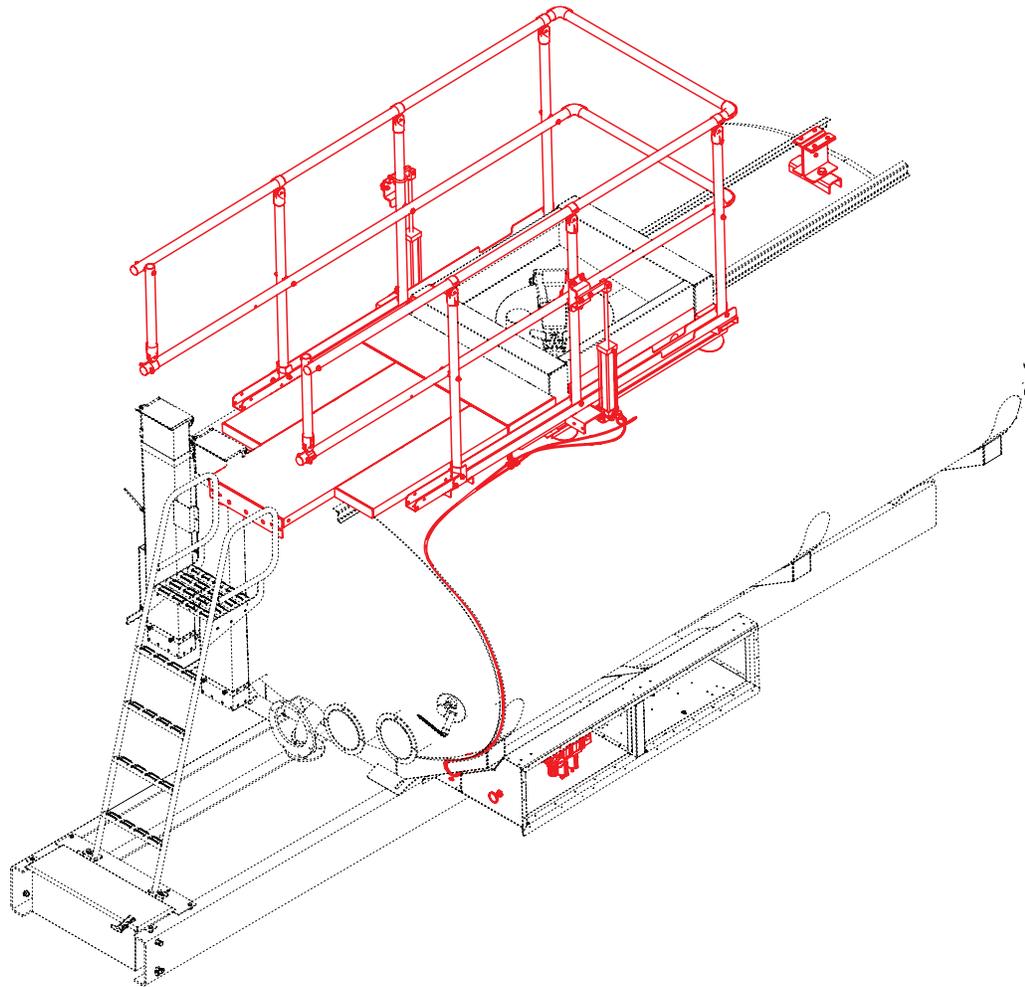




M-101-FHR-21

Hand Rail Installation

for the Black-Topper® Asphalt Distributor



E. D. ETNYRE & CO. 1333 S. Daysville Road, Oregon, Illinois 61061

Phone: 815/732-2116 or 800/995-2116 • Fax: 800-521-1107 • www.etnyre.com

Hand Rail Installation

for the
Black-Topper® ASPHALT DISTRIBUTOR

HOW TO ORDER PARTS

To assure prompt delivery when ordering parts, please furnish the following information: **1)** Complete name and address of consignee. **2)** Method of shipment preferred. **3)** Is shipment to be prep aid or collect? **4)** Serial numbers of units to which parts apply. **5)** Complete part numbers and descriptions. **6)** Any special instructions.

