



Section

5

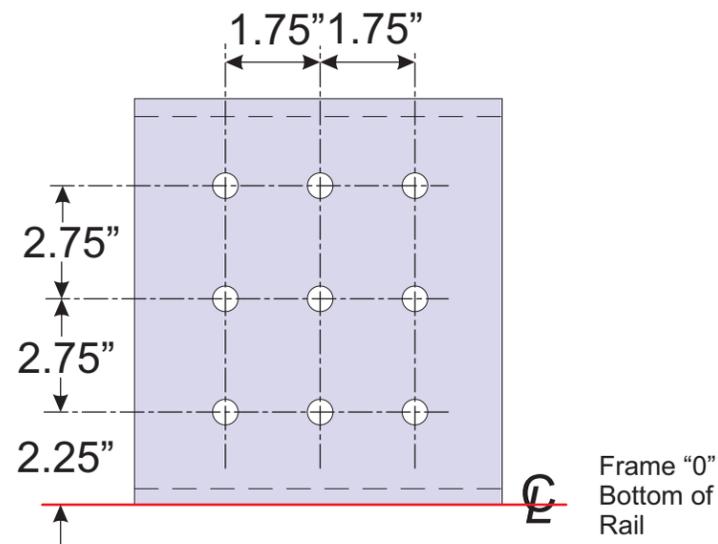
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This guide is to be used as a reference document only. Please consult your Western Star CAE representative on specific spec'ing needs as the information contained in this document can change without notice.

4800/4900/6900 Models

Standard **WST** Chassis Grid



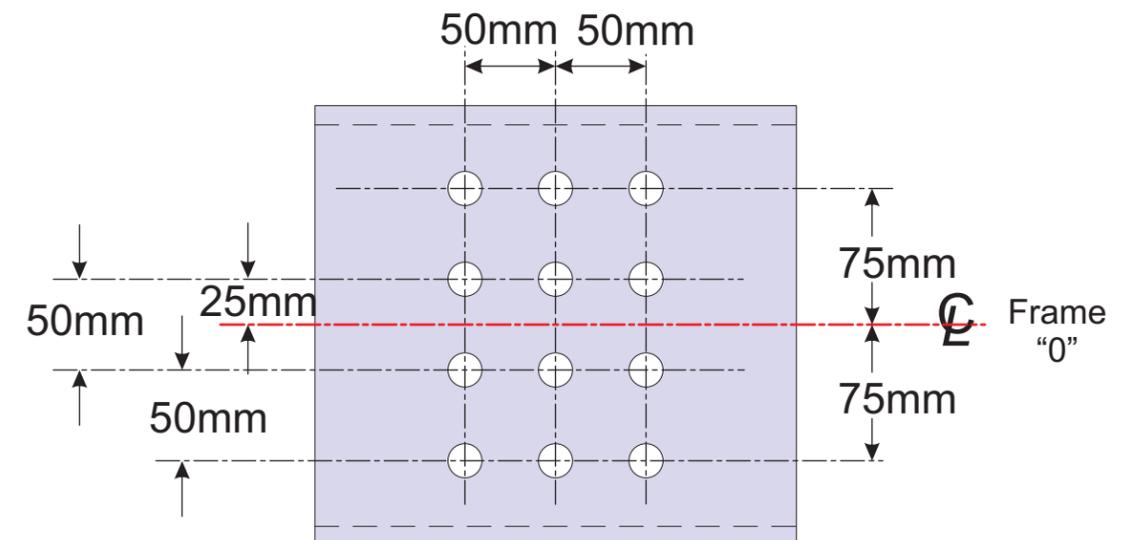
WST Frame Rails

WST frame rails are designed to maintain a constant outside dimension of 34" with the exception of the 548 outer reinforcement. Frame 0.0 for these rails is located at the bottom of the rail with all dimension located up from this 0.0 point. This constant datum point provides body builders with a consistent working position regardless of the frame size.

See Section 3 for more detailed Frame Information

4700 Models

Standard **DCC** Chassis Grid



Daimler Common Chassis (DCC) Frame Rails

DCC frame rails are designed to maintain a constant main rail inside dimension of 33.6". The frame 0.0 point of these rails is located at the center line of the rail web with all frame holes dimensioned up or down from the center of rail. For this reason frame size is a critical component that must be taken into account when locating components off existing hole patterns and calculating ride heights.

See Section 3 for more detailed Frame Information

Air System Overview

Standard air system is broken down into 3 groups:

Supply

These tanks are used to hold the air from the compressor and capture most of the water which is passed on from the compressor and condensates in the tank as it cools.

“A” system or Primary

Generally used for supplying the rear brakes.

“B” system or Secondary

Generally used for supplying the front brakes.

Note: systems will change based on individual customer requirements always check schematic to confirm line routing.

Addition systems include:

“C” tank

Used as lift axle supply tank.

Receiver Tank

Used with 24cfm or larger compressors to aid in the cooling of air before the air dryer. A moisture ejector is mandatory in receiver tank applications.

Air drains are mounted in the lowest rear port of all air tanks; combination tanks will require an additional drain in the forward portion of the tank. Air tank quantities and sizes are calculated in engineering based on the total area requirements of the brake chambers on the truck and trailer. “A” system air volume is generally larger than the “B” system due to the rear axle supply requirements.

Air Tank Location Guide

There are many factors that determine the size, quantity, and location of air tanks on any given vehicle.

Some of the factors that determine the air tank size include:

- Brake size
- Number of Axles
- Type of brakes (drum vs. disc)

This information, along with government safety regulations, helps determine the volume of air required.

The quantity and location of the air tanks is determined by the following:

- Fuel Tank, type, size, and location
- Exhaust type and location
- Wheel-base
- Engine/Transmission (including PTO's)
- Other frame-mounted components (battery box, back-of-cab access steps, air dryer, etc.)
- Clear frame requests (module 607)
- Location specific sales codes for air tanks (module 460)

These last two points are often the customers most direct influence on the location of air tanks. If you would like to keep air tanks out of a certain area then use a 607 code.

See options chart on P. 5-4



4800/4900/6900
Perpendicular
Mounting



4800/4900/6900
In rail and outside rail
Mounting



4800/4900/6900
(Standard) below rail
mounting



4700
In Rail/Below Rail
combination



4700
Below rail
mounting



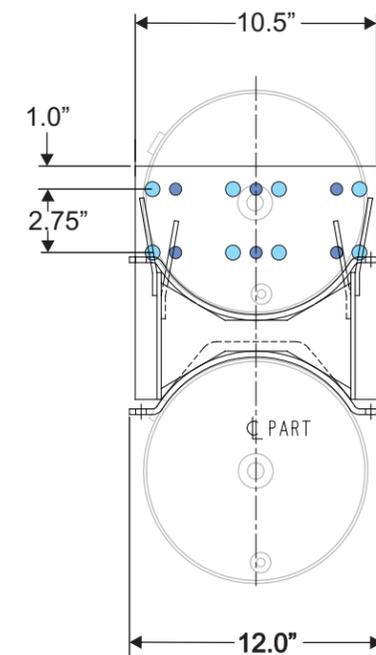
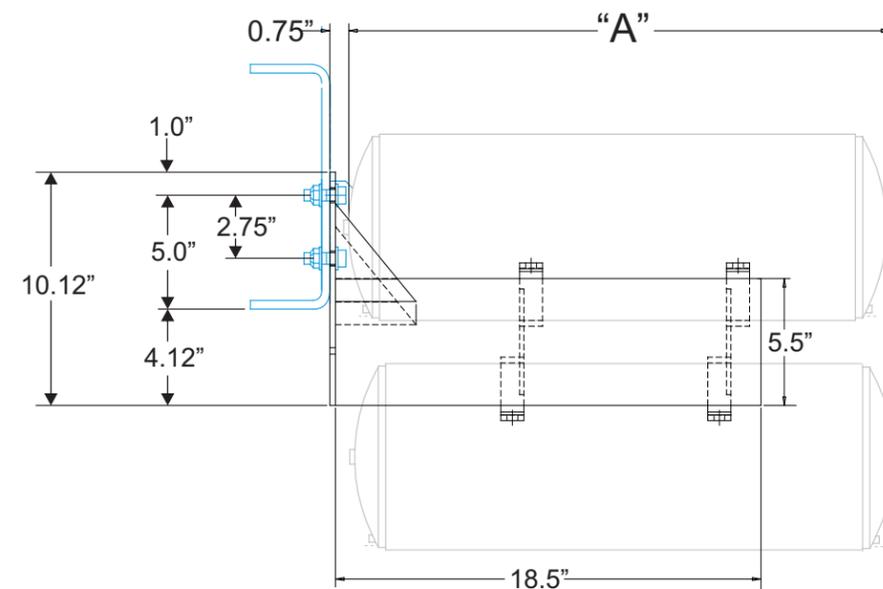
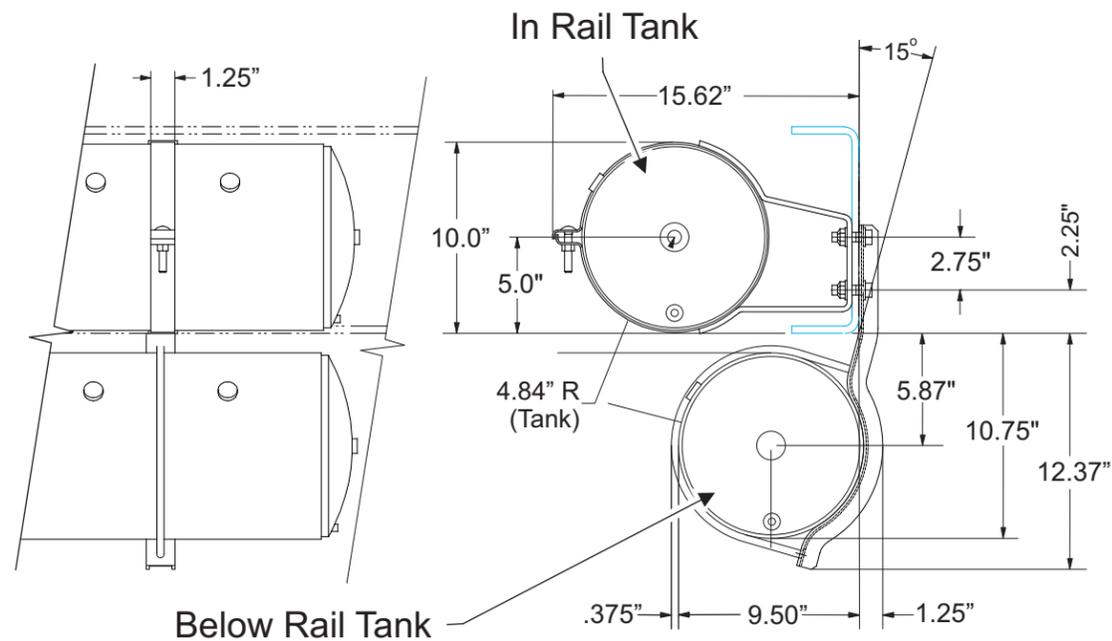
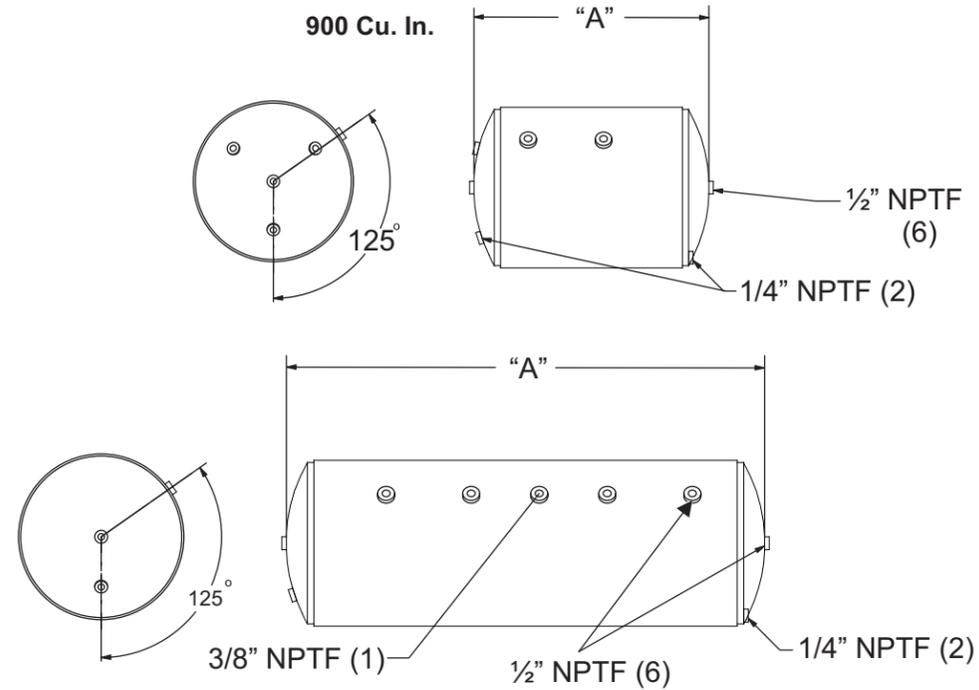
Western Star Bodybuilder Book: Revision 3.1

