (looks "counterclockwise")	Driven equipment must rotate clockwise (also called right-hand rotation or "C" for clockwise).



NOTICE

Remember that the PTO is specified by looking from the rear of the truck to the front of the truck. The driven equipment (pump) is specified by looking from the front of the truck.

Use the brand specific PTO / Pump installation instructions. If the directions are not quite clear, contact Stellar® Customer Service or consult with a hydraulic specialty house or company prior to installation.



www.stellarindustries.com/support

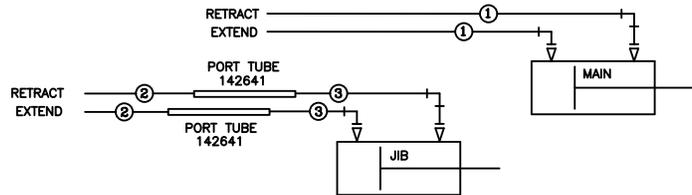
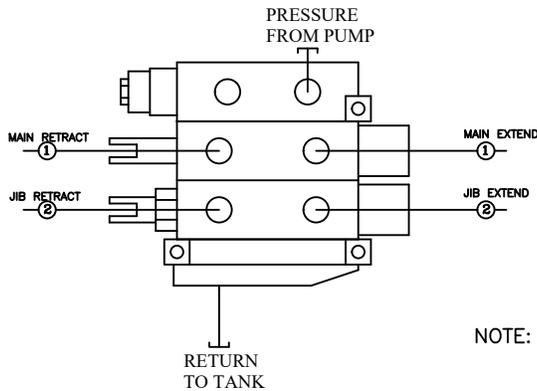
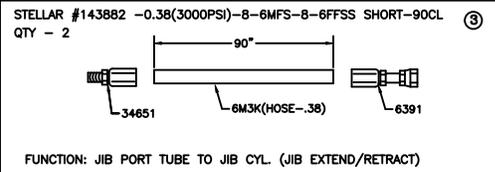
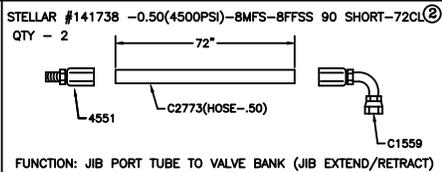
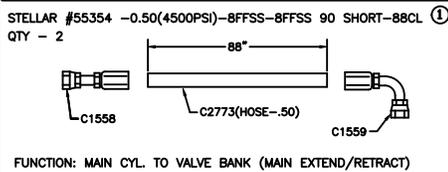
Step 7: Route Hydraulic Hoses

1. Route hose line from the reservoir to the pump (See hose kit drawing for details).
2. Route hose line from the pump to the valve bank (See hose kit drawing for details).
3. Route hose line from the valve bank to the reservoir (See hose kit drawing for details).
4. Route hose line from the valve bank and the hooklift (See hose kit drawing for details).

Notes on hose line routing:

- Protect these lines with hose wrap when necessary.
- Keep these lines away from sharp edges.
- Keep these lines away from the exhaust or other temperature extreme items.
- Keep these lines away from the driveshaft or other moving items.

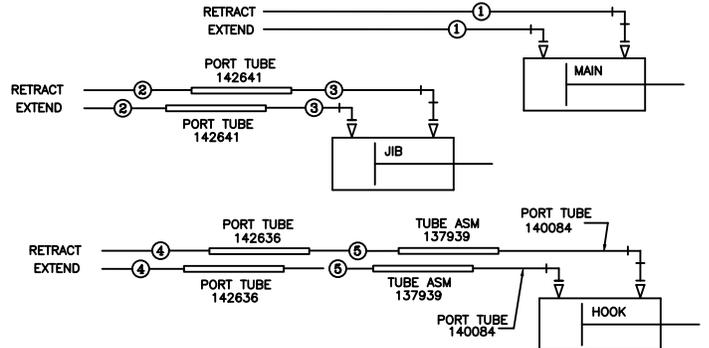
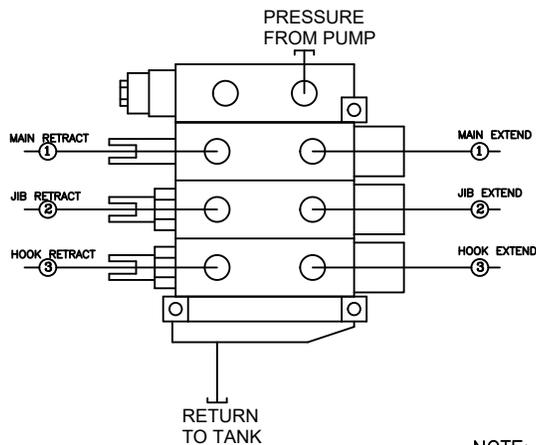
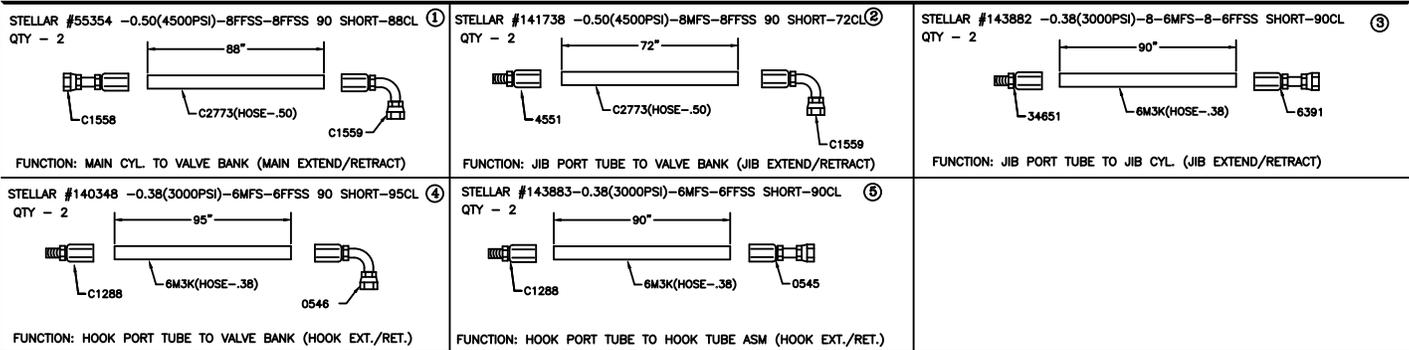
Hose Kit - PN 142879



NOTE: SYSTEM PRESSURE IS 4500 P.S.I.

PN 142879			
ITEM	PART	DESCRIPTION	QTY
01	55354	HOSF' 0 50(4500PST) 8F'F'SS 8F'F'SS 90 SHOR'L' 88CT	2
02	141738	HOSE 0.50(4500PSL)-8MFS-8FFSS 90 SHORT-72CL	2
03	143882	HOSE 0.38(3000PSL)-8-6MFS-8-6FFSS SHORT-90CL	2
REV. A			

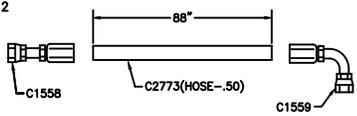
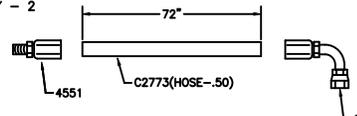
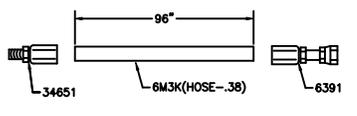
Hose Kit - PN 142878

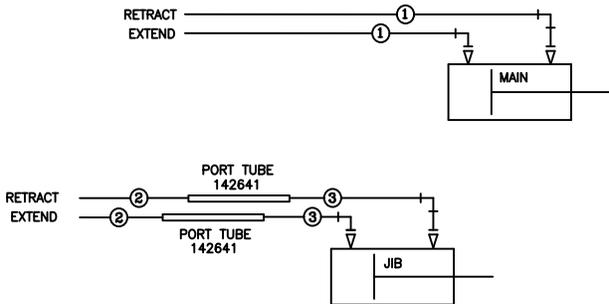
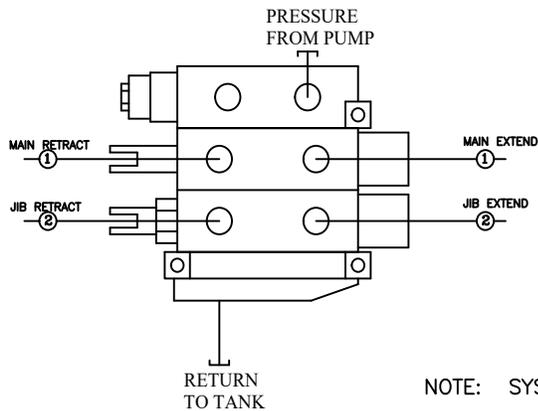


NOTE: SYSTEM PRESSURE IS 4500 P.S.I.

PN 142878			
ITEM	PART	DESCRIPTION	QTY
01	55354	HOSE '0 50(4500PST) 8F'F'SS 8F'F'SS 90 SHOR'L' 88CT	2
02	141738	HOSE 0.50(4500PSI)-8MFS-8FFSS 90 SHORT-72CL	2
03	143882	HOSE 0.38(3000PSI)-8-6MFS-8-6FFSS SHORT-90CL	2
04	140348	HOSE 0.38(3000PSI)-6MFS-6FFSS 90 SHORT-95CL	2
05	143883	HOSE 0.38(3000PSI)-6MFS-6FFSS SHORT-90CL	2
REV. A			

Hose Kit - PN 142880

STELLAR #55354 -0.50(4500PSI)-8FFSS-8FFSS 90 SHORT-88CL ① QTY - 2  <p style="font-size: small;">FUNCTION: MAIN CYL. TO VALVE BANK (MAIN EXTEND/RETRACT)</p>	STELLAR #141738 -0.50(4500PSI)-8MFS-8FFSS 90 SHORT-72CL ② QTY - 2  <p style="font-size: small;">FUNCTION: JIB PORT TUBE TO VALVE BANK (JIB EXTEND/RETRACT)</p>	STELLAR #143383 -0.38(3000PSI)-8-6MFS-8-6FFSS SHORT-96CL ③ QTY - 2  <p style="font-size: small;">FUNCTION: JIB PORT TUBE TO JIB CYL. (JIB EXTEND/RETRACT)</p>
--	---	--



NOTE: SYSTEM PRESSURE IS 4500 P.S.I.