Specify unit serial number when ordering parts!

WARRANTY

E. D. Etnyre & Co. warrants to the original Purchaser, its new product to be free from defects in material and workmanship for a period of twelve (12) months after date of delivery to original Purchaser. The obligation of the Company is limited to repairing or replacing any defective part returned to the Company and will not be responsible for consequential damages or any further loss by reason of such defect.

The company excludes all implied warranties of merchantability and fitness for a particular purpose. There are no warranties, express or implied, which extend beyond the description of the goods contained in this contract.

This warranty does not obligate the Company to bear the cost of machine transportation in connection with the replacement or repair of defective parts, nor does it guarantee repair or replacement of any parts on which unauthorized repairs or alterations have been made or for components not manufactured by the Company except to the extent of the warranty given by the original Manufacturer.

This warranty does not apply to:

- (1) Normal start-up services, normal maintenance services or adjustments usually performed by the selling dealer, factory service representative or customer personnel.
- (2) Any product manufactured by E. D. Etnyre & Co. purchased or subjected to rental use.
- (3) product or part thereof which shows improper operation, improper maintenance, abuse, neglect, damage or modification after shipment from factory.
- (4) Any product or part thereof damaged or lost in shipment. Inspection for damage should be made before acceptance or signing any delivery documents releasing responsibility of the delivering carrier.

This warranty and foregoing obligations are in lieu of all other obligations and liabilities including negligence and all warranties of merchantability or otherwise, express or implied in fact or by law.



Decimal Equivalent Chart			
Fraction	Decimal	Fraction	Decimal
1/16	.06	9/16	.56
1/8	.12	5/8	.62
3/16	.19	11/16	.69
1/4	.25	3/4	.75
5/16	.31	13/16	.81
3/8	.38	7/8	.88
7/16	.44	15/16	.94
1/2	.50	1	1.00

This manual covers standard features and options. If your unit incorporates custom features, some of the information contained in this manual may not apply. If you have any questions regarding this manual or your unit, contact your dealer or the E. D. Etnyre Service Department at 1-800-995-2116

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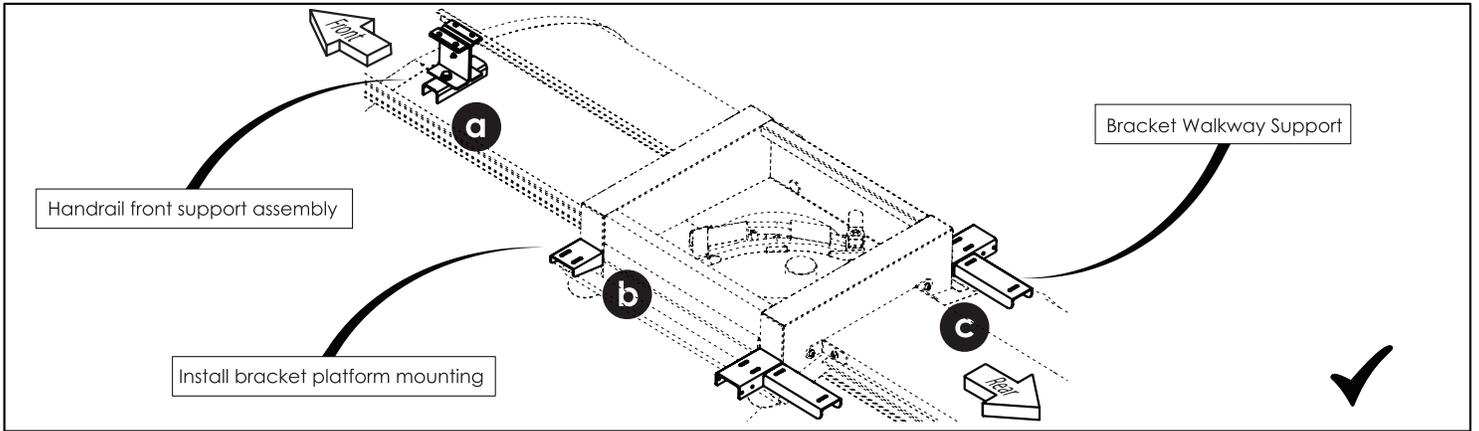
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HANDRAIL BRACKETS & SUPPORT ASSEMBLY INSTALLATION