WST Chassis Air Tanks Overview

OPTION	DESCRIPTION	STD	EXT
460-001	STEEL AIR BRAKE RESERVOIRS	X	X
460-007	ALUMINUM AIR BRAKE RESERVOIRS	X	X
460-008	STEEL AIR BRAKE RESERVOIRS MOUNTED INSIDE RAIL	X	X
460-014	STEEL AIR TANKS MOUNTED BELOW FRAME RAILS	X	
460-019	ALUMINUM AIR BRAKE RESERVOIRS MOUNTED INSIDE RAILS	X	X
460-031	ALUMINUM AIR BRAKE RESERVOIRS AND STEEL BW AD-IS (DRM) AIR RESERVOIR	X	
460-032	STEEL AIR BRAKE RESERVOIRS MOUNTED AT LEAST 40 INCHES AFT OF CAB INSIDE OR BELOW RAILS	X	
460-040	STEEL AIR BRAKE RESERVOIRS MOUNTED PERPENDICULAR TO OUTSIDE RAIL	X	X
460-058	STEEL AIR TANKS MOUNTED AFT INSIDE AND/OR BELOW FRAME JUST FORWARD OF REAR SUSPENSION	X	
460-059	STEEL AIR TANKS INSIDE RAIL WITH HEAVY DUTY BRACKETS PREFERRED; OTHERS BELOW RAIL WITH HEAVY DUTY BRACKETS	X	X
460-067	STEEL AIR TANKS MOUNTED UNDER BATTERY BOX WHEN POSSIBLE (NON-DRM TANKS ONLY)	X	
460-068	ALUMINUM AIR TANKS MOUNTED UNDER BATTERY BOX WHEN POSSIBLE (NON-DRM TANKS ONLY)	X	
460-078	STEEL AIR BRAKE RESERVOIRS MOUNTED PERPENDICULAR TO OUTSIDE RAIL RHS JUST FORWARD OF REAR SUSPENSION.	X	
460-079	STEEL AIR BRAKE RESERVOIRS MOUNTED PERPENDICULAR TO OUTSIDE RAIL LHS JUST FORWARD OF REAR SUSPENSION.	X	
460-082	STEEL AIR BRAKE RESERVOIRS MOUNTED INSIDE RAIL AND UNDER BATTERY BOX	X	
460-083	ALUMINUM AIR BRAKE RESERVOIRS MOUNTED INSIDE RAIL AND UNDER BATTERY BOX	X	
460-084	ALUMINUM AIR TANKS MOUNTED AFT INSIDE AND/OR BELOW FRAME JUST FORWARD OF REAR SUSPENSION	X	
460-087	CRN REGISTERED STEEL AIR TANKS INSIDE RAIL PREFERRED; OTHERS BELOW RAIL WITH HEAVY DUTY BRACKETS	X	X
460-090	STEEL AIR BRAKE RESERVOIRS, NO TRIPLE OR TORPEDO TANKS	X	
460-091	ALUMINUM AIR BRAKE RESERVOIRS, NO TRIPLE OR TORPEDO TANKS	X	
460-093	STEEL AIR BRAKE RESERVOIRS; CUSTOMER ACCEPTS TANKS MOUNTED PERPENDICULAR TO RAIL	X	
460-094	ALUMINUM AIR BRAKE RESERVOIRS; CUSTOMER ACCEPTS TANKS MOUNTED PERPENDICULAR TO RAIL	X	
460-095	STEEL AIR BRAKE RESERVOIRS MOUNTED PERPENDICULAR RH UNDER CAB	X	
460-096	ALUMINUM AIR BRAKE RESERVOIRS MOUNTED PERPENDICULAR RH UNDER CAB	X	
460-097	STEEL AIR BRAKE RESERVOIRS MOUNTED PERPENDICULAR RH UNDER CAB AND AFT AS POSSIBLE FOR REMAINING TANKS	X	
460-098	ALUMINUM AIR BRAKE RESERVOIRS MOUNTED PERPENDICULAR RH UNDER CAB AND AFT AS POSSIBLE FOR REMAINING TANKS	X	
460-1AE	STEEL AIR TANKS MOUNTED FOR MAX GROUND CLEARANCE, (BELLY PLOW - AA3-073)	X	
460-1AF	ALUMINUM AIR TANKS MOUNTED FOR MAX GROUND CLEARANCE, (BELLY PLOW - AA3-073)	X	
460-1AG	ALUMINUM AIR BRAKE RESERVOIRS MOUNTED PERPENDICULAR TO OUTSIDE RAIL	X	X
460-1AH	STEEL AIR BRAKE RESERVOIRS MOUNTED INSIDE RAIL WITH NO OUTBOARD BRACKETS	X	
460-1AJ	STEEL AIR BRAKE RESERVOIRS MOUNTED PERPENDICULAR RH UNDER CAB AND INSIDE RAIL FOR REMAINING TANKS	X	
460-1AK	ALUMINUM AIR BRAKE RESERVOIRS MOUNTED PERPENDICULAR RH UNDER CAB AND INSIDE RAIL FOR REMAINING TANKS	X	
460-1AM	STEEL AIR BRAKE RESERVOIRS MOUNTED INSIDE RAIL; CUSTOMER ACCEPTS TANKS MOUNTED IN REAR OVERHANG/REAR SUSPENSION	X	
460-1AN	ALUMINUM AIR BRAKE RESERVOIRS MOUNTED INSIDE RAIL WITH NO OUTBOARD BRACKETS	X	

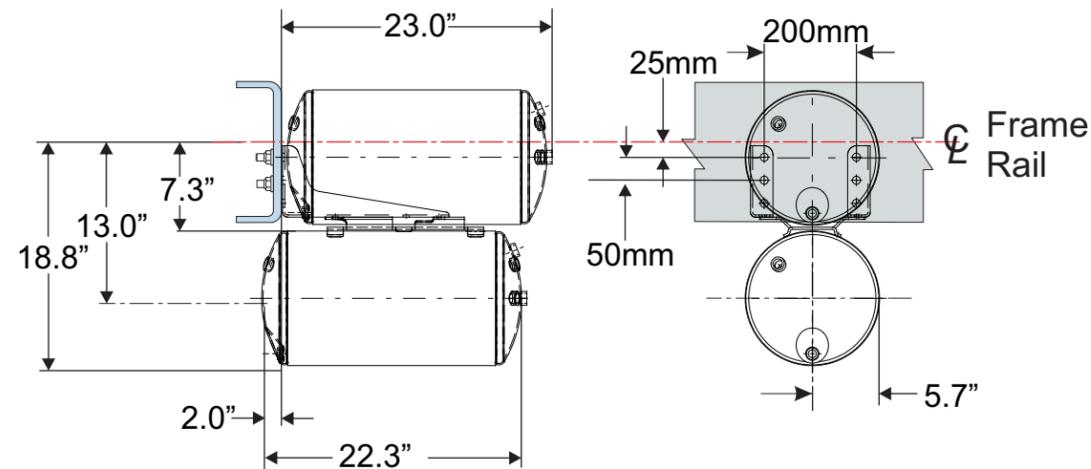
WST Chassis Air Tanks - 4800/4900/6900

Tank Volume	Dim A
900	14.25
1750	26.5
2000	30
2770	41
2770/900 comb	42.46

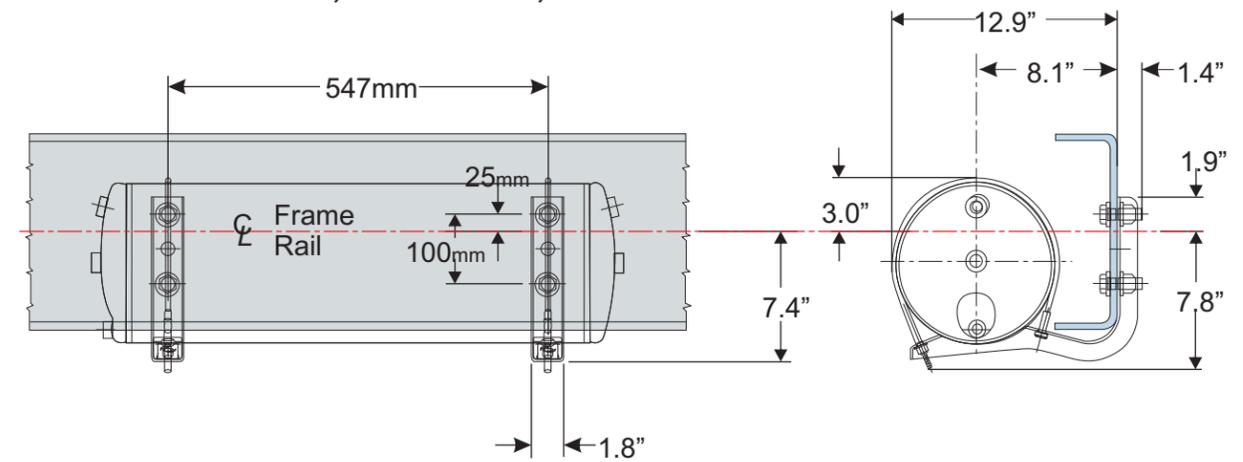


Option	Description
460-001	Steel air brake reservoirs
460-007	Aluminum air brake reservoirs
460-008	Steel air brake reservoirs mounted inside rail
460-014	Steel air tanks mounted below frame rails
460-031	Aluminum air brake reservoirs and steel bw ad-is (drm) air reservoir
460-032	Steel air brake reservoirs mounted at least 40" aft of cab inside or below rails
460-058	Steel air tanks mounted aft inside and/or below frame just forward of rear suspension
460-096	Aluminum air brake reservoirs mounted perpendicular RH under cab
460-095	Steel air brake reservoirs mounted perpendicular RH under cab

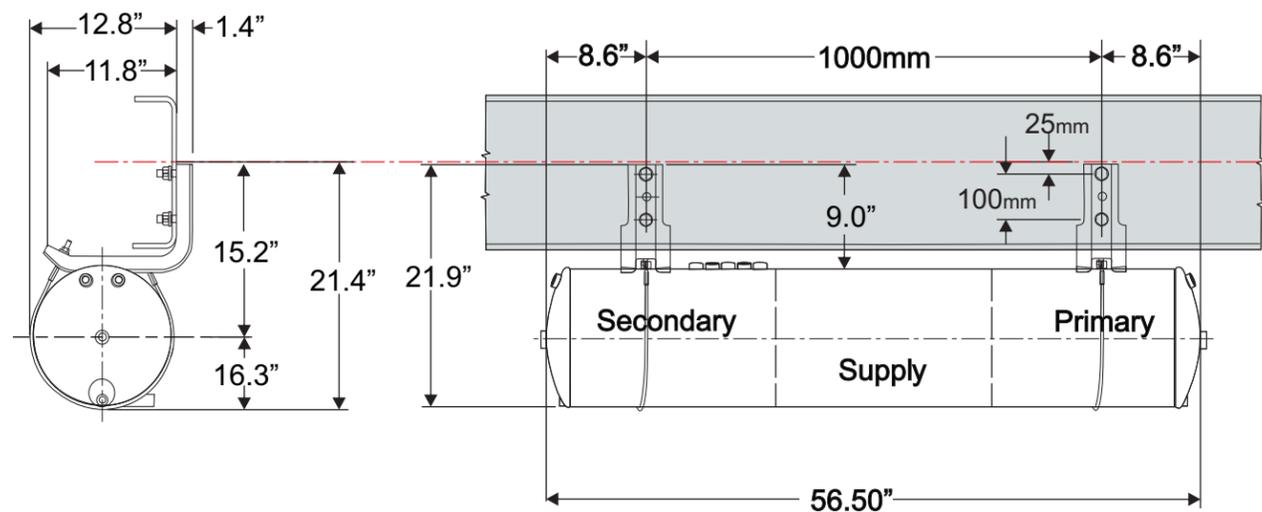
Perpendicular tanks under cab RH



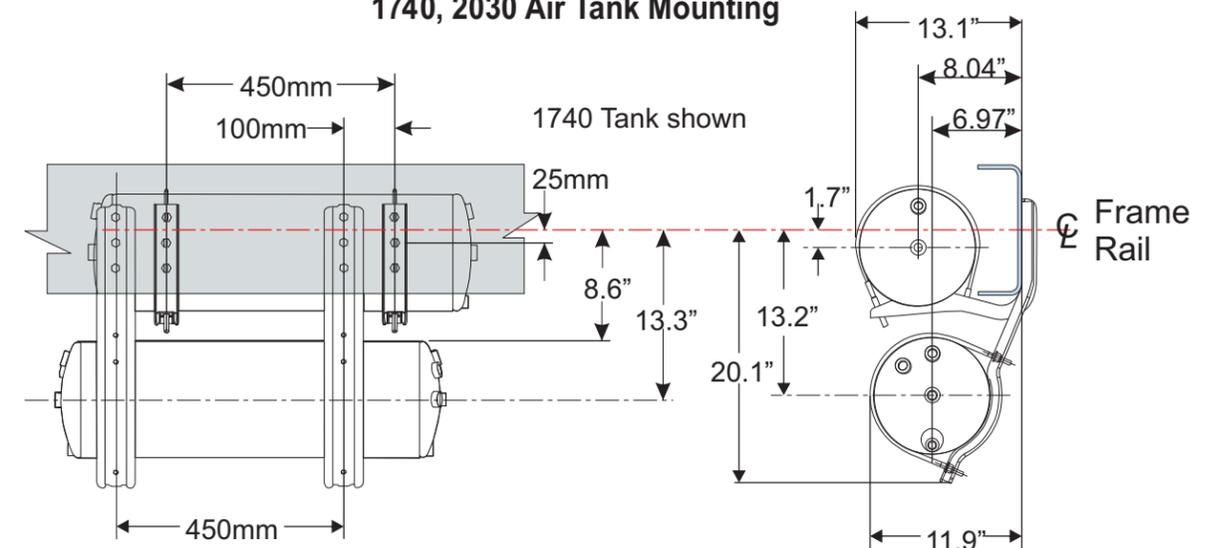
1350, 1740 Air Tank, Mounted Inside Rail