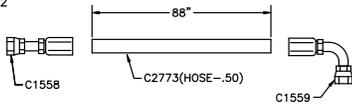
PN 142880			
ITEM	PART	DESCRIPTION	QTY
01	55354	HOSE 0.50(4500PSI)-8FFSS-8FFSS 90 SHORT-88CL	2
02	141738	HOSE 0.50(4500PSI)-8MFS-8FFSS 90 SHORT-72CL	2
03	143383	HOSE 0.38(3000PSI)-8-6MFS-8-6FFSS SHORT-96CL	2
REV. A			

Hose Kit - PN 140346

PN 140346			
ITEM	PART	DESCRIPTION	QTY
01	55354	HOSE' 0 50(4500PST) 8F'F'SS 8F'F'SS 90 SHOR'L' 88CT	2
02	141738	HOSE 0.50(4500PSI)-8MFS-8FFSS 90 SHORT-72CL	2
03	143383	HOSE 0.38(3000PSI)-8-6MFS-8-6FFSS SHORT-96CL	2
04	140348	HOSE 0.38(3000PSI)-6MFS-6FFSS 90 SHORT-95CL	2
05	140349	HOSE 0.38(3000PSI)-6MFS-6FFSS-96CL	2
REV. B			

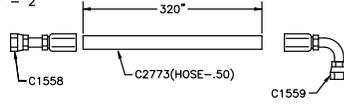
Hose Kit - PN 142881

STELLAR #55354 -0.50(4500PSI)-8FFSS-8FFSS 90 SHORT-88CL ①
QTY - 2

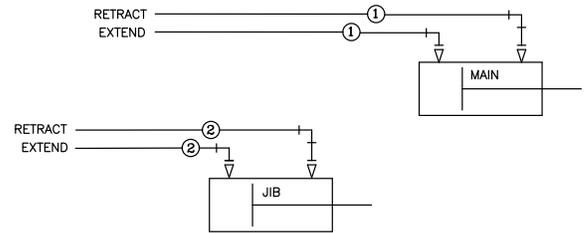
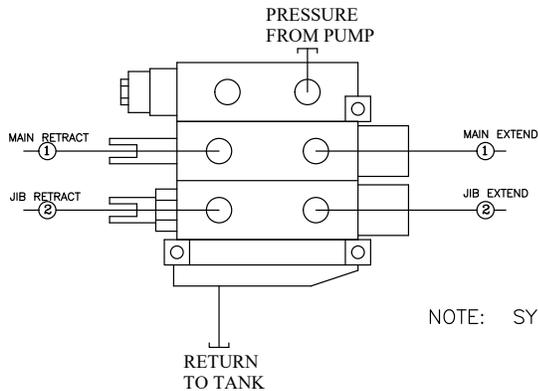


FUNCTION: MAIN CYL. TO VALVE BANK (MAIN EXTEND/RETRACT)

STELLAR #141792 -0.50(4500PSI)-8FFSS-8FFSS SHORT-320CL ②
QTY - 2



FUNCTION: JIB CYL. TO VALVE BANK (JIB EXTEND/RETRACT)



NOTE: SYSTEM PRESSURE IS 4500 P.S.I.

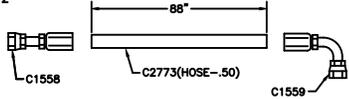
PN 142881

ITEM	PART	DESCRIPTION	QTY
01	55354	HOSE 0.50(4500PSI)-8FFSS-8FFSS 90 SHORT-88CL	2
02	141792	HOSE 0.50(4500PSL)-8FFSS-8FFSS 90 SHORT-88CL	2

REV. A

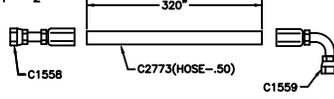
Hose Kit - PN 141791

STELLAR #55354 -0.50(4500PSI)-8FFSS-8FFSS 90 SHORT-88CL ①
QTY - 2



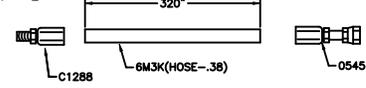
FUNCTION: MAIN CYL. TO VALVE BANK (MAIN EXTEND/RETRACT)

STELLAR #141792 -0.50(4500PSI)-8FFSS-8FFSS SHORT-320CL ②
QTY - 2

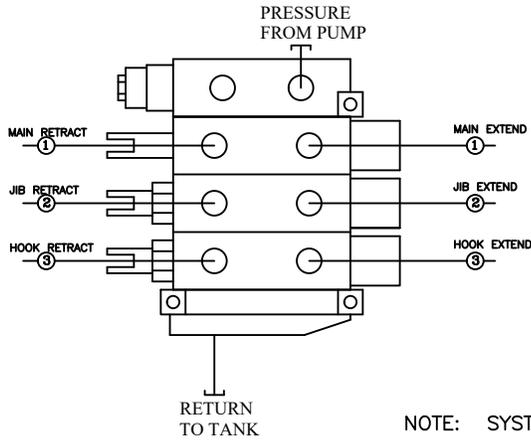


FUNCTION: JIB CYL. TO VALVE BANK (JIB EXTEND/RETRACT)

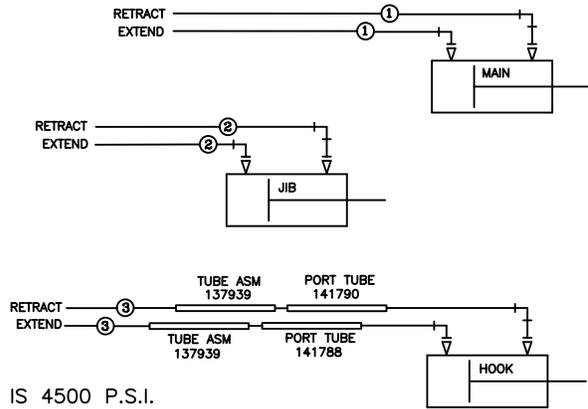
STELLAR #141793 -0.38(3000PSI)-6MFS-6FFSS SHORT-320CL ③
QTY - 2



FUNCTION: HOOK TUBE ASM TO VALVE BANK (HOOK EXT./RET.)



NOTE: SYSTEM PRESSURE IS 4500 P.S.I.



PN 141791

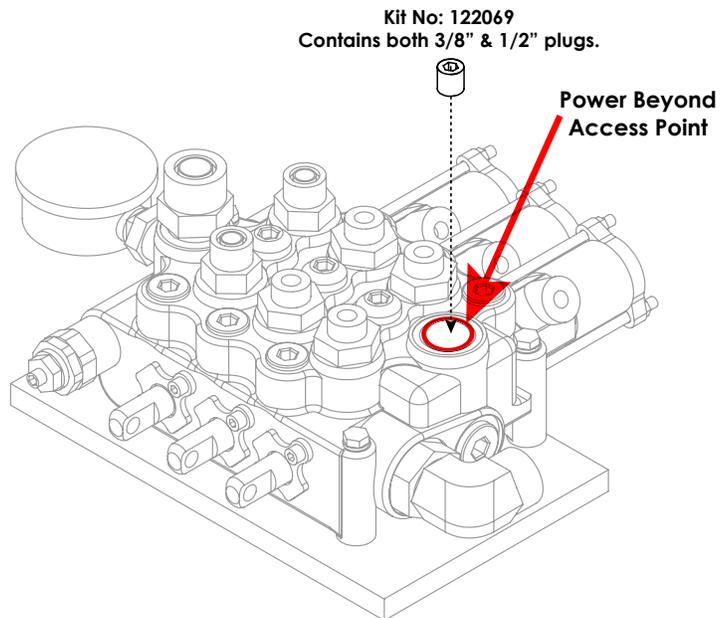
ITEM	PART	DESCRIPTION	QTY
01	55354	HOSE 0.50(4500PSI)-8FFSS-8FFSS 90 SHORT-88CL	2
02	141792	HOSE 0.50(4500PSL)-8FFSS-8FFSS 90 SHORT-88CL	2
03	141793	HOSE 0.38(3000PSI)-8-6MFS-8-6FFSS SHORT-96CL	2

REV. A

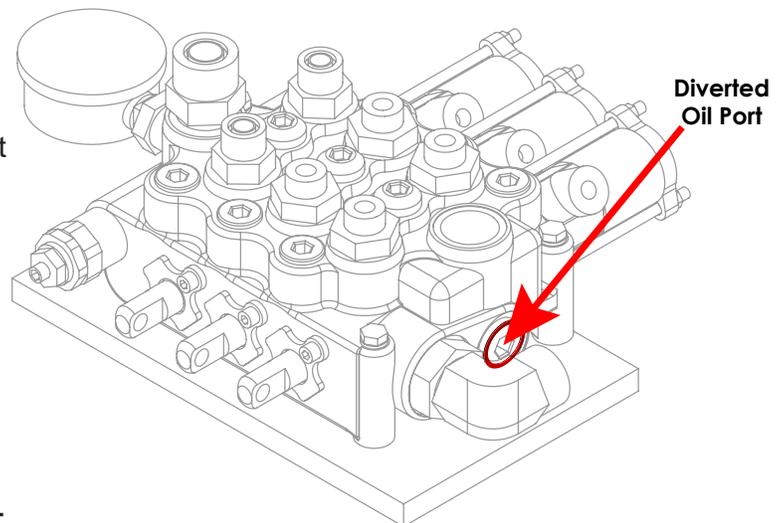
Power Beyond VDM8 Valve

These instructions are intended for correct installation of power beyond on a Salami VDM8 valve bank. If any hydraulic component is integrated after this valve the power beyond must be installed correctly, or serious damage may incur to the hydraulic system.

1. Remove cover / access plug to reveal the power beyond access point. Can also be used as the Return / Tank port.
2. Install one (either 1/2" or 3/8") plug from kit number:122069 into lower portion of cavity to activate the power beyond feature. Use thread sealer. (Tape sealers not recommended.)



3. The Power Beyond feature is now activated and will divert oil to alternate system via the port shown.



NOTES:

- THE RETURN / TANK LINE MUST BE CONNECTED TO THE TOP OR THE SIDE PORT, LABELED "T".
- USING THE RETURN LINE TO RUN AUXILIARY EQUIPMENT WILL DIRECTLY RESULT IN A FAILURE, AND WILL NOT IN ANY CIRCUMSTANCE, BE COVERED UNDER WARRANTY.
- A STANDARD STELLAR® HOOKLIFT WILL HAVE 6 HYDRAULIC LINES ATTACHED TO THE VALVE. WITH POWER BEYOND ACTIVATED, THEY WILL HAVE 7 HYDRAULIC LINES ATTACHED TO THE VALVE.