{A} Install Mounts for Handrails onto Spillbox & Support Asm on to Channel on Top of Tank



A - Install Mounts for Handrails onto Spillbox & Support Asm on to Channel on Top of Tank

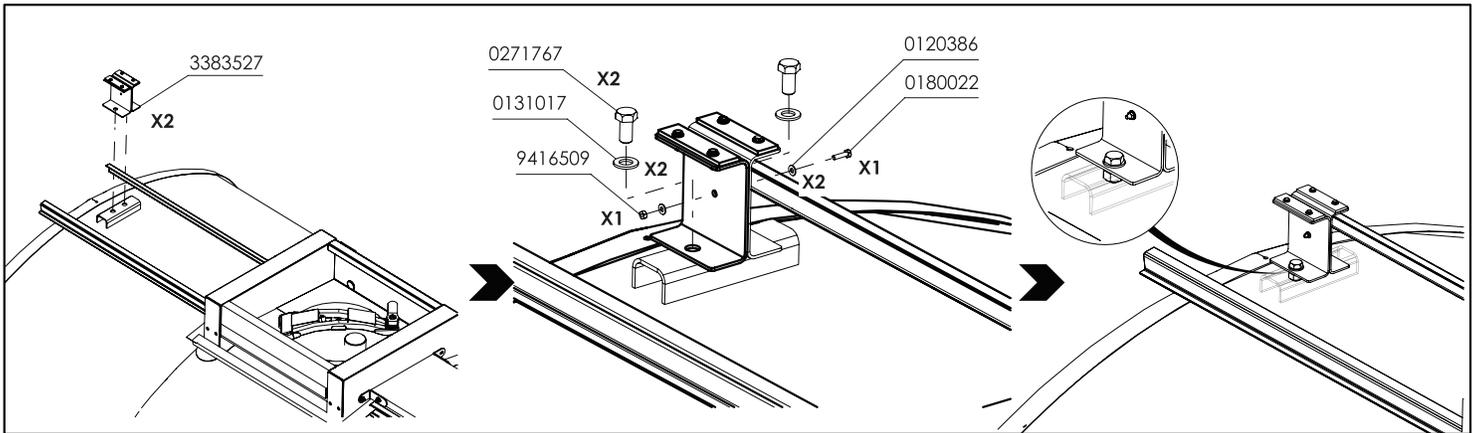


Figure A1

{A} Install Mounts for Handrails onto Spillbox & Support Asm on to Channel on Top of Tank