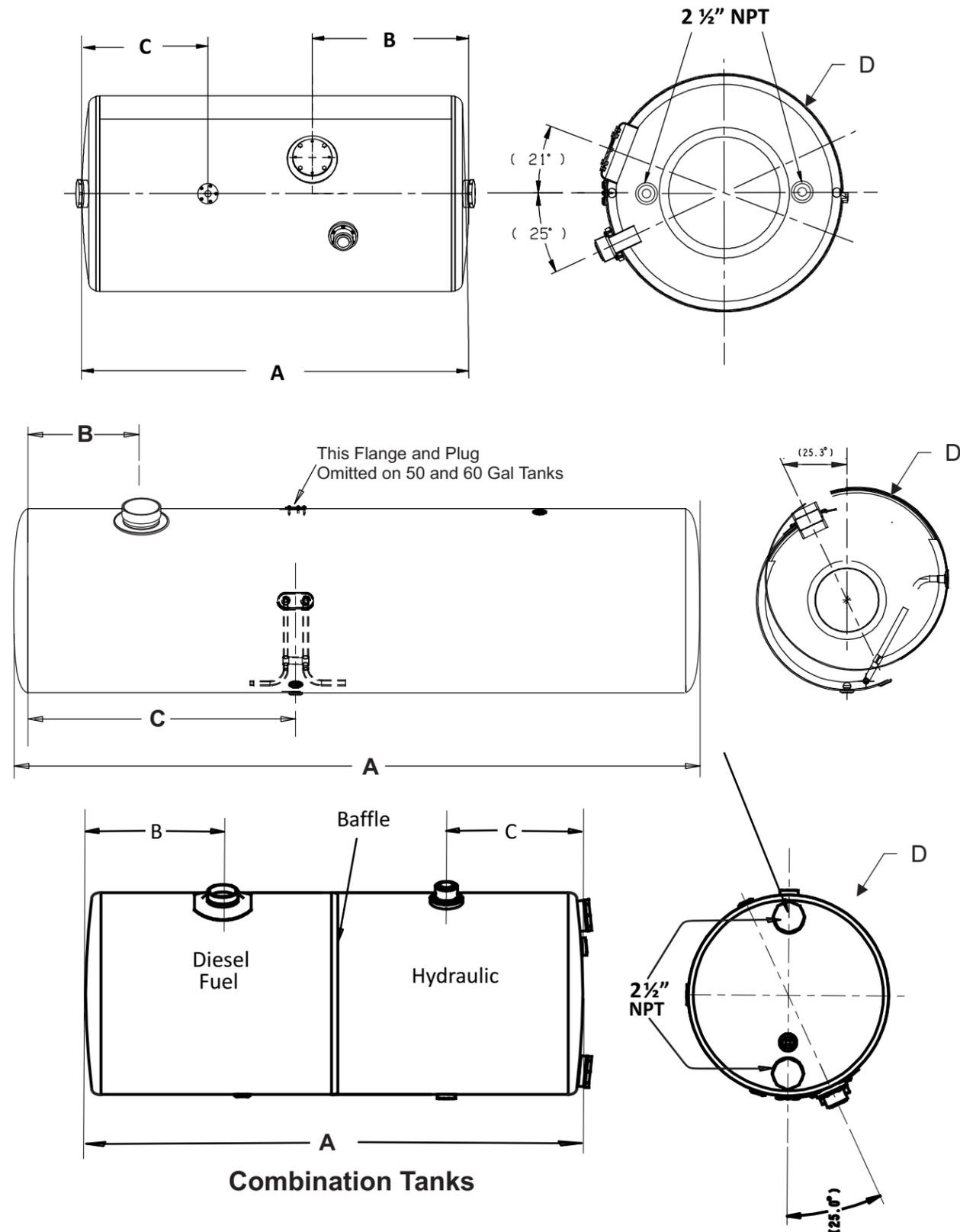
1740, 2030 Air Tank Mounting
5900 Air Tank Triple, 12", Below Rail.



1740, 2030 Air Tank Mounting



Fuel/Hydraulic Tanks - 4700/4800/4900/6900



Hydraulic Tanks						
	Data Code	Dimension	A	B	C	D
23" Diameter 218-001	203-032	50 Gallon	30.0"	15.75"	15.75"	23"
	203-034	60 Gallon	35.5"	15.75"	15.75"	23"
	203-061	80 Gallon	46.5"	19.75"	15.75"	23"
	203-059	100 Gallon	58.0"	19.75"	15.75"	23"
25" Diameter 218-006	203-034	60 Gallon	30.5"	16.25"	16.25"	25"
	203-061	80 Gallon	40.0"	16.25"	16.25"	25"
	203-059	100 Gallon	50.0"	20.25"	16.25"	25"

Fuel Tanks						
	Data Code	Dimension	A	B	C	D
23" Diameter 218-001	204/206-150	50 Gallon	30.0"	15.75"	15.00"	23"
	204/206-151	60 Gallon	35.5"	15.75"	17.75"	23"
	204/206-154	80 Gallon	46.5"	15.75"	17.75"	23"
	204/206-156	100 Gallon	58.0"	19.75"	17.75"	23"
	204/206-158	120 Gallon	69.0"	19.75"	17.75"	23"
	204/206-162	150 Gallon	86.0"	15.75"	17.75"	23"
25" Diameter 218-006	204/206-151	60 Gallon	30.5"	15.25"	15.25"	25"
	204/206-154	80 Gallon	40.0"	17.25"	20.25"	25"
	204/206-156	100 Gallon	50.0"	17.25"	20.25"	25"
	204/206-165	125 Gallon	61.5"	17.25"	20.25"	25"
	204/206-162	150 Gallon	73.0"	19.25"	20.25"	25"

Fuel/Hydraulic Split-Tanks						
	Data Code	Gallons Fuel / Hydraulic	A	B	C	D
23" Diameter 218-001	204/206-009	50/50	57.20"	16.25"	16.25"	23.0"
	204/206-170	60/60	68.20"	16.25"	16.25"	23.0"
	204/206-204	80/70	86.20"	16.25"	16.25"	23.0"
	204/206-051	90/30	69.20"	16.25"	16.25"	23.0"
25" Diameter 218-006	204/206-044	40/40	40.10"	17.25"	16.25"	25.0"
	204/206-045	40/60	52.6"	17.25"	16.25"	25.0"
	204/206-042	60/40	49.60"	17.25"	16.25"	25.0"
	204/206-203	60/65	62.1"	17.25"	16.25"	25.0"
	204/206-204	80/70	71.6"	19.50"	16.25"	25.0"

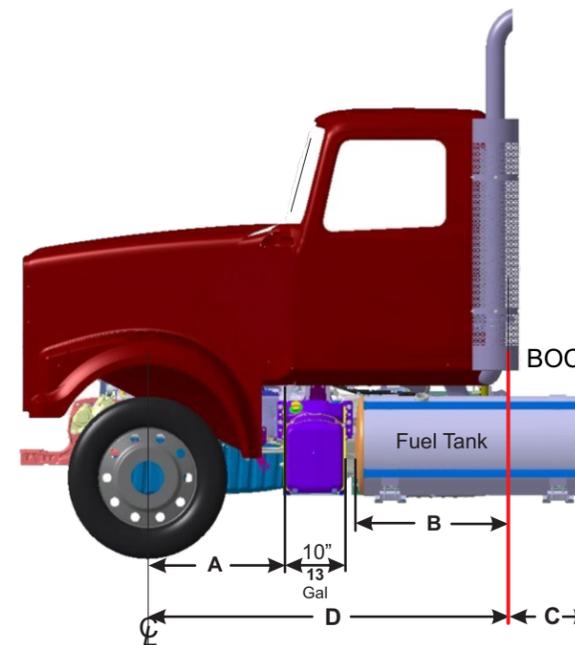
4800/4900 SF/SB DEF & Fuel Tank Locations

4800/4900

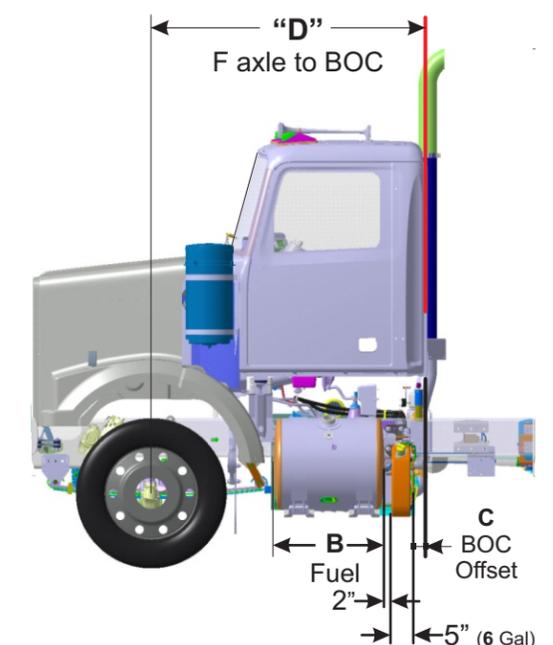
Diesel Exhaust Fluid (DEF) / Fuel Tank Configurations:

WST Chassis DEF Tanks are offered in 3 sizes to comply with EPA guidelines. DEF tanks are to be filled no less than once every 2.3 fuel tank fills. Tanks 100 gallons and less can use the 6 gallon DEF tank configuration. Larger tanks require the 13 and 23 Gallon configurations. Larger DEF tanks can also be ordered for small tanks if customers want to incorporate DEF refills into monthly maintenance programs.