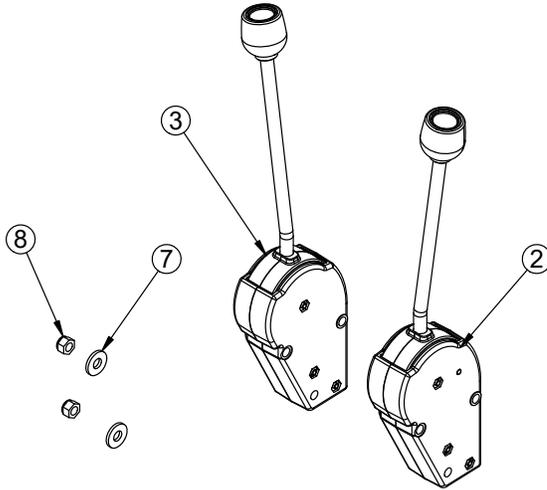
This page left intentionally blank.

Step 11: Install Cab And Pto Controls.

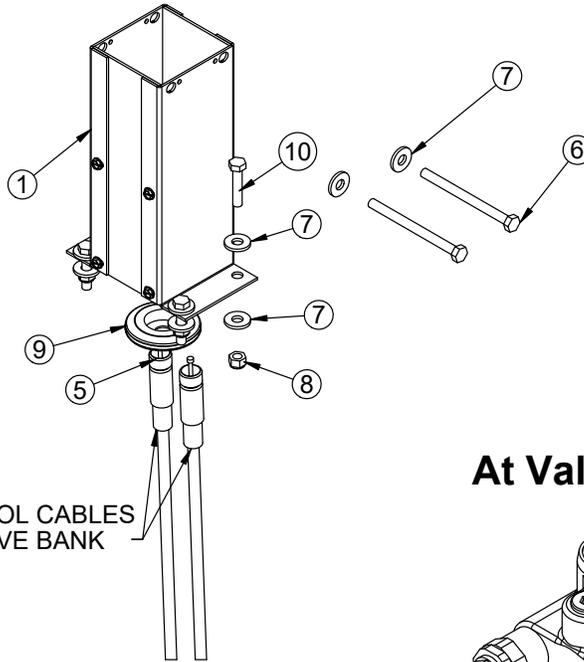
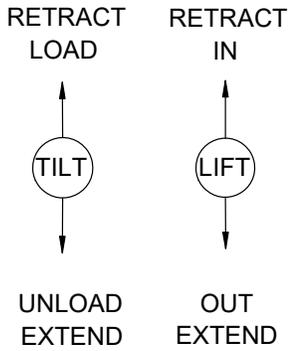
- Use PTO brand specific installation instructions.
- For cab controls, see controller assembly drawing for details:

Cable Controls

In Cab Installation

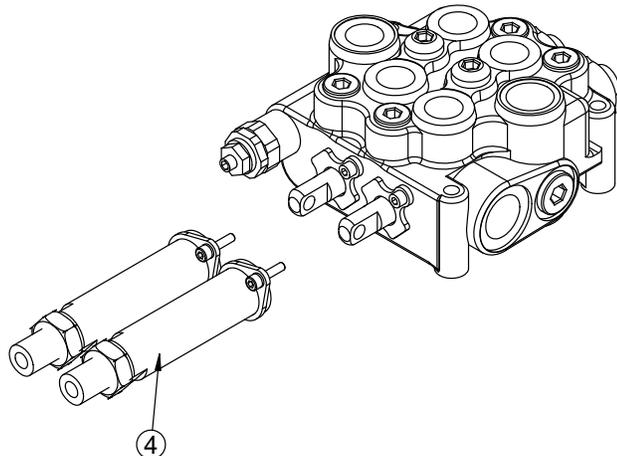


2 SECTION	
96 INCH	PN 50835
144 INCH	PN 53444
192 INCH	PN 50837



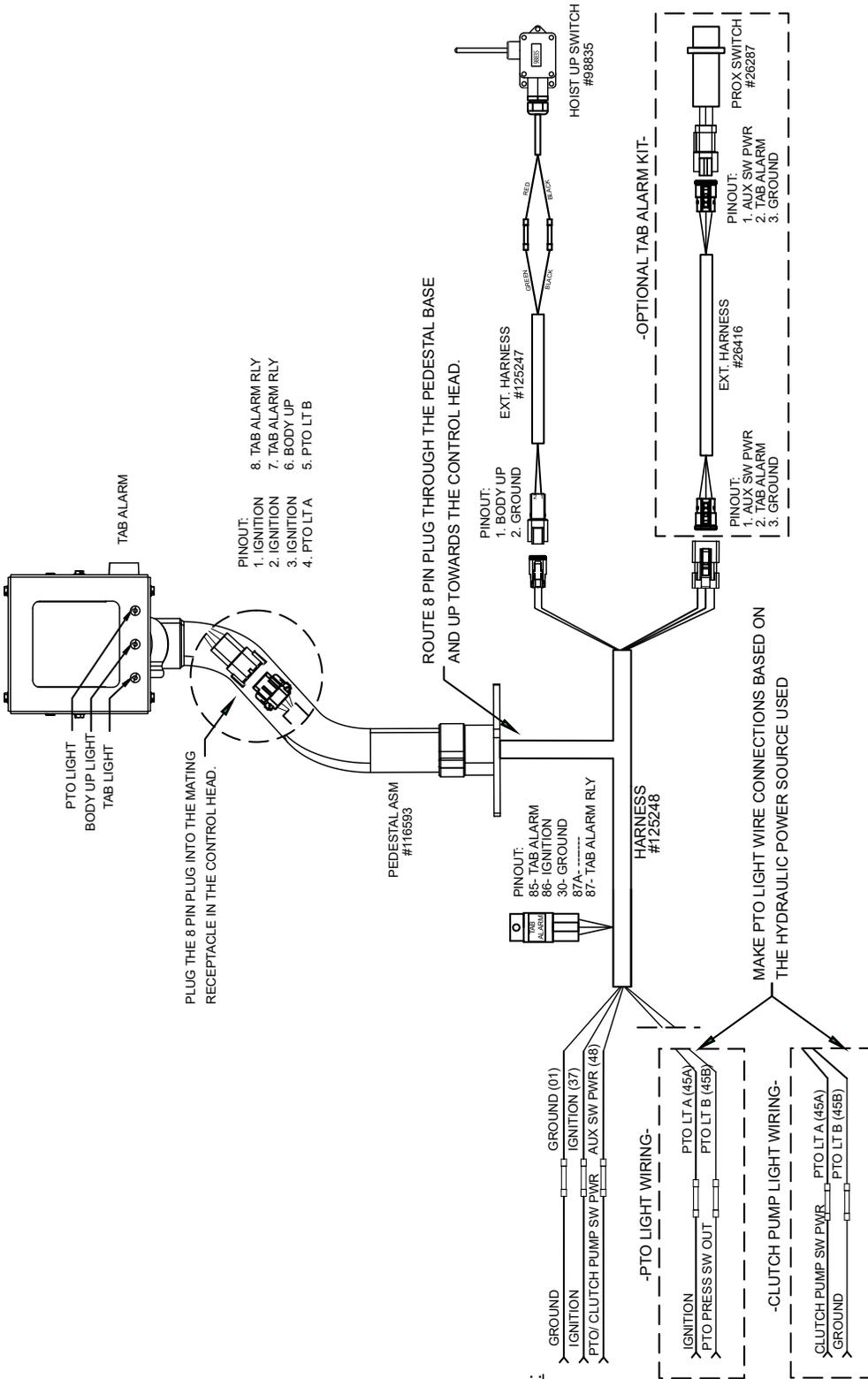
CONTROL CABLES
TO VALVE BANK

At Valve Installation



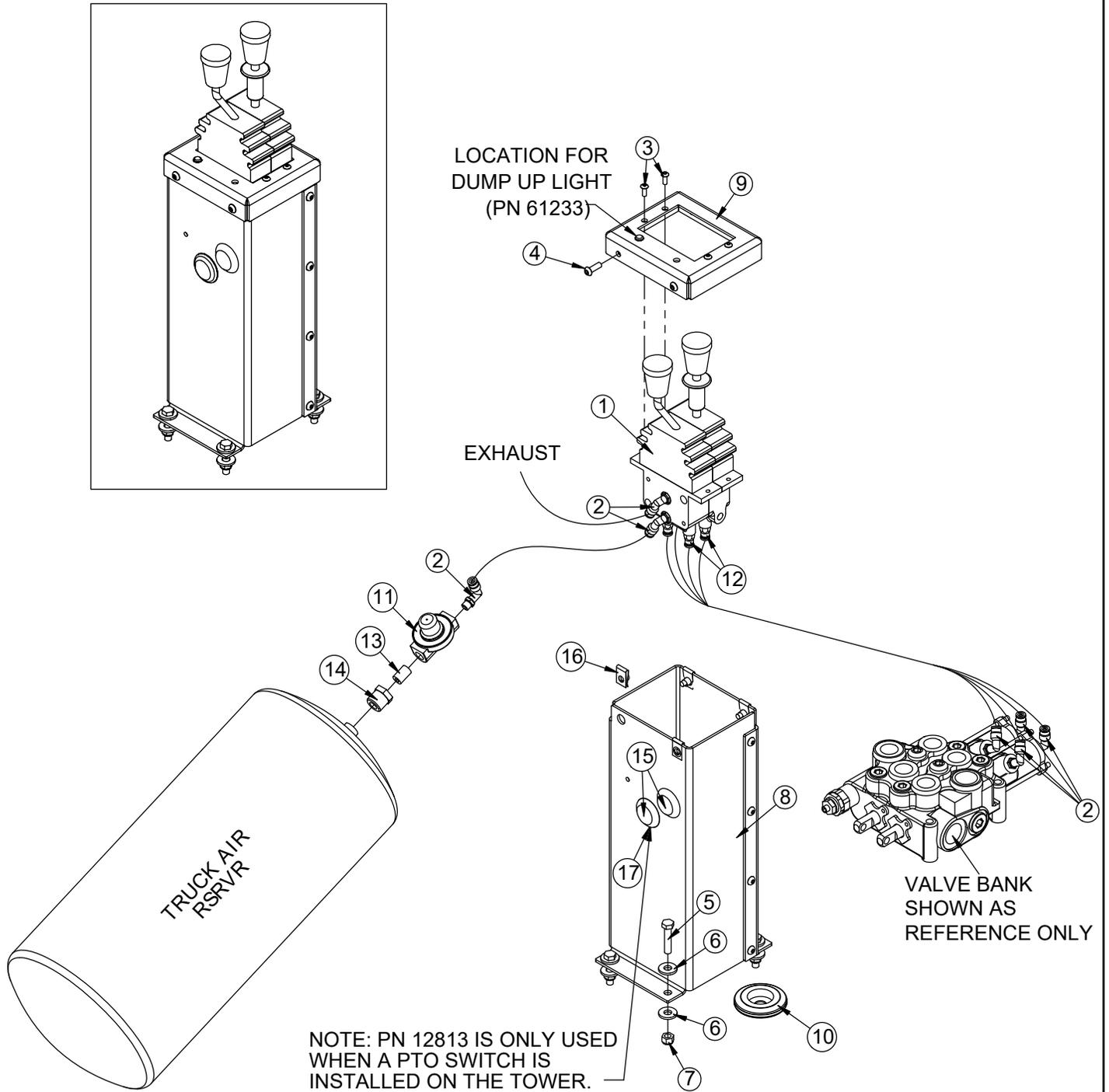
Cable Controls - PN 50835 Parts List

PN 50835			
ITEM	PART	DESCRIPTION	QTY
1	37470	VALVE CTRL CONSOLE 2LEVER RVC	1
2	37475	CTRL CNTR LOCK LEFT BEND	1
3	37474	CTRL CNTR LOCK RIGHT BEND	1
4	37469	CABLE CONN. KIT FOR VD8A/VDM8	2
5	37471	CONTROL CABLE 96 IN WESCON	2
	37472	CONTROL CABLE 144 IN WESCON	2
	37473	CONTROL CABLE 192 IN WESCON	2
6	0491	CAP SCR 0.31-18X4.00 HHGR5	2
7	0343	WASHER 0.31 USS FLAT	12
8	0342	NUT 0.31-18 HHGR5 NYLOC	6
9	16948	GROMMET 2.50ODX1.50GDX0.13X0.56ID	1
10	0486	CAP SCR 0.31-18X1.50 HHGR5	4
REV. C			



Controller Assembly - Cable

CHASSIS	TYPE	SECT	LENGTH (INCHES)	PART NO.
FORD F550 2017+	CABLE	2	120	142854
		3		142855
		2	144	142856
		3		142857
RAM 5500 2017+	CABLE	2	120	142858
		3		142859
		2	144	142860
		3		142861
CHEVY 5500 2017+	CABLE	2	120	142862
		3		142863
		2	144	142864
		3		142865
FREIGHTLINER M2 2017+	CABLE	2	120	142866
		3		142867
		2	144	142868
		3		142869
STANDARD CAB	CABLE	2	120	142870
		3		142871
		2	144	142872
		3		142873



Air Controls - PN 87689 Parts List

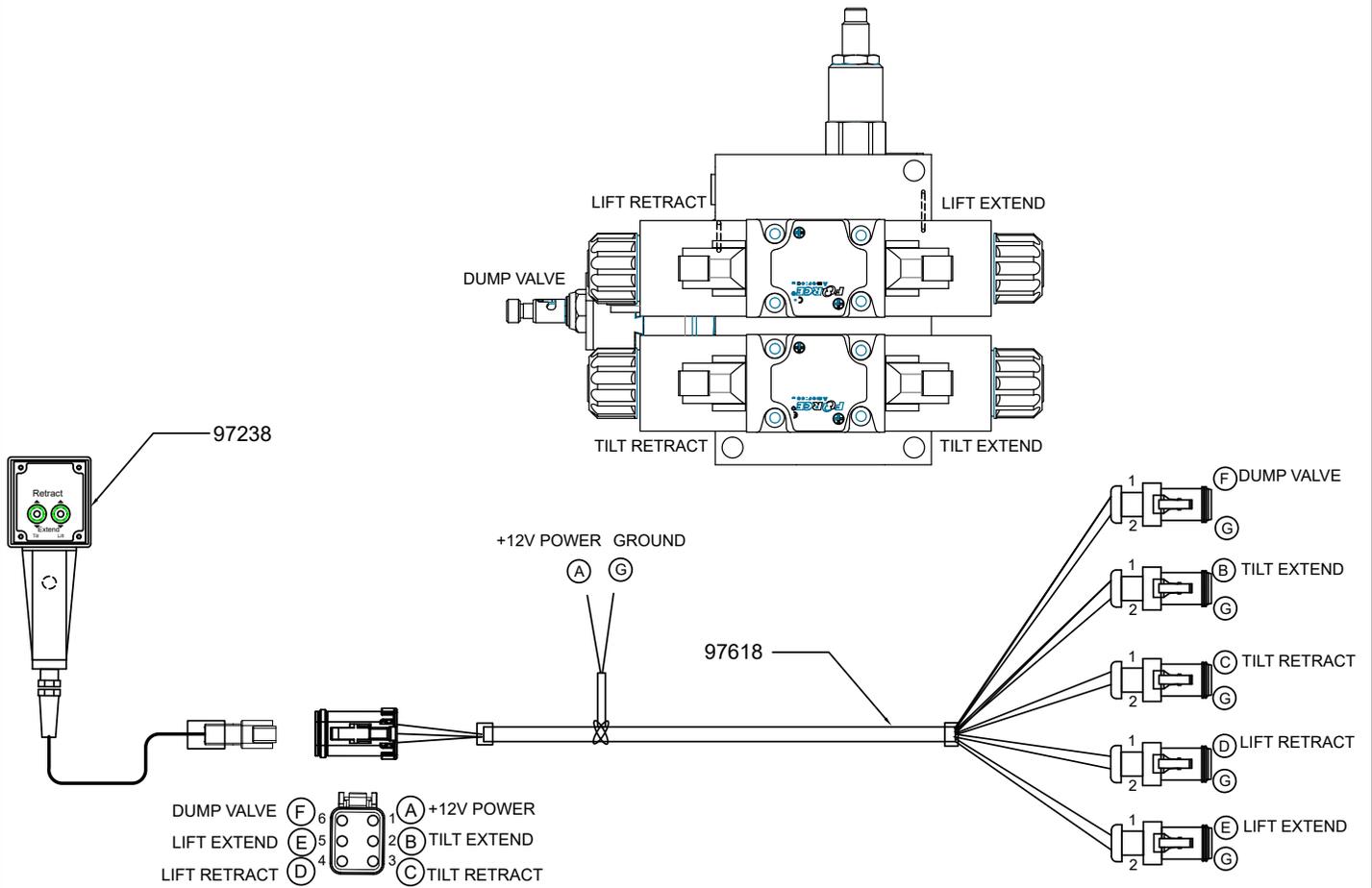
PN 87689			
ITEM	PART	DESCRIPTION	QTY
1	41988	CTRL 2 BANK 4WAY AIR CNTR LOCK	1
2	45687	FTG 4-2 MP-PTC 90 BRASS 1169X4S	7
3	D1711	CAP SCR #10-24X0.50 BTNHD SS	4
4	C6021	CAP SCR 0.25-20X0.75 BTNHD SS	4
5	0486	CAP SCR 0.31-18X1.50 HHGR5	4
6	0343	WASHER 0.31 USS FLAT	8
7	0342	NUT 0.31-18 HHGR5 NYLOC	4
8	87691	CONTROL TOWER SUB-ASM 2-SECT HOOKLIFT	1
9	87688	LID CONTROL TOWER 2-SECT HOOKLIFT	1
10	16948	GROMMET 2.50ODX1.50GDX0.13X0.56ID	1
11	35211	PTO AIR REGULATOR 378414	1
12	45333	FTG 4-2 PC DOT-MP STRAIGHT	4
13	C5934	FTG 4-4XCLOSE MP-MP NIPPLE STRAIGHT BLK	1
14	C1065	BUSHING 0.50X0.25 BLK	1
15	86116	PLUG PLASTIC 1.13 HOLE BLK	2
16	67296	NUT CLIP ON .25X.025-.15X.53	4
17	12813	GROMMET 1.50ODX1.25GDX0.13X0.63ID	1
REV. A			

ITEMS NOT SHOWN		
PART	DESCRIPTION	QTY
88146	DECAL CONTROL TOWER LID SHUTTLE 2SEC	1
D1810	TBE AIR SAEJ844 TYPE A .25 (RM)	60FT