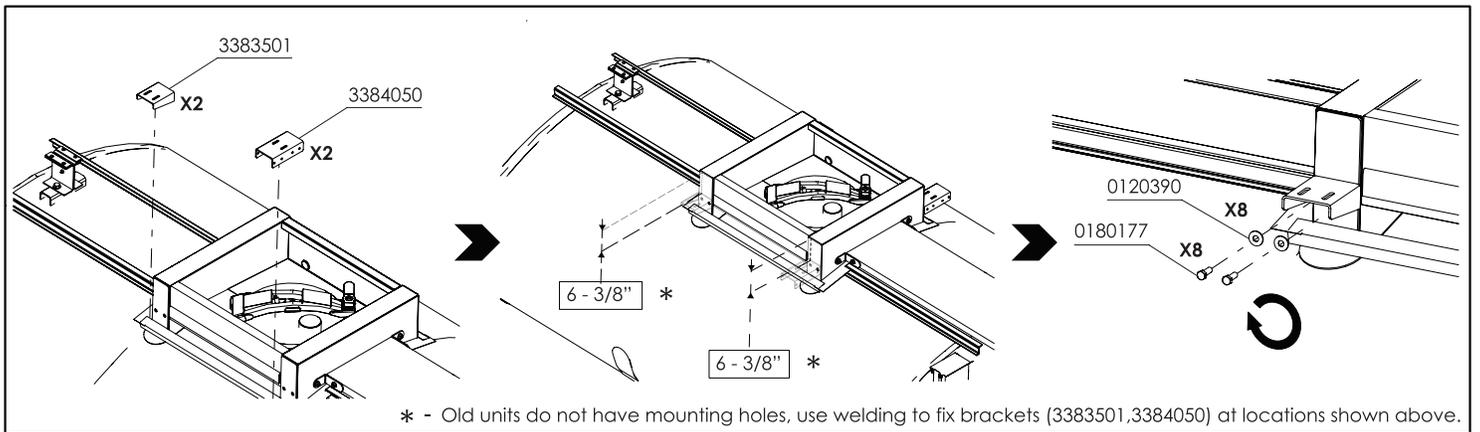


Figure A2

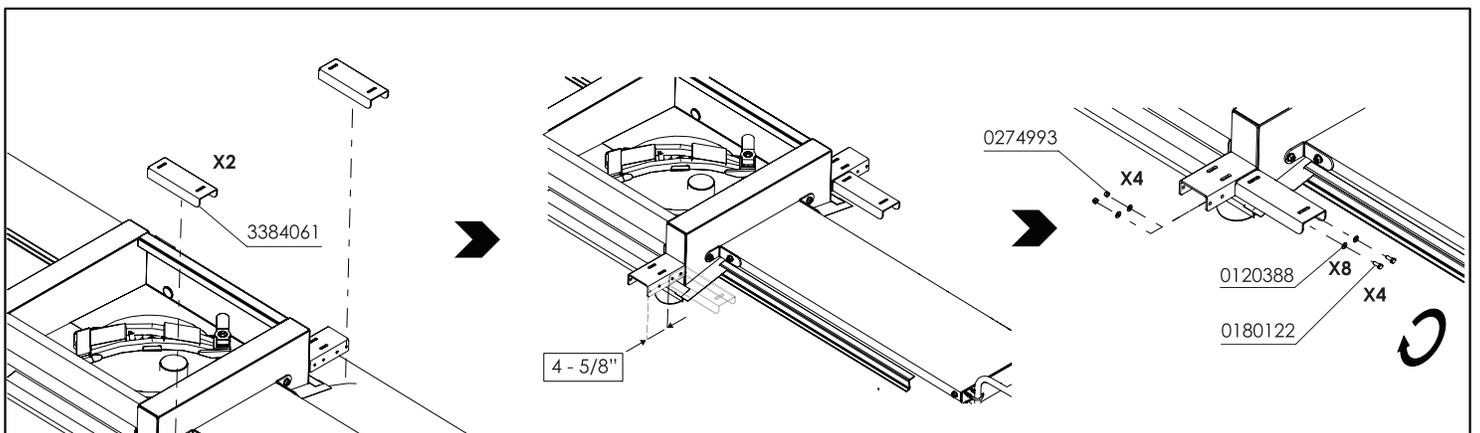


Figure A3

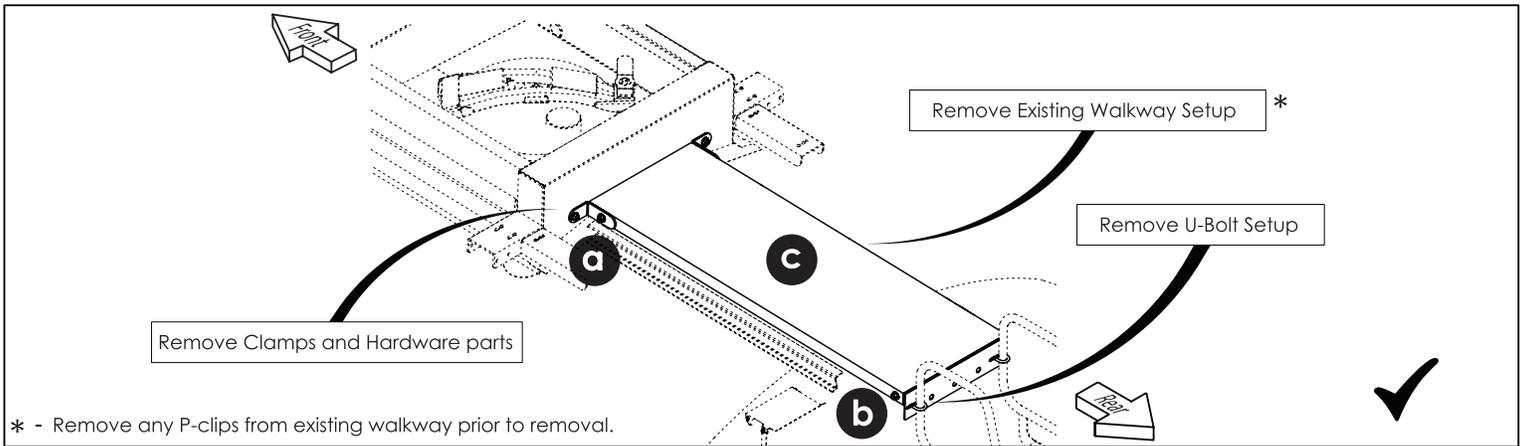
HANDRAIL BRACKETS & SUPPORT ASSEMBLY INSTALLATION

Parts Required - A

PART NO.	DESCRIPTION	QTY	IMAGES
3383527	SUPPORT ASM-FLDG HANDRAIL,FRT	2	
0180022	SCREW-HEX,0.25NCX1.00,GR5,PD	1	
0120386	WASHER-FLAT,0.25A(0.31X0.73)PD	2	
9416509	NUT-HEX, LOCK 0.250NC, PD	1	
0271767	SCREW-HEX,0.75NCX1.50,GR5,PD	2	
0131017	WASHER-FLAT,0.75A(.81X1.47)PD	2	
3383501	BRACKET-PLATFORM MTG	2	