13 Gal/23Gal DEF Tanks

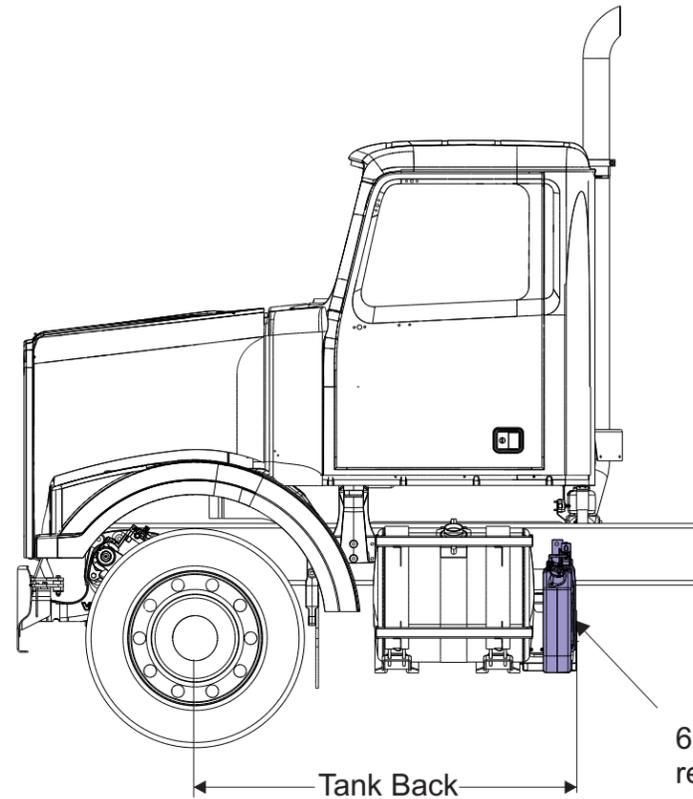


6 Gal DEF Tank

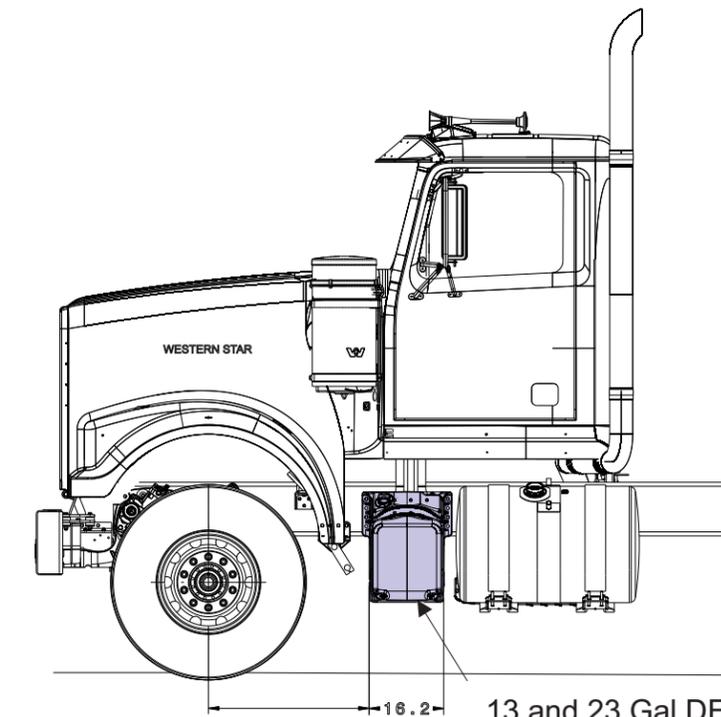


DEF Tank Size	Fuel Tank Dia	Fuel Tank Volume	Model	4800SB	4800SF	4900SB	4900SF	4900EX
			BBC	109	109	123	123	132
			B (Fuel)	C (BOC Protrusion)				
23 Gallon DEF	23"	50 G	30.00	24.60	9.00	12.10	-6.30	N/A
23 Gallon DEF	23"	60 G	35.50	30.10	14.50	17.60	-0.80	N/A
23 Gallon DEF	23"	80 G	46.50	41.10	25.50	28.60	10.20	N/A
23 Gallon DEF	23"	100 G	58.00	52.60	37.00	40.10	21.70	N/A
23 Gallon DEF	23"	120 G	58.00	74.00	68.50	56.00	37.80	36.50
23 Gallon DEF	23"	150 G	86.00	80.60	65.00	68.10	49.70	N/A
23 Gallon DEF	25"	60 G	30.50	25.10	9.50	12.60	-5.80	-7.10
23 Gallon DEF	25"	80 G	40.00	34.60	19.00	22.10	3.70	2.40
23 Gallon DEF	25"	100 G	50.00	44.60	29.00	32.10	13.70	12.40
23 Gallon DEF	25"	125 G	61.50	56.10	40.50	43.60	25.20	23.90
23 Gallon DEF	25"	150 G	73.00	67.60	52.00	55.10	36.70	35.40
13 Gallon DEF	25"	60 G	30.50	19.00	3.40	6.50	N/A	N/A
13 Gallon DEF	25"	80 G	40.00	28.50	12.90	16.00	N/A	N/A
13 Gallon DEF	25"	100 G	50.00	38.50	22.90	26.00	N/A	N/A
13 Gallon DEF	25"	125 G	61.50	50.00	34.40	37.50	N/A	N/A
13 Gallon DEF	25"	150 G	73.00	61.50	45.90	49.00	N/A	N/A
6 Gallon DEF	25"	60 G	30.50	12.60	-3.20	2.10	N/A	N/A
6 Gallon DEF	25"	80 G	40.00	24.10	7.30	12.50	N/A	N/A
6 Gallon DEF	25"	100 G	50.00	34.10	17.30	22.50	N/A	N/A

A and D Dimensions		4900SF 109	4900SB 109	4900SF 123	4900SB 123	4900SF 132
Front Axle to Frame "0"	Dim	31"	48"	31"	48"	31"
23 and 13 Gal DEF	A	36.4"	35.0"	35.1"	36.5"	42.6"
Center Fwd axle to BOC	D	75.5"	58.5"	89.5"	72.5"	98.3"

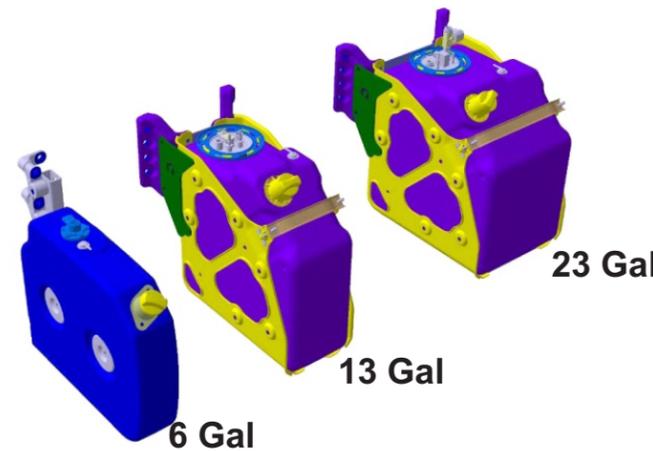


6 Gal DEF tanks mount rear of Fuel tanks



13 and 23 Gal DEF tanks mount forward of fuel tanks in all configurations

13 and 23 Gal DEF Tank Location (Forward Mount only)						
Model	BBC	Application	Set Back Dimension from Station "0"	Fwd Face Loc'n From Center Line Front Axle	DEF Tank Aft Face 13 Gallon	DEF Tank Aft Face 23 Gallon
4900SB	123"	Tandem Steer	48"	109.4"	-	128.1"
6900XD	141"	XD	48"	41.0"	-	59.6"
4900EX	132"	"EX" LowMax	31"	76.5"	-	95.1"
4900SF	123"	"SF" LowMax	31"	67.8"	-	86.4"
4900EX	132"	EX	31"	41.8"	-	60.5"
4900SB	123"	SB	48"	35.7"	48.5"	54.4"
4900SF	123"	SF	31"	34.3"	-	52.9"
4900SB	109"	SB	48"	34.2"	47.0"	52.9"
4900SF	109"	SF	31"	35.6"	48.3"	54.2"

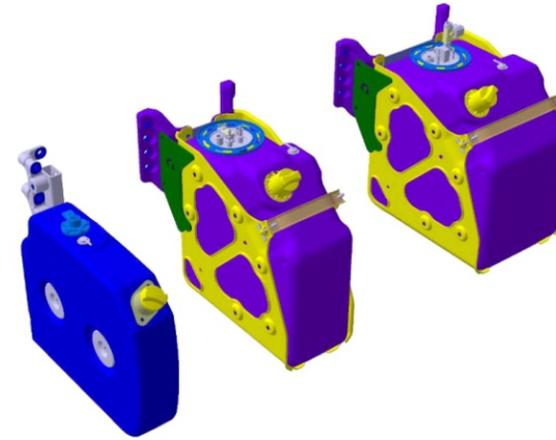


DEF Tank Size	Maximum Fuel Cap
6 gal	100 gal
13 gal	200 gal
23 gal	300 gal

6 Gal DEF Tank Aft Location (Rear Mount Only)					
Model	BBC	Set Back Dim'n from Station "0" (inches)	Rear Face Loc'n From Center Line Front Axle (inches)	Fuel Tank Dia	Fuel Tank Gallons
4900SB	123"	48	74.64"	25"	60 G
4900SB	123"	48	85.04"	25"	80 G
4900SB	123"	48	95.04"	25"	100 G
4800SF	109"	31	73.34"	25"	60G
4800SF	109"	31	82.84"	25"	80 G
4800SF	109"	31	92.84"	25"	100 G
4800SB	109"	48	71.14"	25"	60 G
4800SB	109"	48	82.64"	25"	80G
4800SB	109"	48	92.64"	25"	100 G

4700 DEF Tank Configurations

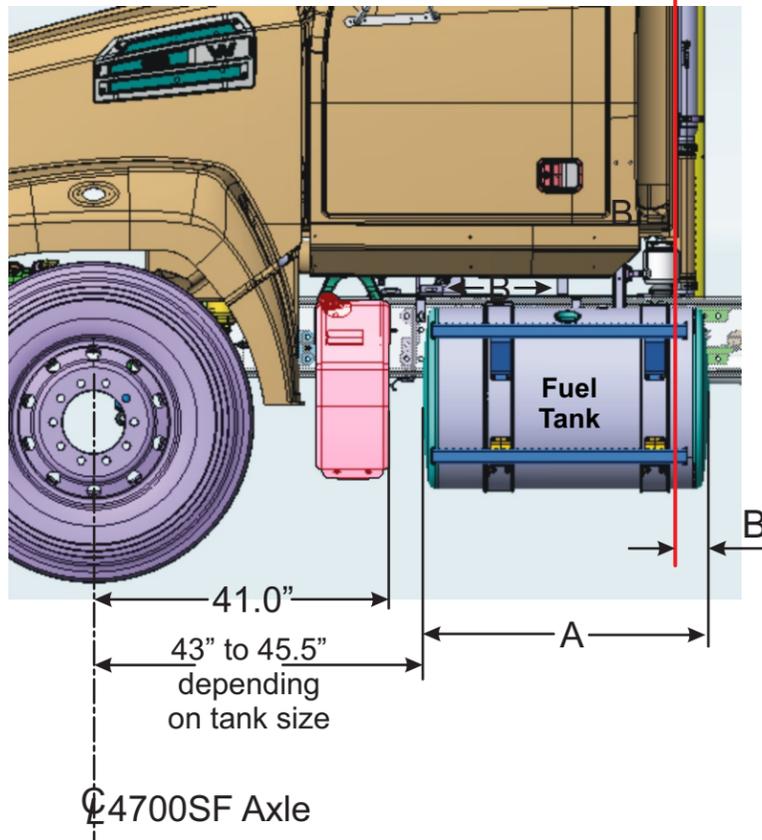
4700 DEF Tanks are also offered in 3 sizes to comply with EPA guidelines. DEF tanks are to be filled no less than once every 2.3 fuel tank fills. Tanks 100 gallons and less can use the 6 gallon DEF tank configuration. Larger fuel volumes require the 13 Gallon configuration. Larger DEF tanks can also be ordered for small tanks if customers want to incorporate DEF refills into monthly maintenance programs. Please contact your CAE representative for more information on the 23 gallon DEF tank.



DEF Tank Size	Maximum Fuel Cap
6 gal	100 gal
13 gal	200 gal
23 gal	300 gal

4700 SF
13 Gal DEF Forward

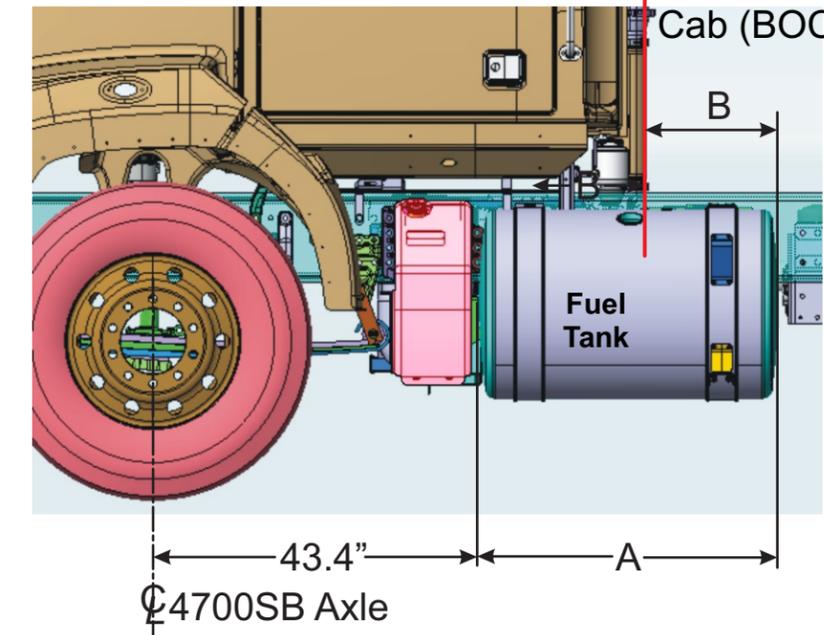
Back of Cab (BOC)



Model	DEF Tank Size	Fuel Tank Dia	Fuel Tank Volume	A (Fuel)	B (BOC Protrusion)
4700 SF	13 Gal Def Forward of Fuel	25" Diameter	60 G	30.5"	-5.18"
			80 G	40.0"	4.3"
			100 G	50.0"	11.8"
		23" Diameter	50 G	30.0"	-5.7"
			60 G	35.5"	-0.0"
			80 G	46.5"	7.3"
4700 SB	13 Gal Def Forward of Fuel	25" Diameter	60 G	30.5"	10.65"
			80 G	40.0"	20.1"
			100 G	50.0"	30.1"
		23" Diameter	50 G	30.0"	10.1"
			60 G	35.5"	15.6"
			80 G	46.5"	26.6"
			100 G	58.0"	29.14"

4700 SB
13 Gal DEF Forward

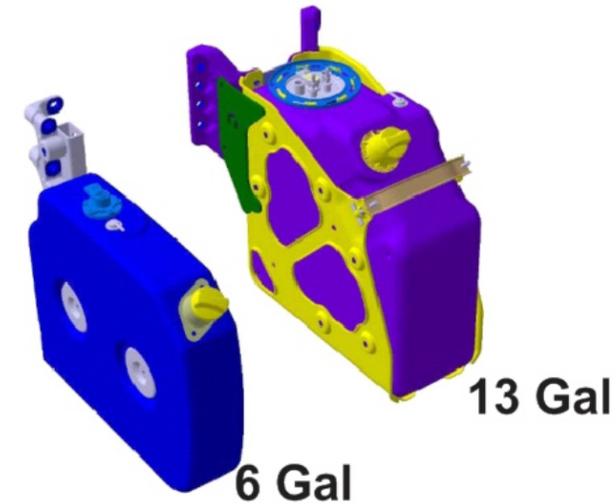
Back of Cab (BOC)