Controller Assembly - Air

CHASSIS	TYPE	SECT	PART NO.
GENERAL USE	AIR	2	142874
		3	142875

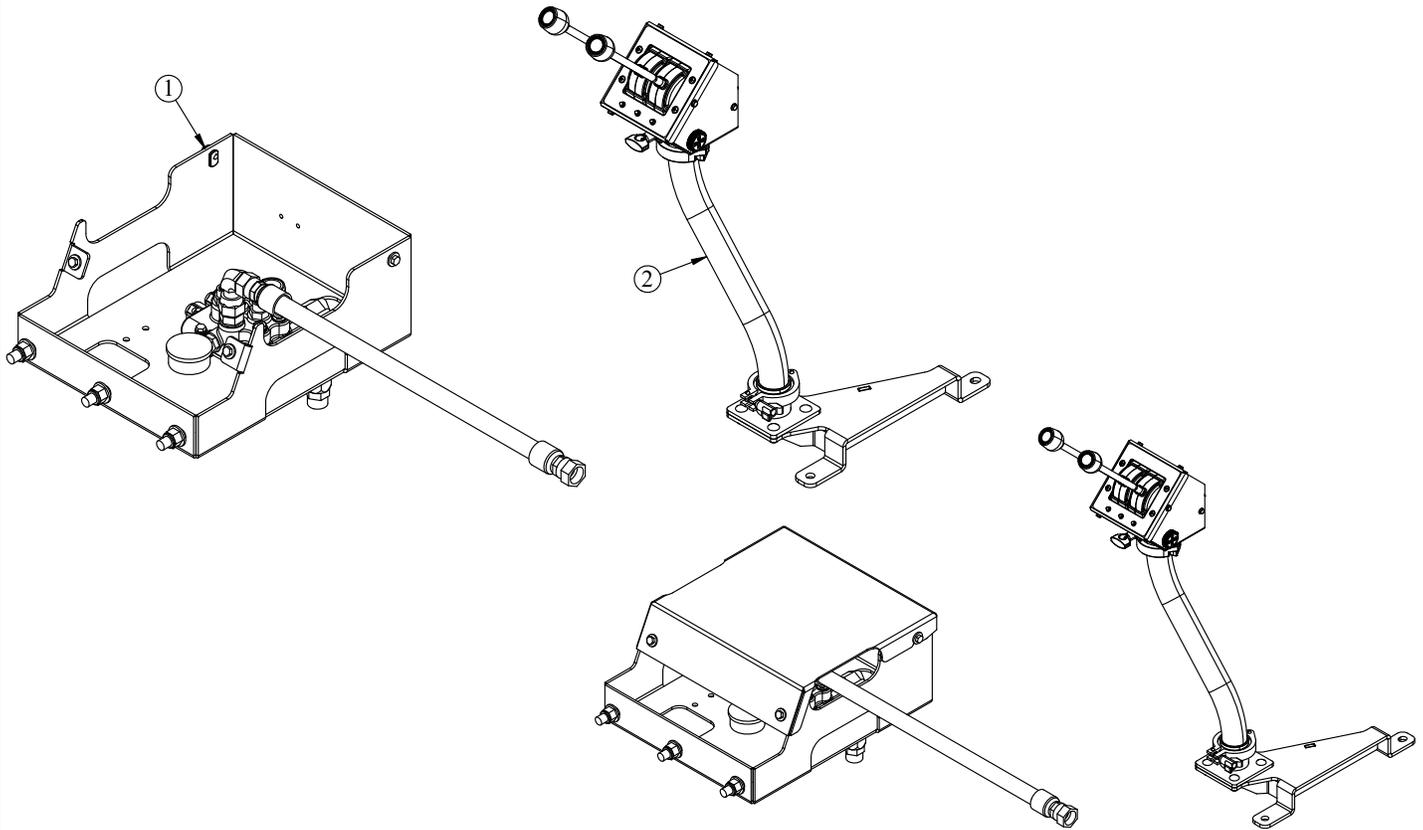
Electric Controls - PN 97617



PN 97617	
CIRCUIT NO.	CIRCUIT
A	+12V POWER
B	TILT EXTEND
C	TILT RETRACT
D	LIFT RETRACT
E	LIFT EXTEND
F	DUMP VALVE
G	GROUND

THIS PAGE LEFT INTENTIONALLY BLANK

2-Sect Controller Cable Asm - PN 142854



PN 142854

ITEM	PART	DESCRIPTION	QTY
1	142851	VB ASM 2S VDM8 NXT24/30 CABLE	1
2	142768	CONTROLLER ASM 2 SECT 120 IN LOADER W/RAM MNT FOR F550 2017+ NXT	1
REV. INITIAL RELEASE			

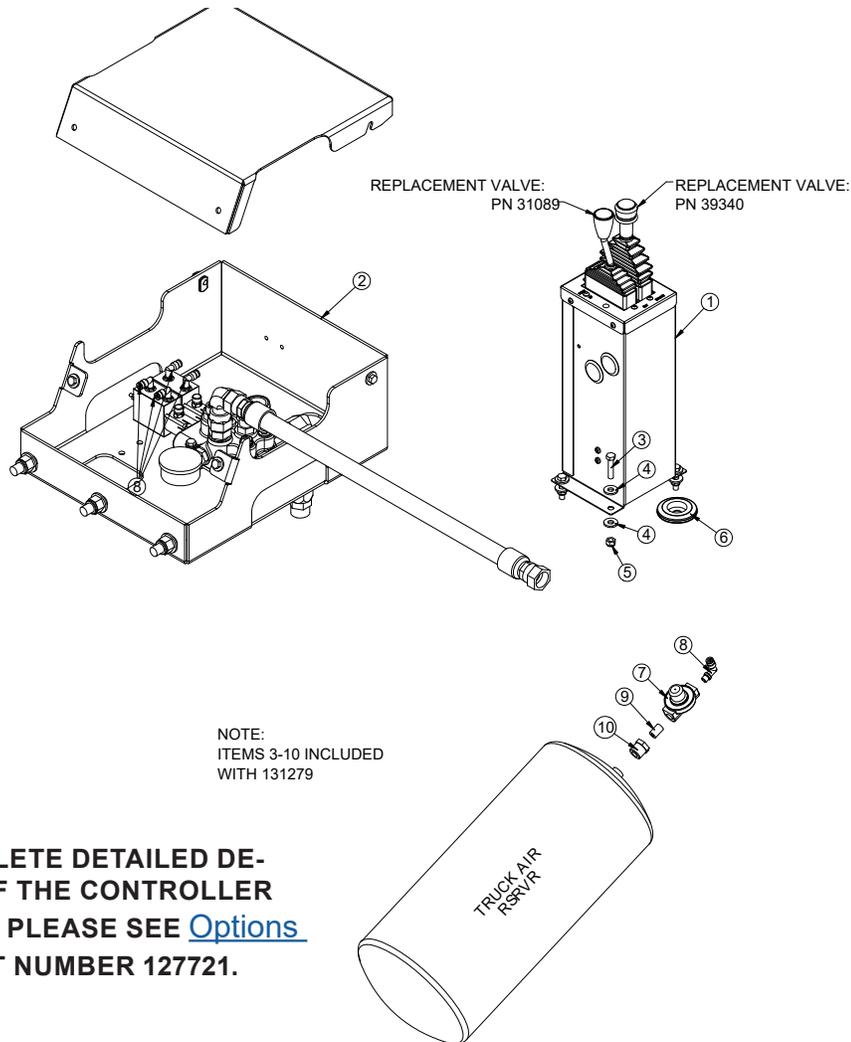
ITEMS NOT SHOWN

PART	DESCRIPTION	QTY
142884	HYD KIT FOR PLUNGER VALVE ON NXT24/30	1

NOTE:

FOR A COMPLETE DETAILED DESCRIPTION OF THE CONTROLLER ASSEMBLIES, PLEASE SEE [Options Manual](#), PART NUMBER 122772.

2-Sect Air Controller Asm - PN 142874



PN 142874

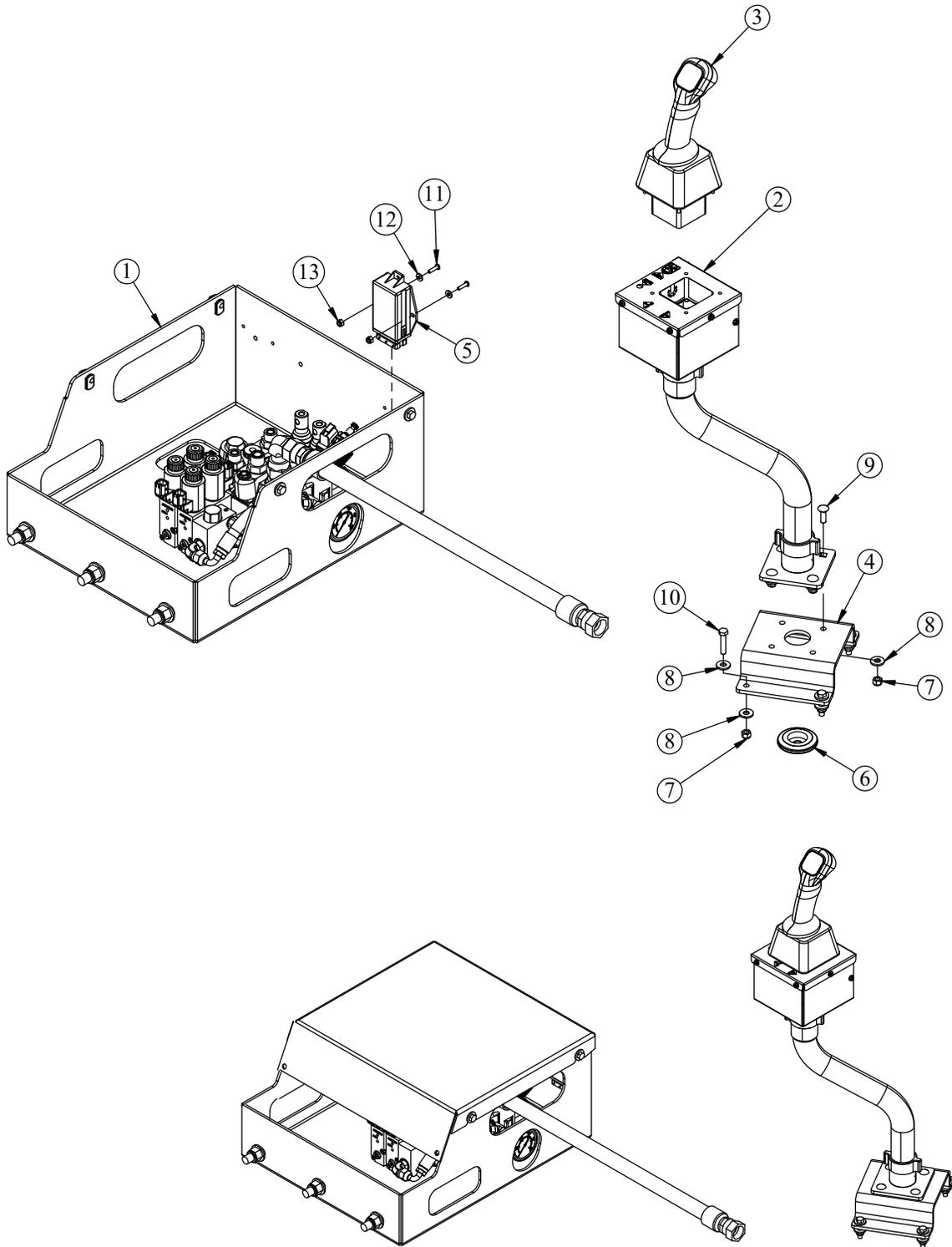
ITEM	PART	DESCRIPTION	QTY
1	131279	CONTROLLER ASM AIR 2 SECT NXT52	1
2	142853	VB ASM 2S VDM8 NXT AIR	1
3	0486	CAP SCR 0.31-18X1.50 HHGR5	4
4	0343	WASHER 0.31 USS FLAT	8
5	0342	NUT 0.31-18 HHGR5 NYLOC	4
6	16948	GROMMET 2.50ODX1.56GDX0.13X0.56ID	1
7	35211	PTO AIR REGULATOR 378414	1
8	45687	FTG 4-2 MP-PTC 90 BRASS 1169X4S	5
9	C5934	FTG 4-4XCLOSE MP-MP NIPPLE STRAIGHT BLK	1
10	C1065	BUSHING 0.50X0.25 BLK	1