EXISTING WALKWAY REMOVAL

{B} Remove Existing Walkway on Top of Tank



B - Remove Existing Walkway on Top of Tank

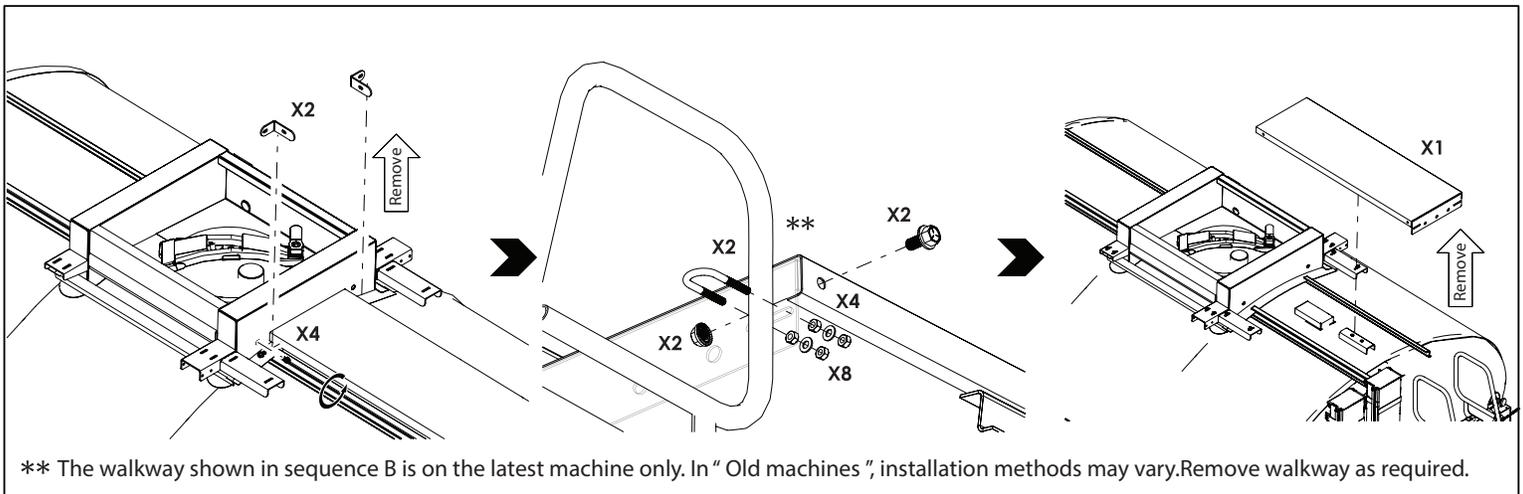
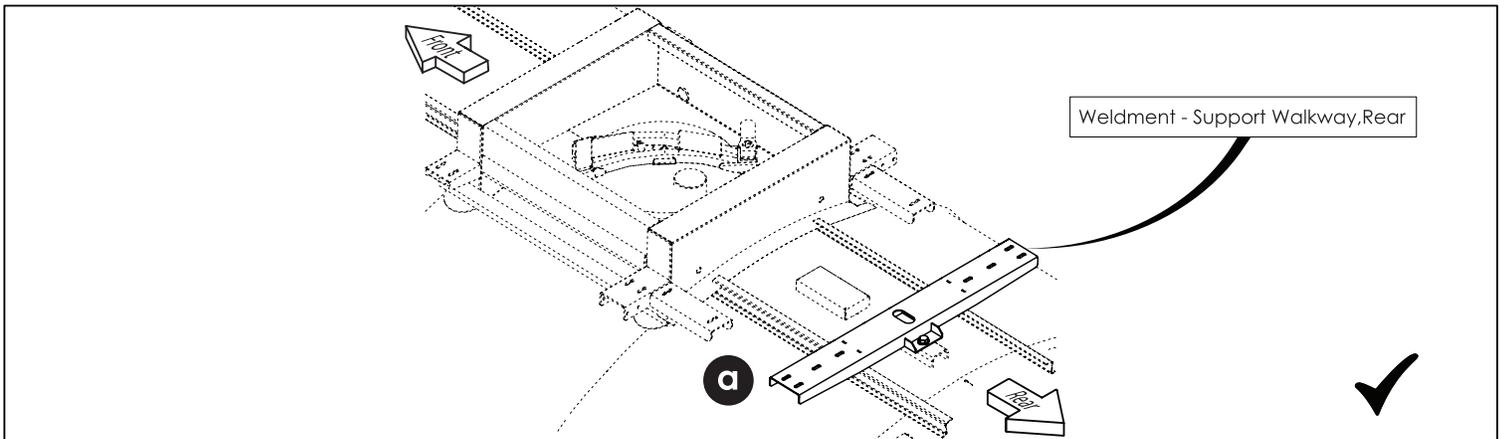