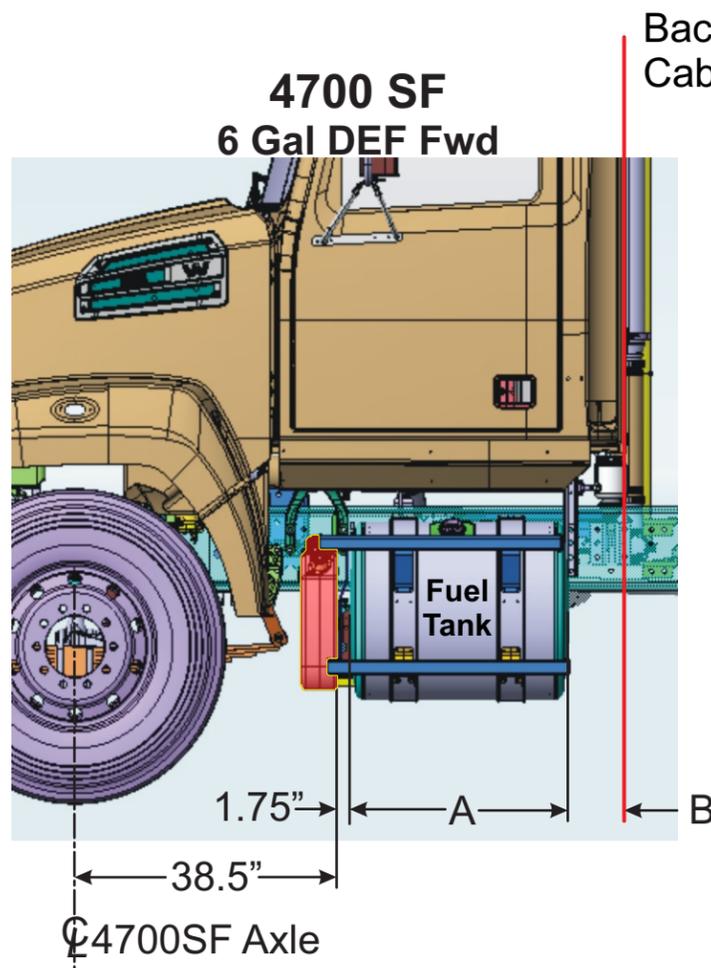
4700 SF/SB 6 Gallon DEF Tank Locations

4700 DEF Tank Configurations

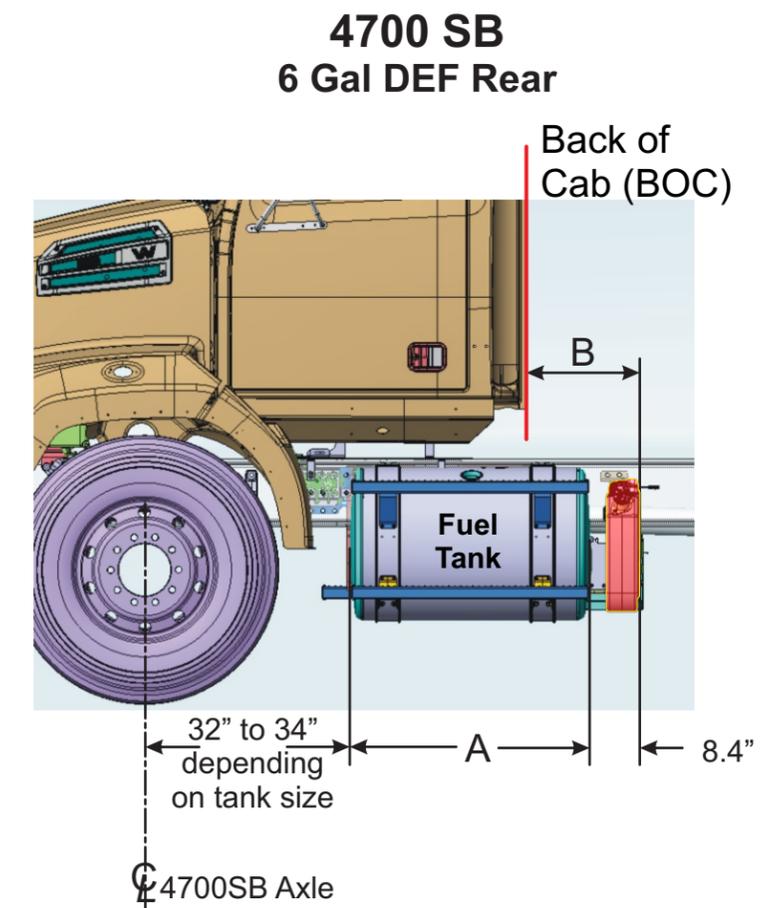
4700 DEF Tanks are also offered in 3 sizes to comply with EPA guidelines. DEF tanks are to be filled no less than once every 2.3 fuel tank fills. Tanks 100 gallons and less can use the 6 gallon DEF tank configuration. Larger fuel volumes require the 13 Gallon configuration. Larger DEF tanks can also be ordered for small tanks if customers want to incorporate DEF refills into monthly maintenance programs. Please contact your CAE representative for more information on the 23 gallon DEF tank.



DEF Tank Size	Maximum Fuel Cap
6 gal	100 gal
13 gal	200 gal



Model	DEF Tank Size	Fuel Tank Dia	Fuel Tank Volume	A (Fuel)	B (BOC Protrusion)
4700 SF	6 Gal Def Forward of Fuel	25" Diameter	60 G	30.5"	-12.8"
			80 G	40.0"	-2.7"
			100 G	50.0"	7.3"
		23" Diameter	50 G	30.0"	-12.7"
			60 G	35.5"	-7.2"
			80 G	46.5"	3.8"
4700 SB	6 Gal Def Rear of Fuel	25" Diameter	60 G	30.5"	9.5"
			80 G	40.0"	19.0"
			100 G	50.0"	29.0"
		23" Diameter	50 G	30.0"	9.0"
			60 G	35.5"	14.5"
			80 G	46.5"	25.5"
			100 G	58.0"	37.0"



43X-008 - LH temporarily mounted diesel exhaust fluid tank aft back of cab with maximum approved length def lines coiled at def tank.

This option provides the maximum length coolant lines and electrical Harness coiled in the frame with the DEF tank mounted rear of the fuel tank. This location provides the maximum forward position for fuel and maximum frame space rear of the cab. For more frame space the coiled DEF lines allow easy relocation of DEF tank into body or rear on frame to clear components. Consult the Exhaust modifications for DEF placement height and distance requirements.

Max Length DEF Tank Harness ref Installation drawings in Mod 43V

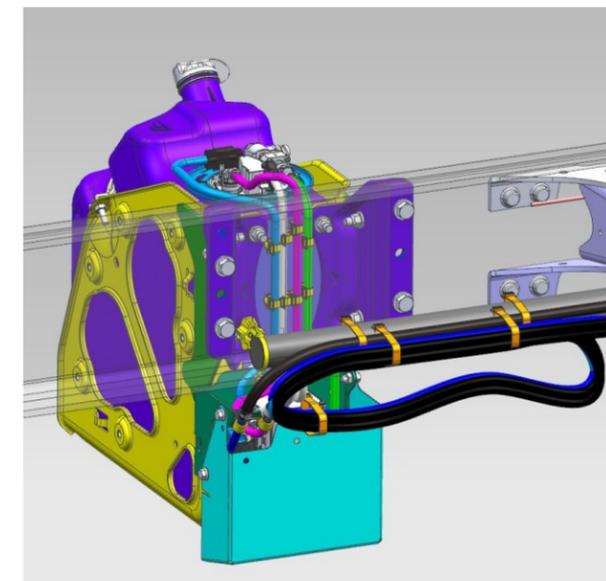
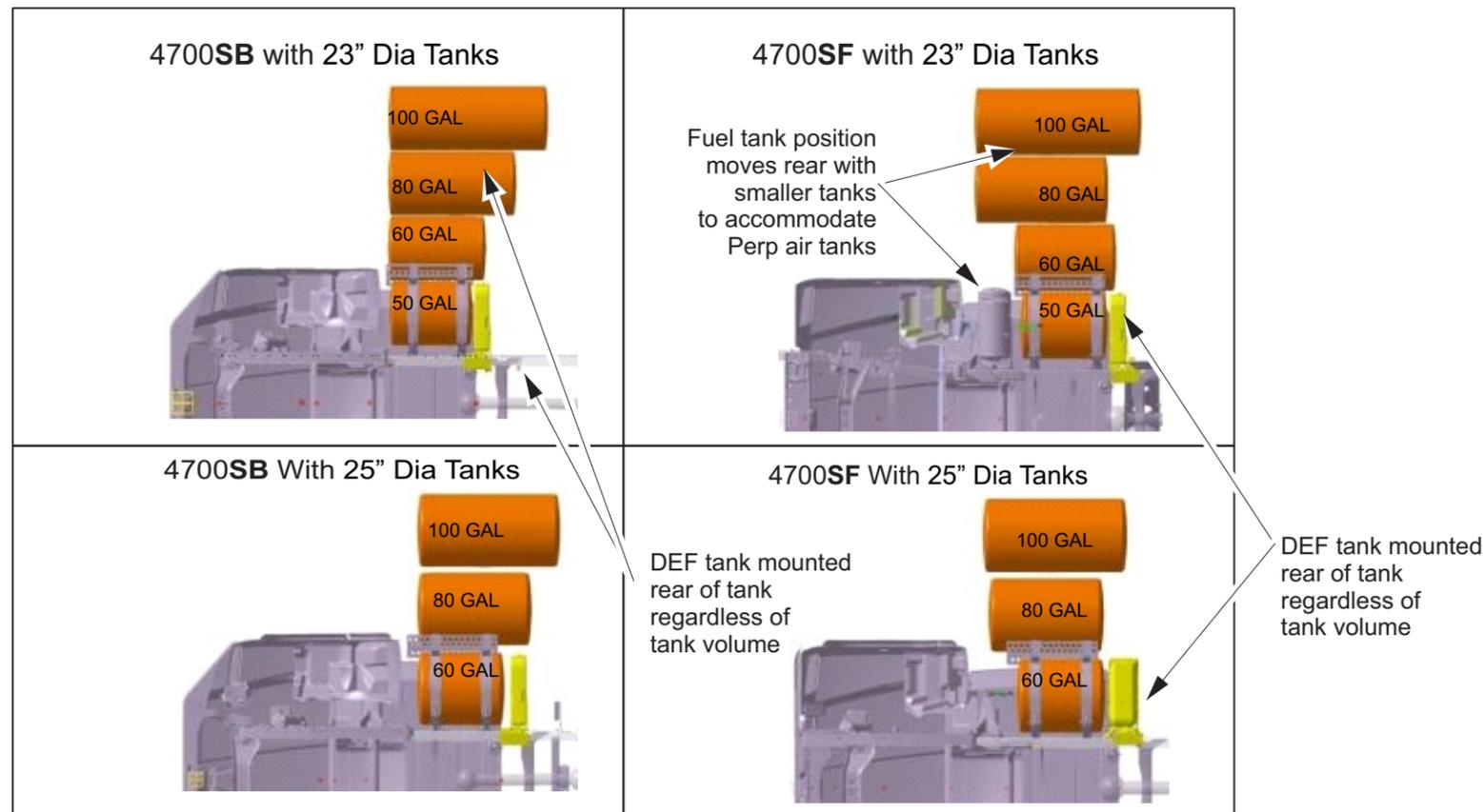
Detroit: PN# A66-03952-170 - DD13 HARN-ATS-JMPR,13+23G,5HTR