REV. INITIAL RELEASE

ITEMS NOT SHOWN

PART	DESCRIPTION	QTY
132702	ELECTRICAL KIT AIR NXT52	1
132688	AIR SCHEM CONTROL TOWER ASM NXT52	1
135333	DECAL CONTROL TOWER LID NXT 2SEC	1

2-Sect Electric Controller Asm - PN 136972



2-Sect Electric Controller Asm - PN 136972 Parts List

PN 136972

ITEM	PART	DESCRIPTION	QTY
1	135711	VB ASM 2S D4 NXT24/30/52 WALVOIL ELEC	1
2	122202	CONTROLLER ELECT JOYSTICK PED NXT	1
3	131009	JOYSTICK CROSS GATED/2 MOM BUTTONS/ROCKER J1939	1
4	138171	CHANNEL HAT RISER 2.00 APSCO TOWER	1
5	137426	CONTROL MODULE IO-EXT2 J1939	1
6	16948	GROMMET 2.50ODX1.56GDX0.13X0.56ID	1
7	0342	NUT 0.31-18 HHGR5 NYLOC	8
8	0343	WASHER 0.31 USS FLAT	12
9	18906	BOLT CARRIAGE 0.31-18X1.00 SS	4
10	0486	CAP SCR 0.31-18X1.50 HHGR5	4
11	D0894	CAP SCR #10-24X0.75 BTNHD SS	2
12	D0178	WASHER #10 SAE FLAT	2
13	C4956	NUT #10-24 HH NYLOC SS	2

REV. INITIAL RELEASE

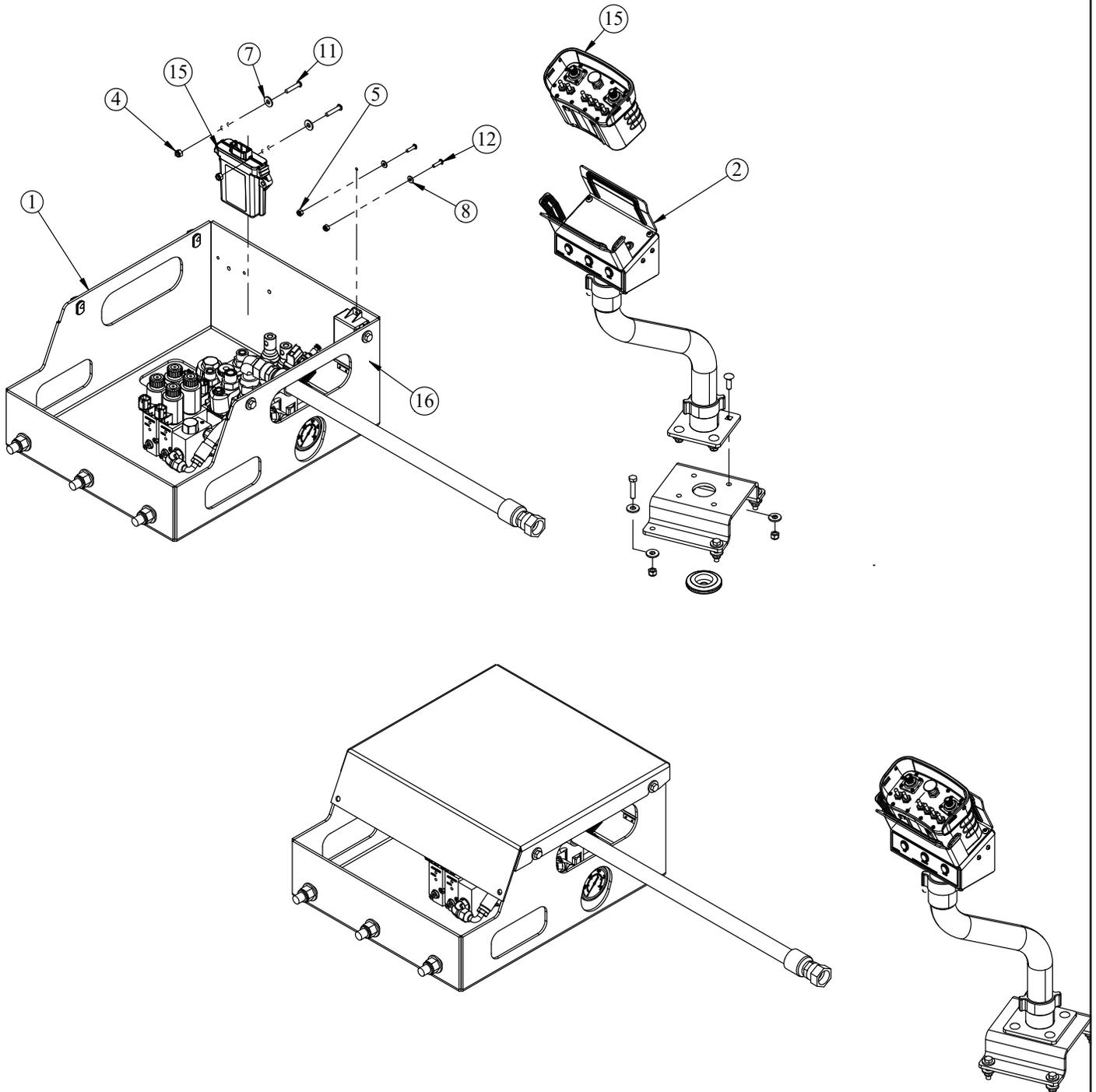
ITEMS NOT SHOWN

PART	DESCRIPTION	QTY
128963	WIRE HRNS ELECTRONIC CTRL NXT 52	1

NOTE:

FOR A COMPLETE DETAILED DESCRIPTION OF THE CONTROLLER ASSEMBLIES, PLEASE SEE [Options Manual](#), PART NUMBER 127721.

2-Sect Radio Controller Asm - PN 141518



2-Sect Radio Controller Asm - PN 141518 Parts List

PN 141518			
ITEM	PART	DESCRIPTION	QTY
1	135711	VB ASM 2S D4 NXT24/30/52 WALVOIL ELEC	1
2	140103	CONTROLLER ELECT RADIO REMOTE PED NXT	1
3	0342	NUT 0.31-18 HHGR5 NYLOC	8
4	0333	NUT 0.25-20 HHGR5 NYLOC	2
5	C4956	NUT #10-24 HH NYLOC SS	2
6	0343	WASHER 0.31 USS FLAT	12
7	0340	WASHER 0.25 USS FLAT	2
8	D0178	WASHER #10 SAE FLAT	2
9	18906	BOLT CARRIAGE 0.31-18X1.00 SS	4
10	0486	CAP SCR 0.31-18X1.50 HHGR5	4
11	D0528	CAP SCR 0.25-20X1.25 BTNHD SS	2
12	D0894	CAP SCR #10-24X0.75 BTNHD SS	2
13	138171	CHANNEL HAT RISER 2.00 APSCO TOWER	1
14	16948	GROMMET 2.50ODX1.56GDX0.13X0.56ID	1
15	141315	CONTROLLER ASM RADIO 2 SECT NXT40/68 W/VB ASM	1
16	137426	CONTROL MODULE IO-EXT2 J1939	1
REV. INITIAL RELEASE			

ITEMS NOT SHOWN		
PART	DESCRIPTION	QTY
141316	WIRE HRNS NXT52 RADIO I/O	1

NOTE:

FOR A COMPLETE DETAILED DESCRIPTION OF THE CONTROLLER ASSEMBLIES, PLEASE SEE [Options Manual](#), PART NUMBER 127721.

Controller Assembly - Cable

CHASSIS	TYPE	SECT	LENGTH (INCHES)	PART NO.
FORD F550 2017+	CABLE	2	120	142854
		3		142855
		2	144	142856
		3		142857
RAM 5500 2017+	CABLE	2	120	142858
		3		142859
		2	144	142860
		3		142861
CHEVY 5500 2017+	CABLE	2	120	142862
		3		142863
		2	144	142864
		3		142865
FREIGHTLINER M2 2017+	CABLE	2	120	142866
		3		142867
		2	144	142868
		3		142869
STANDARD CAB	CABLE	2	120	142870
		3		142871
		2	144	142872
		3		142873

Controller Assembly - Air

CHASSIS	TYPE	SECT	PART NO.
GENERAL USE	AIR	2	142874
		3	142875

Controller Assembly - Electric

CHASSIS	TYPE	SECT	PART NO
GENERAL USE	ELECTRIC	2	136972
		3	138175

Controller Assembly - Radio

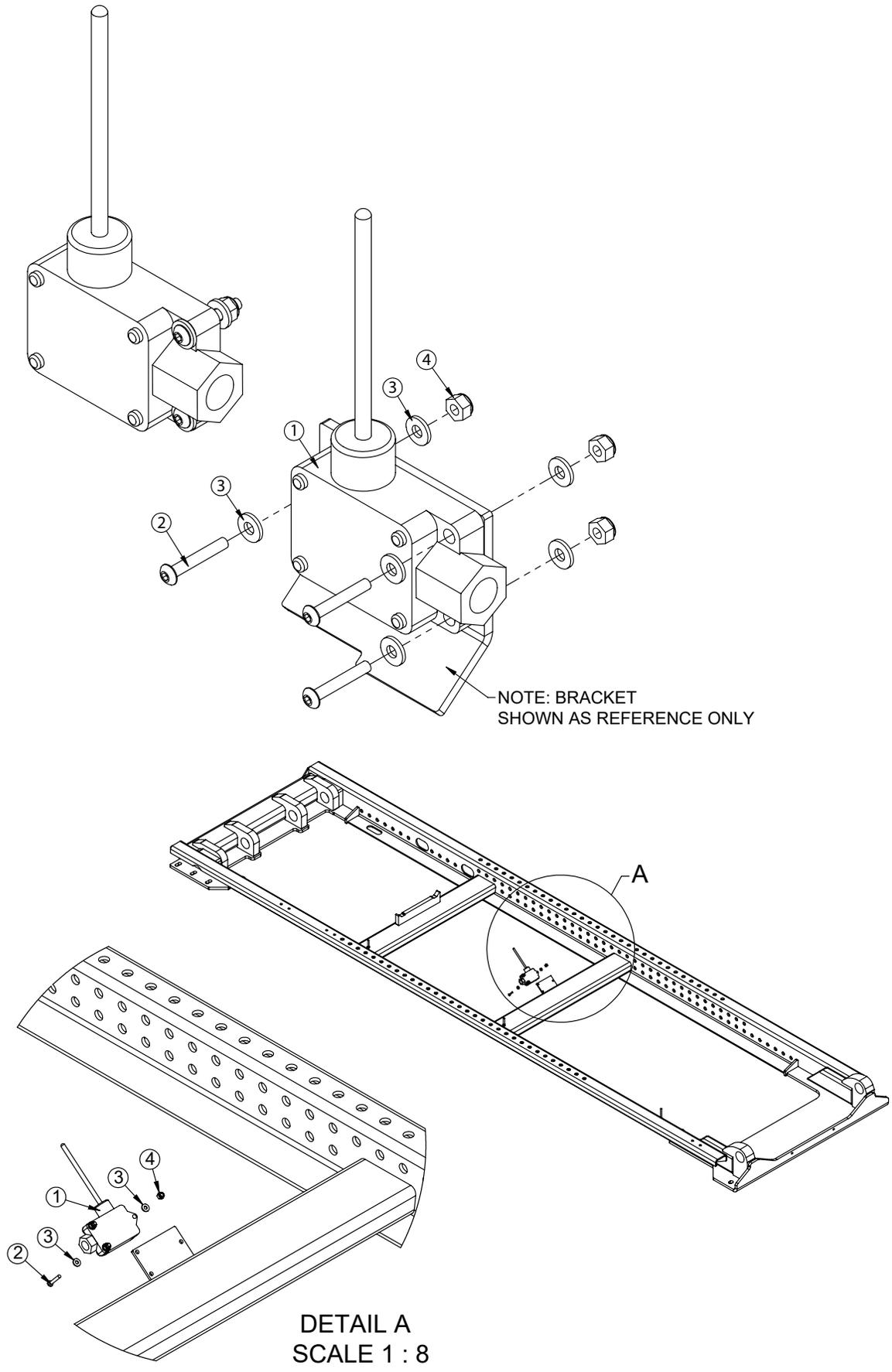
CHASSIS	TYPE	SECT	PART NO.
GENERAL USE	RADIO	2	141518
		3	141519