Cummins: PN# A66-01198-290 - ISL HARN-ATS,DEF TANK,STD

Max Length DEF Tank Hose Lines ref Installation drawings in Mod 43W

PN# 48-25927-002 - BLUE,5/8"NCM,.94"OD EXCESS COILED @ DEF TANK

PN# 48-25927-003 - RED,5/8"NCM,.94"OD EXCESS COILED @ DEF TANK

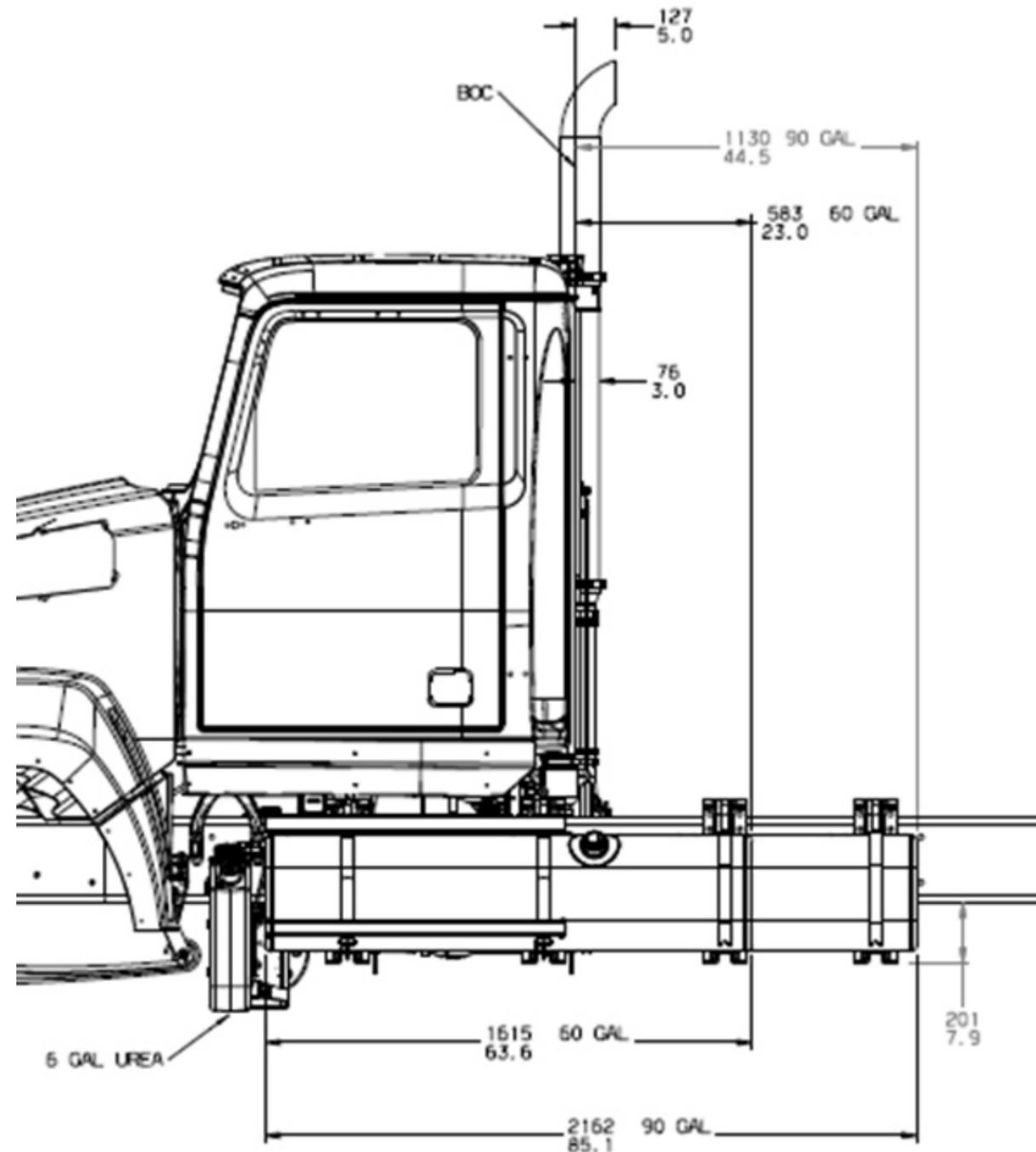
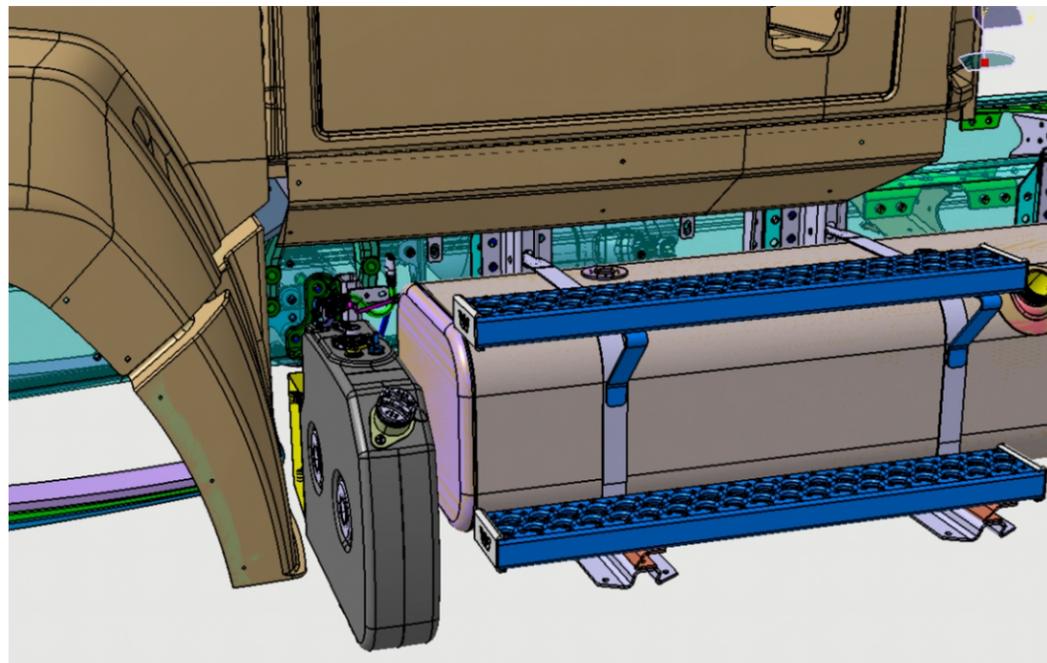


The truck comes equipped with max length DEF lines and harness to accommodate easy repositioning of DEF Tank

4700 Rectangular Fuel Tanks (Snow Plow Only)

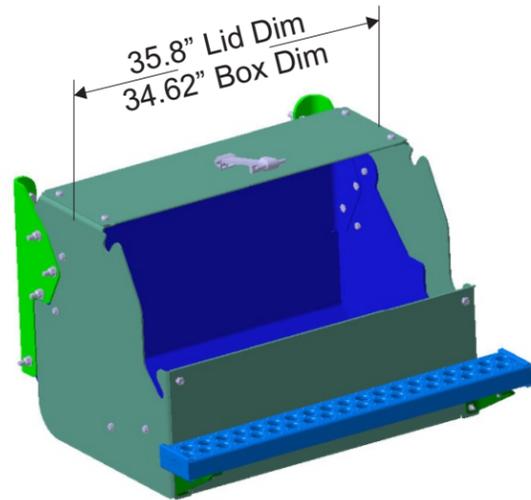
RECTANGULAR ALUMINUM FUEL TANK - LH		
Tank	60 Gal/227 Liter	90 Gal/340 Liter
Depth	18.5"	18.5"
Height	14.8"	14.8"
Length	63.6"	85.1"

6 Gallon FWD Mounted DEF with a 90 Gallon fuel tank on a 4700SF.
Also available with a 13 Gallon DEF tank.



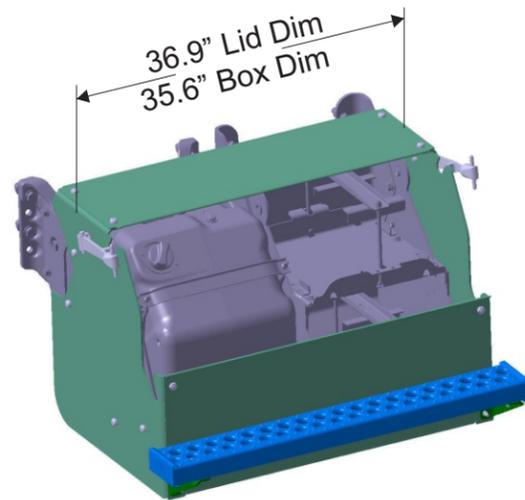
Note: Rectangular fuel tanks are not available on 4700SB with a DD 13 engine for Snow Plow configurations.

2010 EPA - 48/49/69 Batt/Tool Box Configs

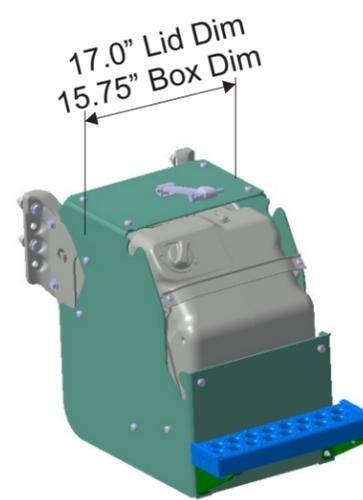


BATT/TOOL BOX

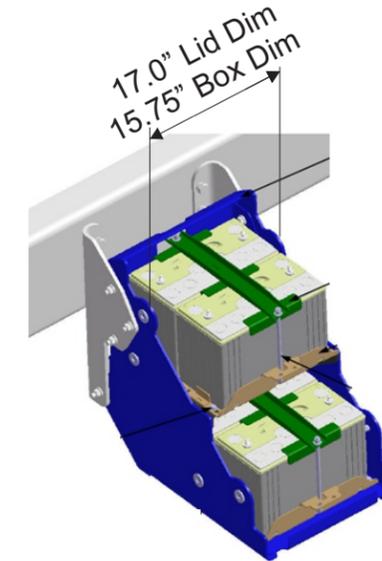
602-074 STACK LONG TOOL BOX



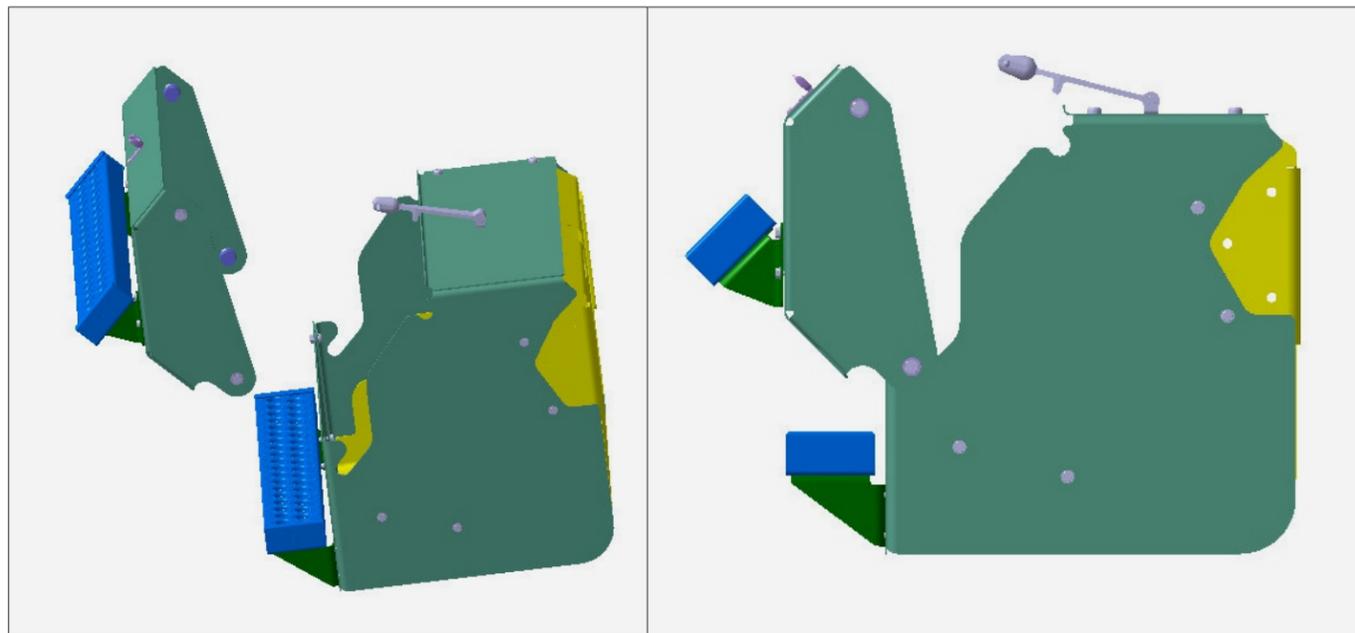
COMBO BOX



DEF TANK



602-073 STACK TOOL BOX



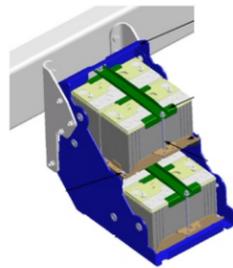
Bat/Tool/Def Tank Box Lid Mounting



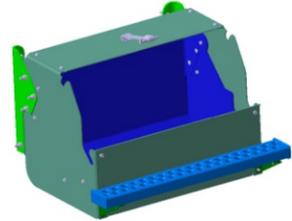
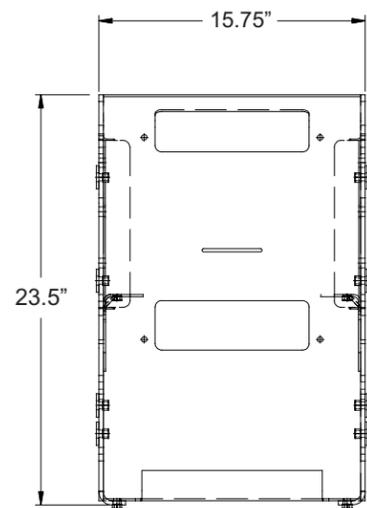
DEF TANK BATT/TOOL BOX



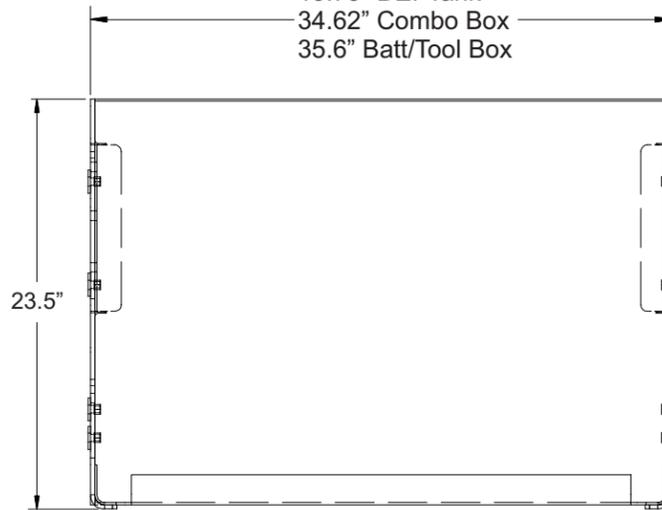
COMBO BOX



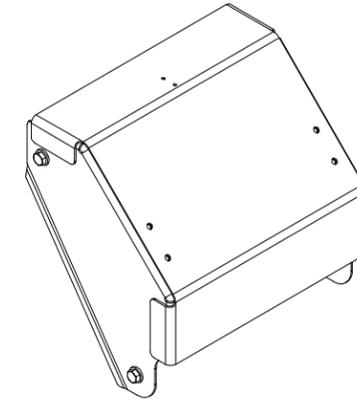
Stacked
Battery/Tool Box



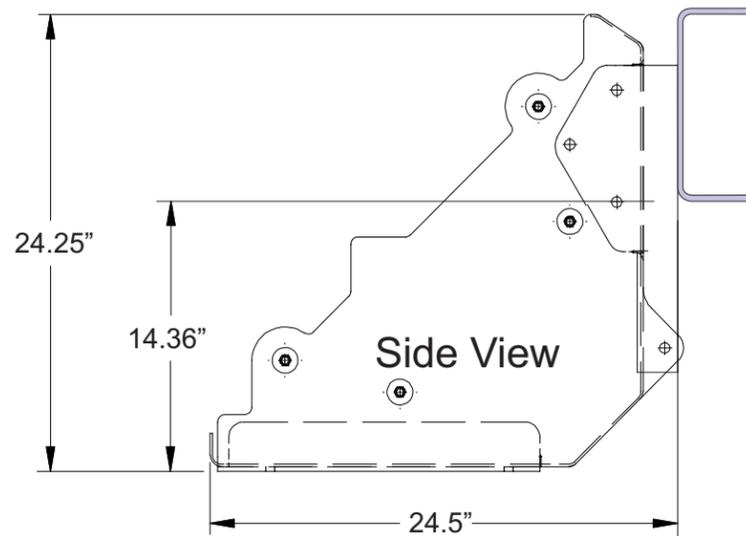
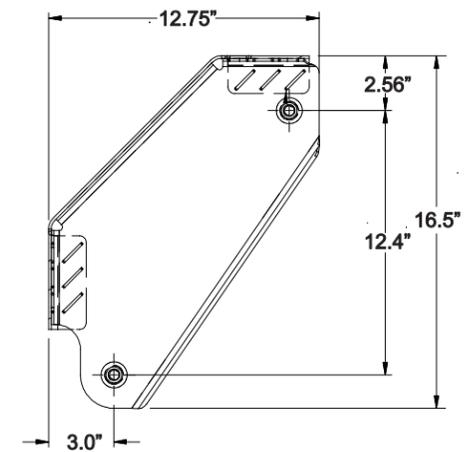
15.75" DEFTank
34.62" Combo Box
35.6" Batt/Tool Box



Top View

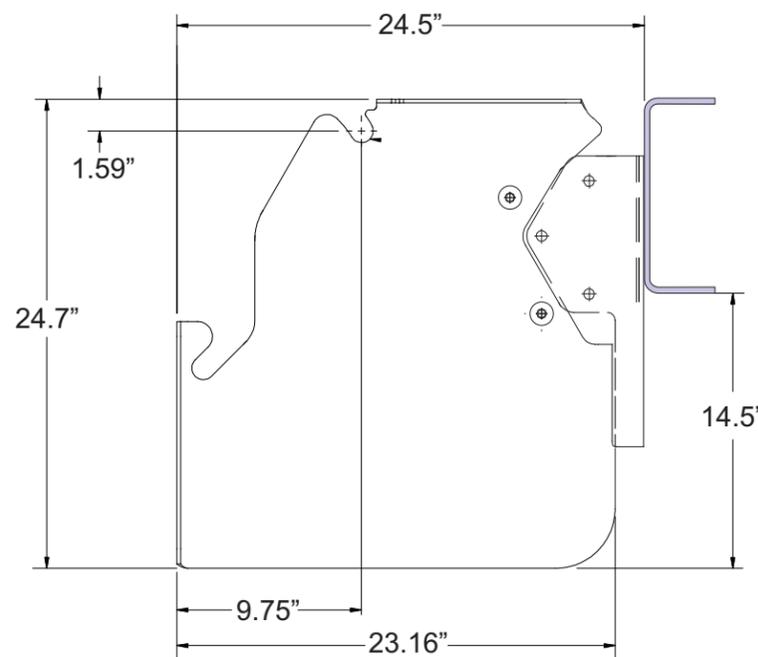


Box Cover

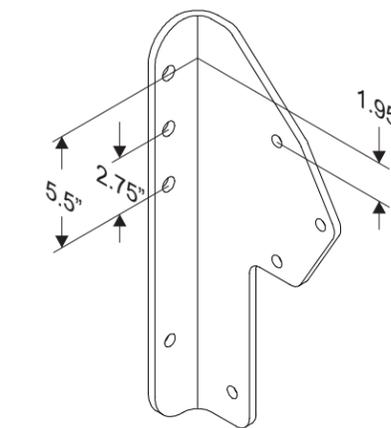


Side View

Long Stacked Battery Box



Side View



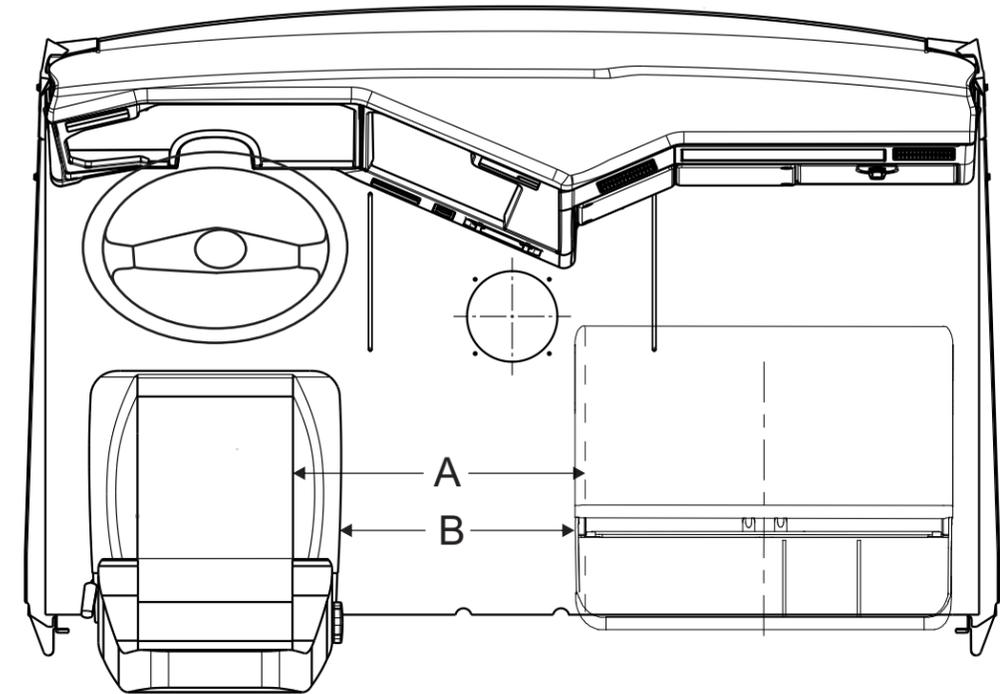
Battery Box Frame Bracket

4700/4800/4900/6900 In Cab Battery Box

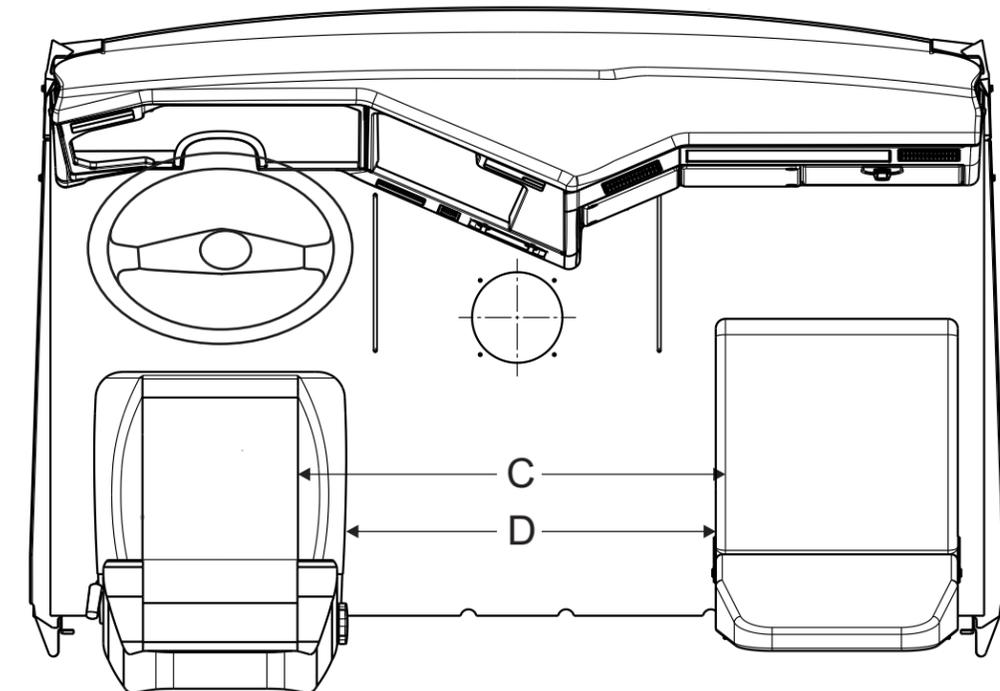
290-1AC Single and Double Person Box Mounting

282-083/760-038 Two Person Battery Box Seat		
	Description	Dimension
A	Between Seat Base	21"
B	Between Seat Cushions - Bostrom	15"
	Between Seat Cushions - National	14"

282-083/760-294 One Person Battery Box Seat		
	Description	Dimension
C	Between Seat Base	34.7"
D	Between Seat Cushions - Bostrom	27.5"
	Between Seat Cushions - National	28.5"



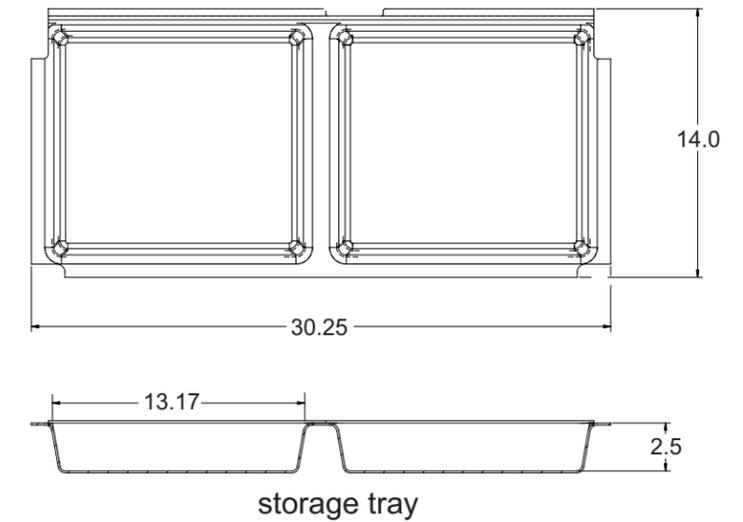
290-1AC
2 Person Seat (4) Batteries



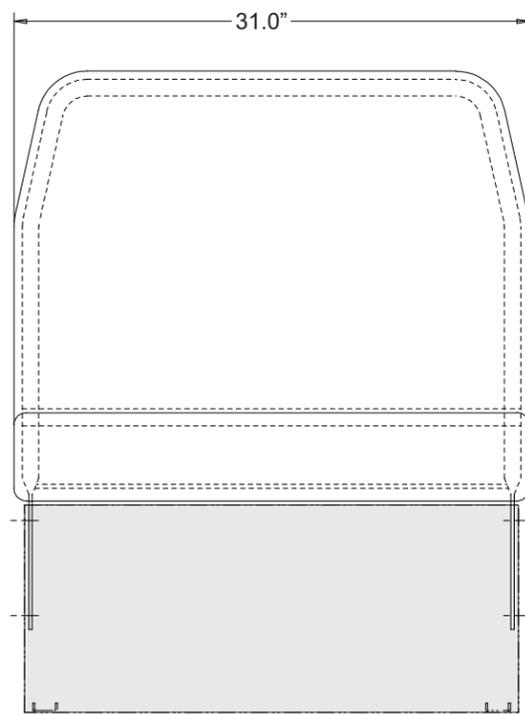
1 Person Seat (3) Batteries

4700/4800/4900/6900 In Cab Battery Box

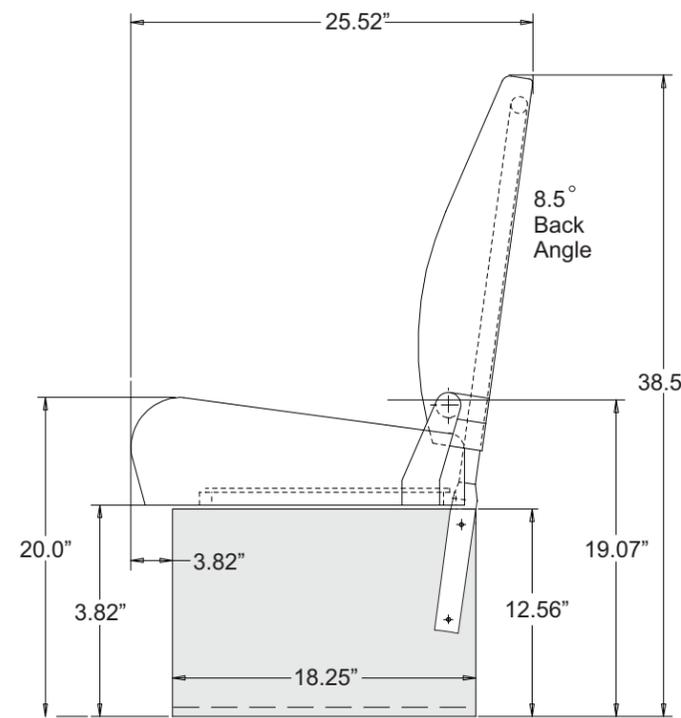
2 Person Passenger seat battery box vented to outside of cab