NOTE:

FOR A COMPLETE DETAILED DESCRIPTION OF THE CONTROLLER ASSEMBLIES, PLEASE SEE [Options Manual](#), PART NUMBER 127721.

This page left intentionally blank.

Step 8: Install Hoist Up Light Sensor - PN 127153



Hoist Up Light Sensor - PN 127153 Parts

PN 127153

ITEM	PART	DESCRIPTION	QTY
1	127000	SWITCH ASM HOIST UP NXT	1
2	30472	CAP SCR #10-24X1.25 BTNHD SS	3
3	D0178	WASHER #10 SAE FLAT	6
4	26034	NUT #10-24 HH NYLOC	3

NOTES:

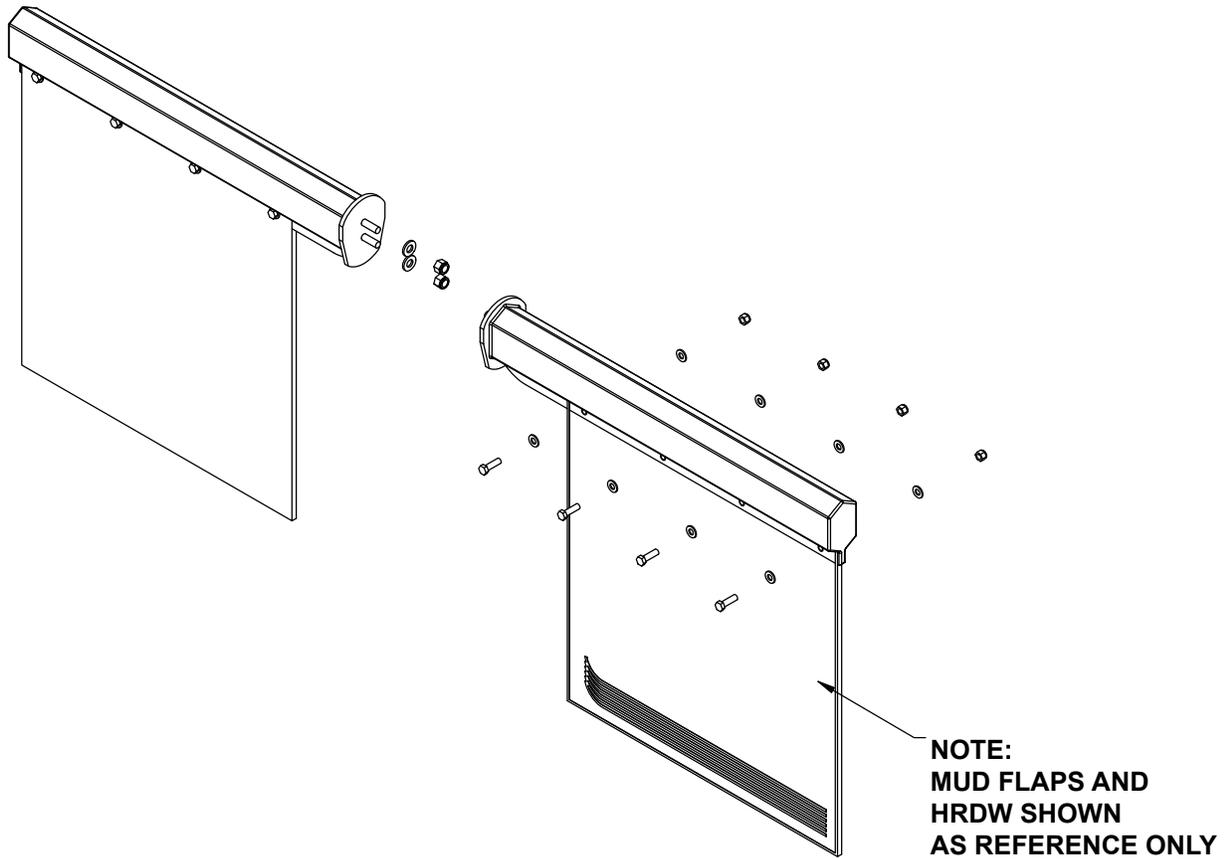
SEE CONTROLLER ASM FOR WIRING.

FOR REFERENCE:

- GREEN TO IGNITION
- BLACK TO BODY DN
- WHITE TO BODY UP

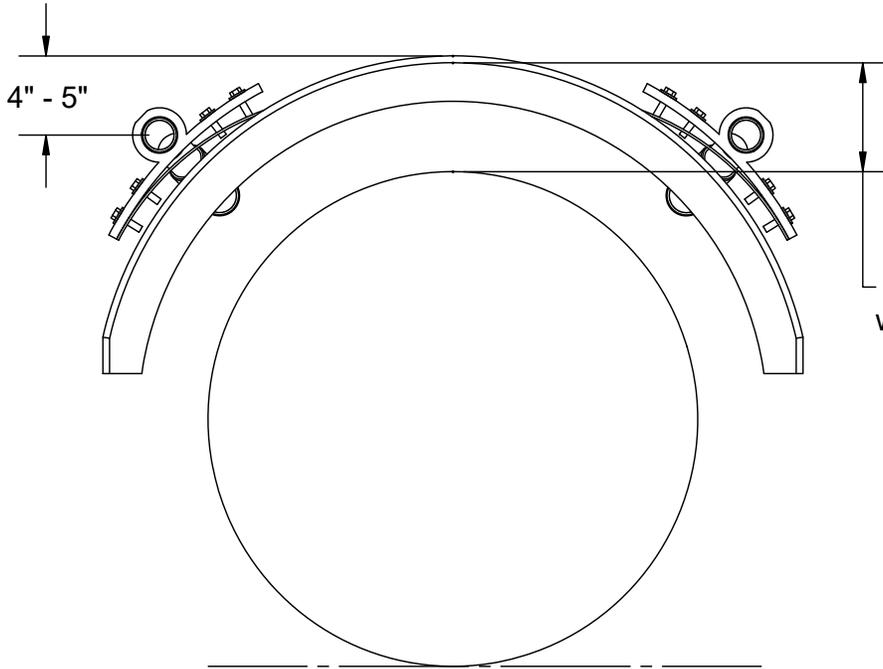
Step 9: Install Mud Flaps And Fenders

Qty: 2



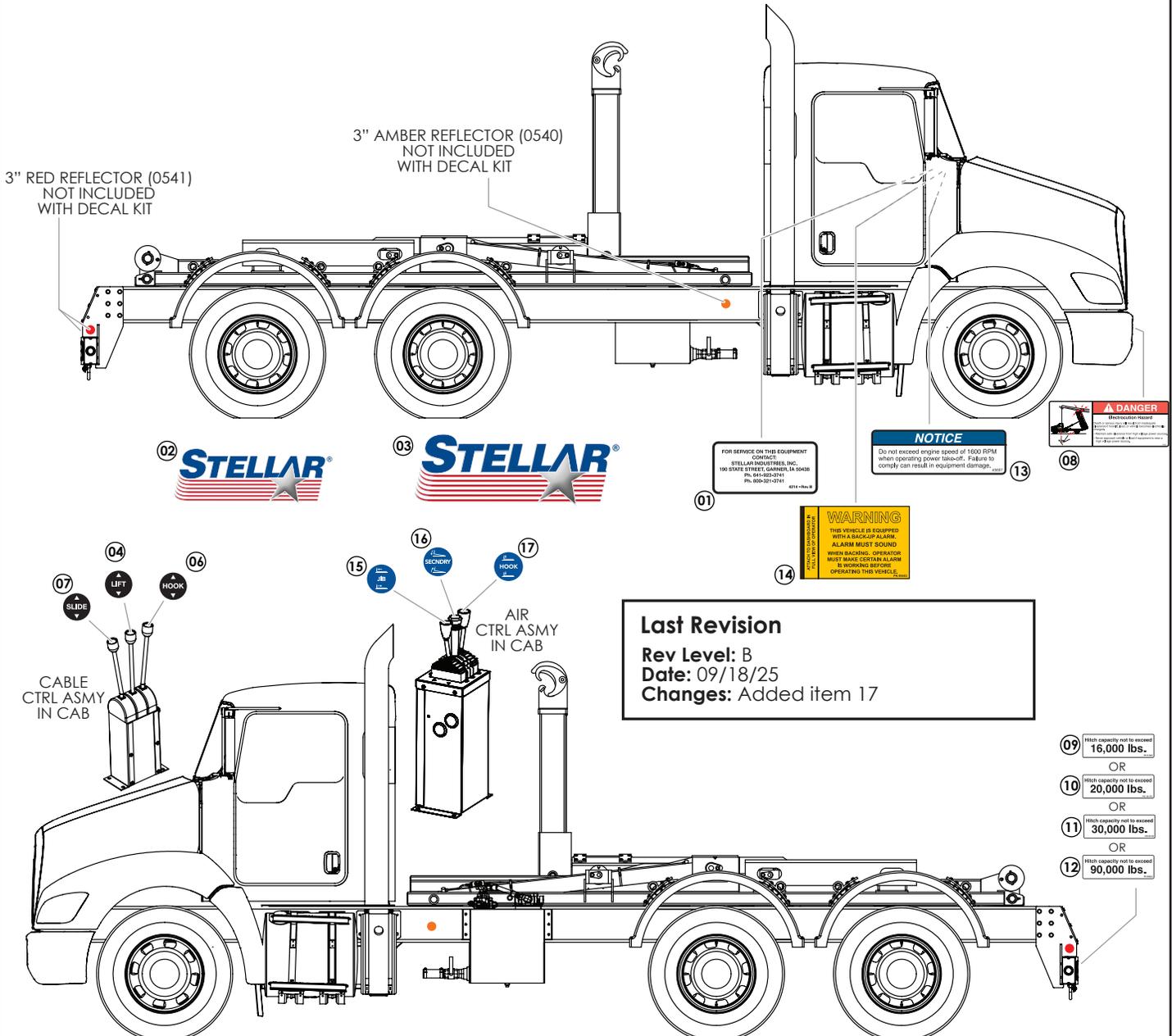
NOTES:
MOUNT MUD FLAPS AT LEAST 6" BEHIND EXHAUST.
DO NOT USE SUPPLIED HARDWARE WITH BRACKETS.

Fender Dimensions



For F550/F600's -
Mount fenders 6" - 6.50"
above the top of tire. This
will leave adequate clearance if
the suspension bottoms out.

Step 10: Apply Chassis Decals - PN 121012

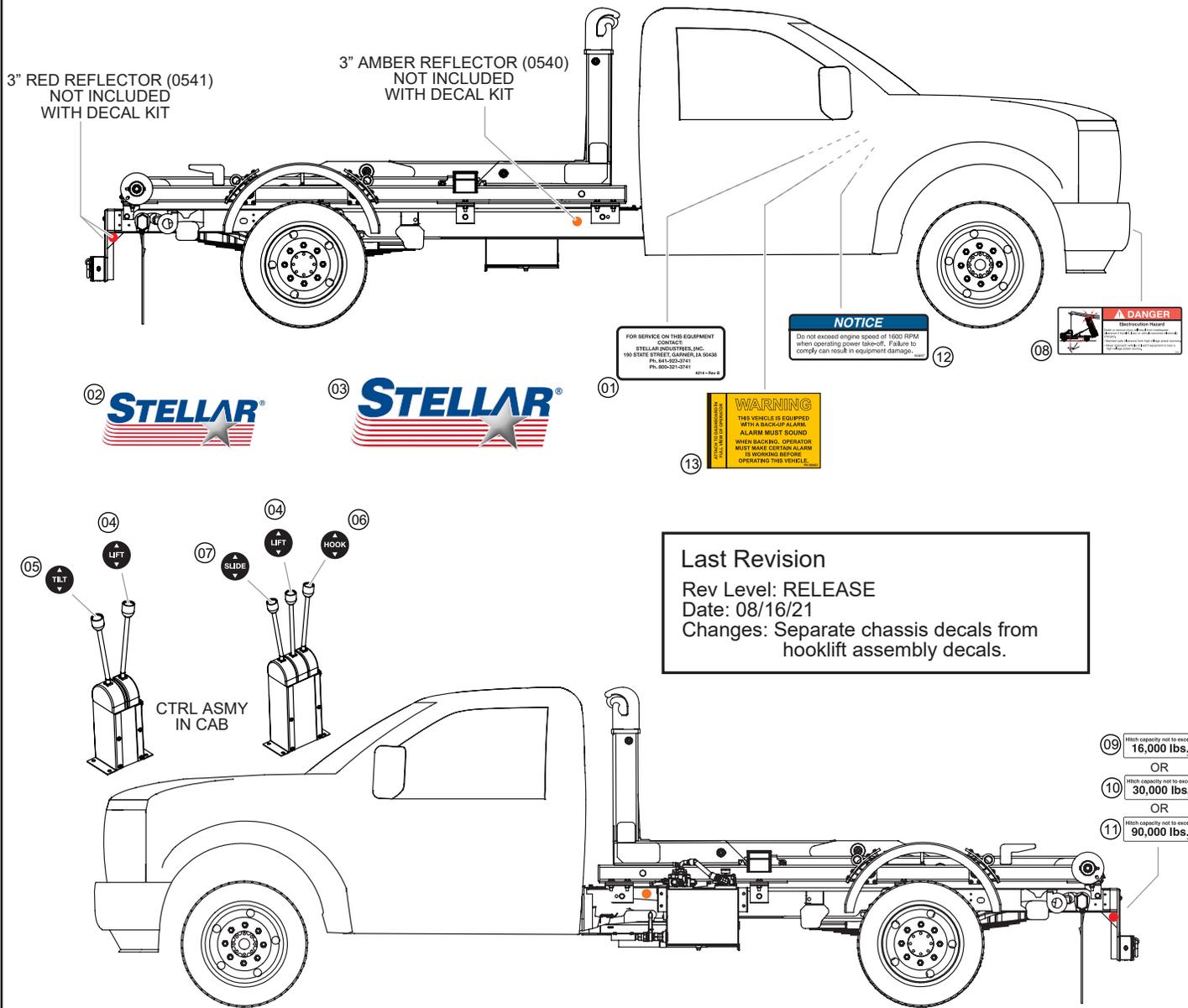


Last Revision
 Rev Level: B
 Date: 09/18/25
 Changes: Added item 17

PN 121012

ITEM	PART No.	DESCRIPTION	SUGGESTED LOCATION	QTY.
01	4214	DECAL CONTACT STELLAR	IN CAB	1
02	53850	DECAL STELLAR LOGO 4.00X11.50	SHIPPED LOOSE - OPTIMAL PLACEMENT	1
03	52681	DECAL STELLAR LOGO 6.00X16.50	SHIPPED LOOSE - OPTIMAL PLACEMENT	1
04	39211	DECAL HOOKLIFT LEVER LIFT	CABLE CONTROL TOWER (IF INSTALLED, CONFIGURATIONS VARIES)	2
05	39212	DECAL HOOKLIFT LEVER TILT	CABLE CONTROL TOWER (IF INSTALLED, CONFIGURATIONS VARIES)	2
06	55414	DECAL HOOKLIFT LEVER HOOK	CABLE CONTROL TOWER (IF INSTALLED, CONFIGURATIONS VARIES)	2
07	55754	DECAL HOOKLIFT LEVER SLIDE	CABLE CONTROL TOWER (IF INSTALLED, CONFIGURATIONS VARIES)	2
08	79983	DECAL DANGER ELECTROCUTION	FRONT BUMPER - STREET SIDE OR REAR BUMPER - CURB SIDE	1
09	91220	DECAL HITCH CAPACITY 16K	SELECT APPROPRIATE CAPACITY; REAR BUMPER - ABOVE PINTLE LOCATION; DISCARD OTHERS	1
10	141745	DECAL HITCH CAPACITY 20K		1
11	91219	DECAL HITCH CAPACITY 30K		1
12	68222	DECAL HITCH CAPACITY 90K		1
13	45697	ENGINE SPEED PTO CAUTION	IN CAB	1
14	69463	DECAL BACK-UP ALARM VERIFY	IN CAB	1
15	135336	DECAL HOOKLIFT CONTROLLER JIB NXT	AIR CONTROL TOWER (IF INSTALLED, CONFIGURATIONS VARIES)	1
16	135337	DECAL HOOKLIFT CONTROLLER SECONDARY NXT	AIR CONTROL TOWER (IF INSTALLED, CONFIGURATIONS VARIES)	1
17	135335	DECAL HOOKLIFT CONTROLLER HOOK NXT	AIR CONTROL TOWER (IF INSTALLED, CONFIGURATIONS VARIES)	1

Step 10A: Apply Chassis Decals



PN 121012

ITEM	PART No.	DESCRIPTION	SUGGESTED LOCATION	QTY.
01	4214	DECAL CONTACT STELLAR	IN CAB	1
02	53850	DECAL STELLAR LOGO 4.00X11.50	SHIPPED LOOSE - OPTIMAL PLACEMENT	1
03	52681	DECAL STELLAR LOGO 6.00X16.50	SHIPPED LOOSE - OPTIMAL PLACEMENT	1
04	39211	DECAL HOOKLIFT LEVER LIFT	CONTROL TOWER	2
05	39212	DECAL HOOKLIFT LEVER TILT	CONTROL TOWER	2
06	55414	DECAL HOOKLIFT LEVER HOOK	CONTROL TOWER	2
07	55754	DECAL HOOKLIFT LEVER SLIDE	CONTROL TOWER	2
08	79983	DECAL DANGER ELECTROCUTION	FRONT BUMPER - STREET SIDE OR REAR BUMPER - CURB SIDE	1
09	91220	DECAL HITCH CAPACITY 16K	SELECT APPROPRIATE CAPACITY; REAR BUMPER - ABOVE PINTLE LOCATION; DISCARD OTHERS	1
10	91219	DECAL HITCH CAPACITY 30K		1
11	68222	DECAL HITCH CAPACITY 90K		1
12	45697	ENGINE SPEED PTO CAUTION	IN CAB	1
13	69463	DECAL BACK-UP ALARM VERIFY	IN CAB	1

Step 11: Fill Reservoir And Activate Hydraulic Flow

- Fill reservoir to site gauge, within 3” from the top (Roughly 25 Gallons). Note: ISO 32 hydraulic oil is recommended.
- When connections are secure, activate hydraulic flow by opening the ball valve on the bottom of the reservoir. This will allow oil to flow from the reservoir to the pump.

Step 12: Operate Hooklift

WARNING

Stellar® Hooklift operators must conform to the qualifications specified in the NXT24/30 Safety, Operation, Maintenance, Troubleshooting Manual. Read and understand all manuals and safety signs before operating or servicing this equipment.

- Bleed the air out of the hydraulic system.
- Check the hydraulic oil level and add oil if needed. When checking hydraulic oil level, make certain that **all system cylinders** are fully retracted.
- Calibrate dump light system.
- Be sure to check all clearances.
- Set / check relief pressure no higher than 4200 PSI.



Subject to Change without Notification.
© 2025 Stellar Industries, Inc.