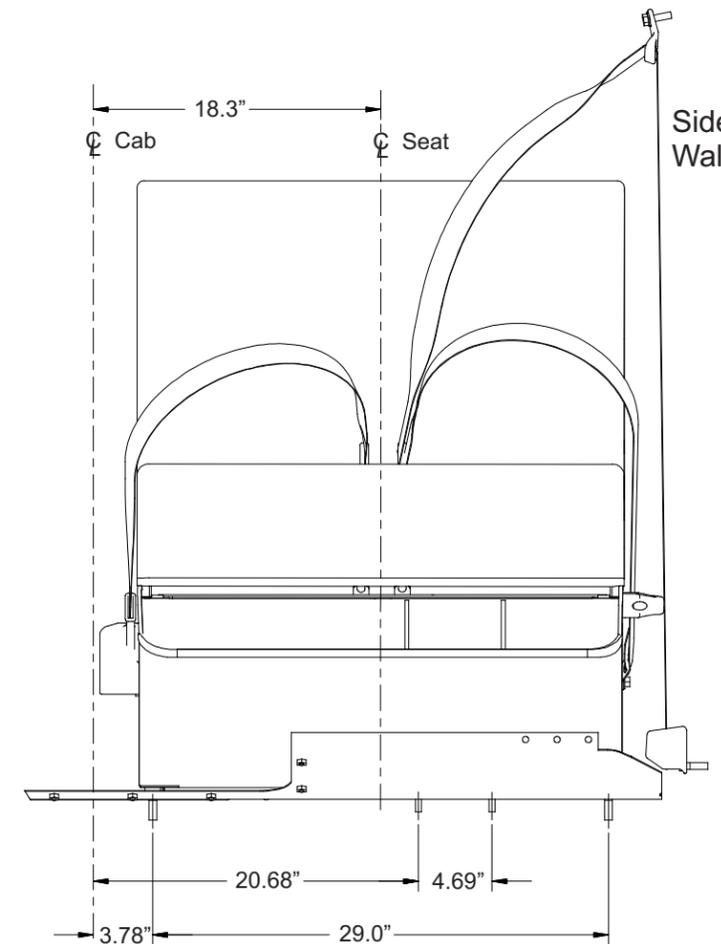
WST's two man seating option with in cab batteries provides extra storage and seating for 3 people comfortably while at the same time offering clear frame space and ample room for in cab controls.



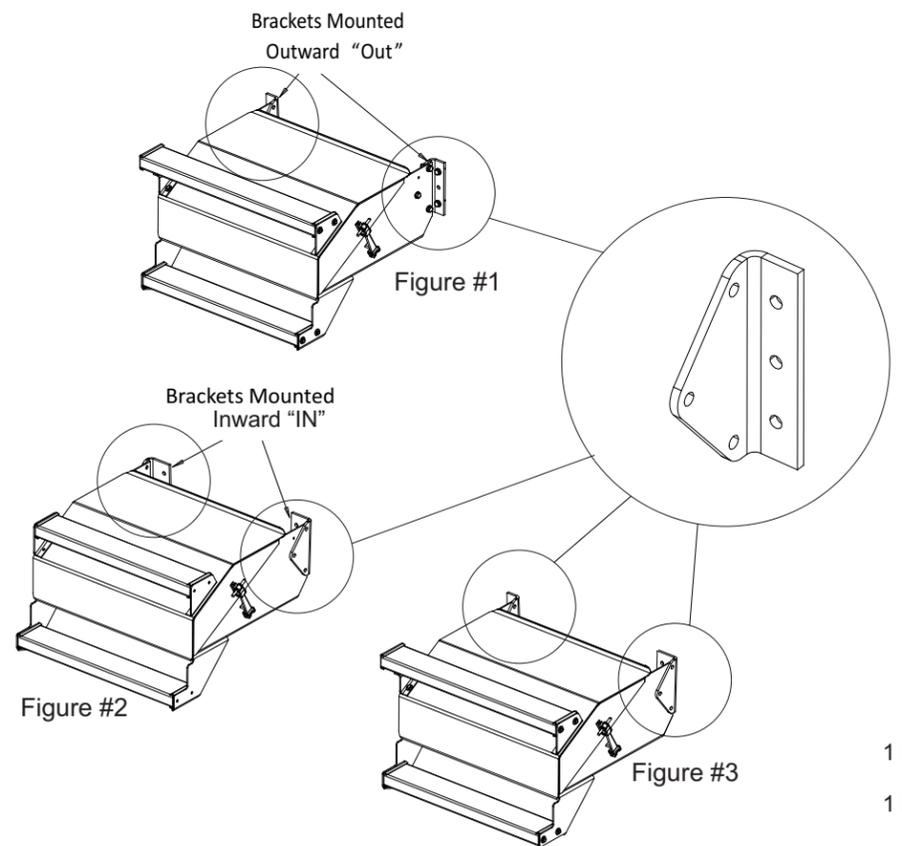
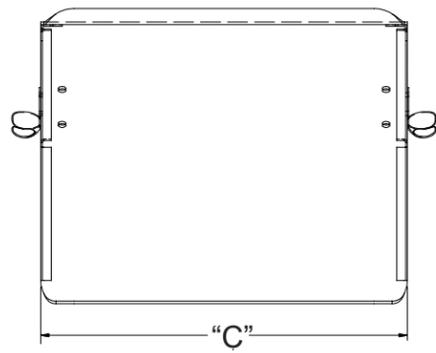
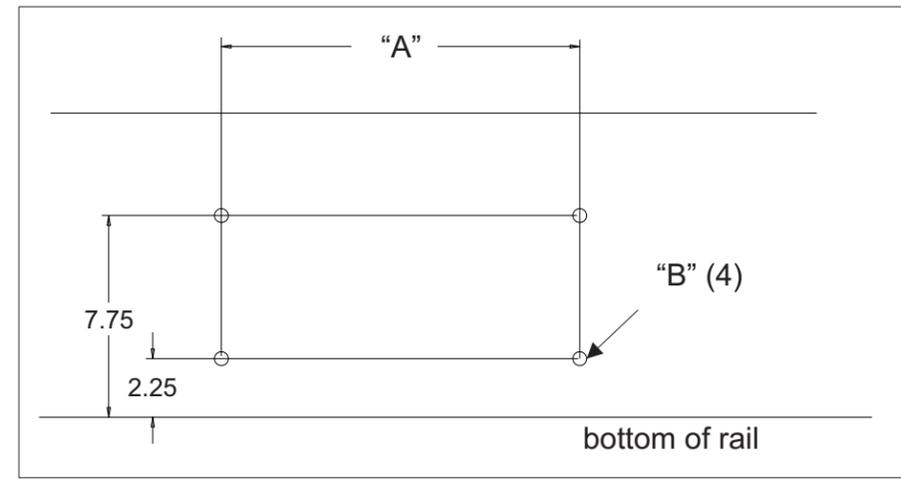
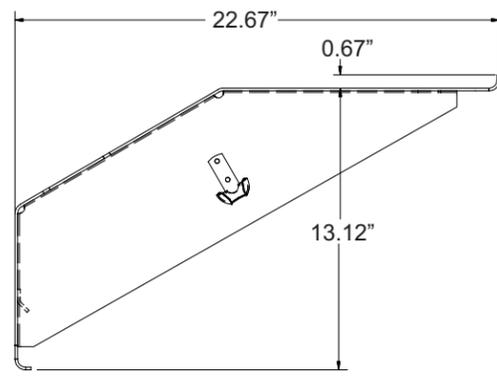
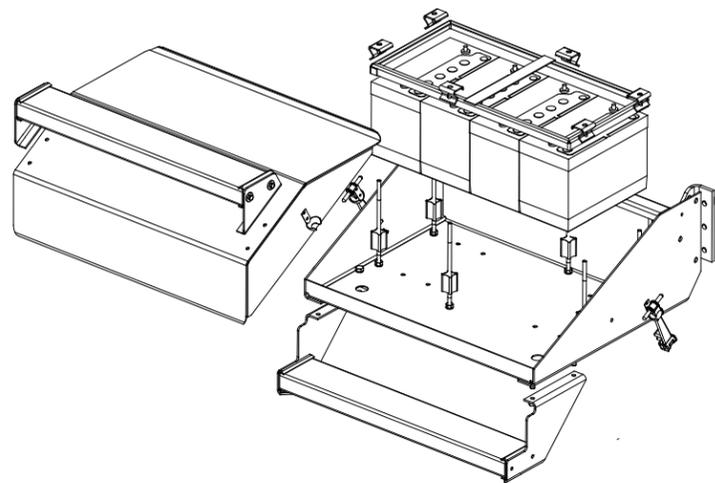
Back View



Side View



Typical seat belt installation for 2-man, box base seat



1 Bracket Mounted "Inward Position" and
1 Bracket Mounted "Outward Position"

Description	Drilling	"A"	"B"	"C"
4/4 Box Brkts - Out	FD2804-08	19.25"	17/32"	31.75"
4/4 Box Brkts - Out	FD2804-07	33.95"	21/32"	31.75"
4/4 Box Brkts - Out	FD2804-06	31.93"	17/32"	31.75"
4/4 Box Brkts - Out	FD2804-05	33.74"	17/32"	31.75"
4/4 Box Brkts - Out	FD2804-04	35.06"	17/32"	31.75"
4/4 Box Brkts - I/O	FD2804-03	31.19"	17/32"	31.75"
4/4 Box Brkts - I/O	FD2804-02	31.19"	17/32"	31.75"
4/4 Box Brkts - Out	FD2804-01	33.95"	17/32"	31.75"
4/4 Box Brkts - In	FD2804-00	28.44"	17/32"	31.75"
3/4 Box Brkts - Out	FD2803-05	25.93"	17/32"	23.94"
3/4 Box Brkts - Out	FD2803-04	21.38"	17/32"	23.94"
3/4 Box Brkts - I/O	FD2803-03	23.37"	17/32"	23.94"
3/4 Box Brkts - I/O	FD2803-02	23.37"	17/32"	23.94"
3/4 Box Brkts - Out	FD2803-01	26.13"	17/32"	23.94"
3/4 Box Brkts - In	FD2803-00	20.62"	17/32"	23.94"
1/2 Box Brkts - I/O	FD2802-10	16.56"	21/32"	17.12"
1/2 Box Brkts - O/I	FD2802-09	16.56"	21/32"	17.12"
1/2 Box Brkts - Out	FD2802-06	19.12"	17/32"	17.12"
1/2 Box Brkts - Out	FD2802-05	21.57"	17/32"	17.12"
1/2 Box Brkts - Out	FD2802-04	20.45"	17/32"	17.12"
1/2 Box Brkts - I/O	FD2802-03	16.56"	17/32"	17.12"
1/2 Box Brkts - I/O	FD2802-02	16.56"	17/32"	17.12"
1/2 Box Brkts - Out	FD2802-01	19.32"	17/32"	17.12"
1/2 Box Brkts - In	FD2802-00	13.81"	17/32"	17.12"

NOTE: Brackets mounted Outboard is the standard mounting configuration (Figure #1). Brackets mounted in the "inward position" requires less frame rail real-estate (Figure #2). A combination of one bracket mounted "inward position" and one bracket mounted "outward position" Figure #3 allows for addition allows for less frame rail forward or aft of box. Mounting configuration 2 or 3 allows other components either inside of rail or out side of rail to be located closer to the battery box..