Figure B1

REAR WALKWAY SUPPORT INSTALLATION

{C} Install Cross Member Included in Kit to Lifting Connection



C - Install Cross Member Included in Kit to Lifting Connection

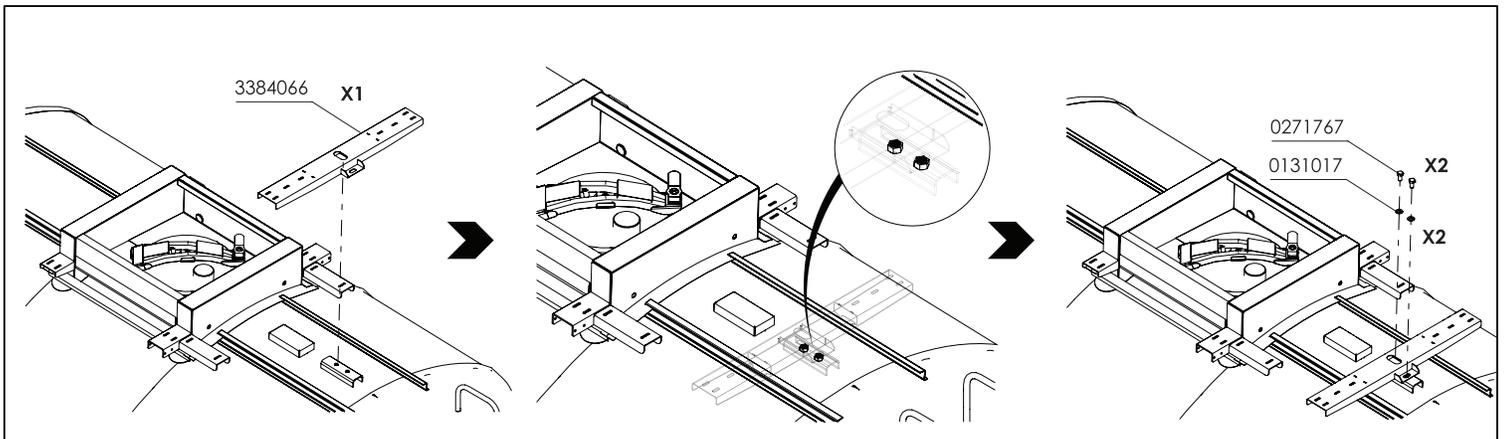
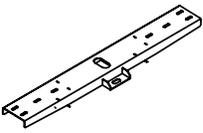
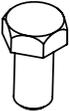


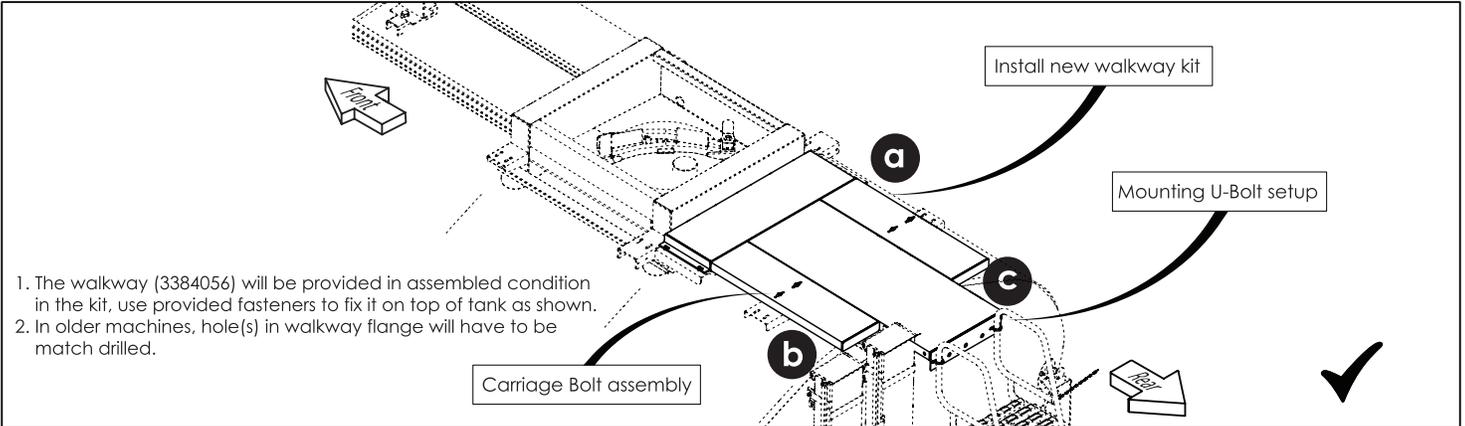
Figure C1

Parts Required - C

PART NO.	DESCRIPTION	QTY	IMAGES
3384066	WELDMENT-SUPPORT WALKWAY,REAR	1	
0271767	SCREW-HEX,0.75NCX1.50,GR5,PD	2	
0131017	WASHER-FLAT,0.75A(.81X1.47)PD	2	

NEW WALKWAY INSTALLATION

{D} Install Walkway Included in Kit



D - Install Walkway Included in Kit

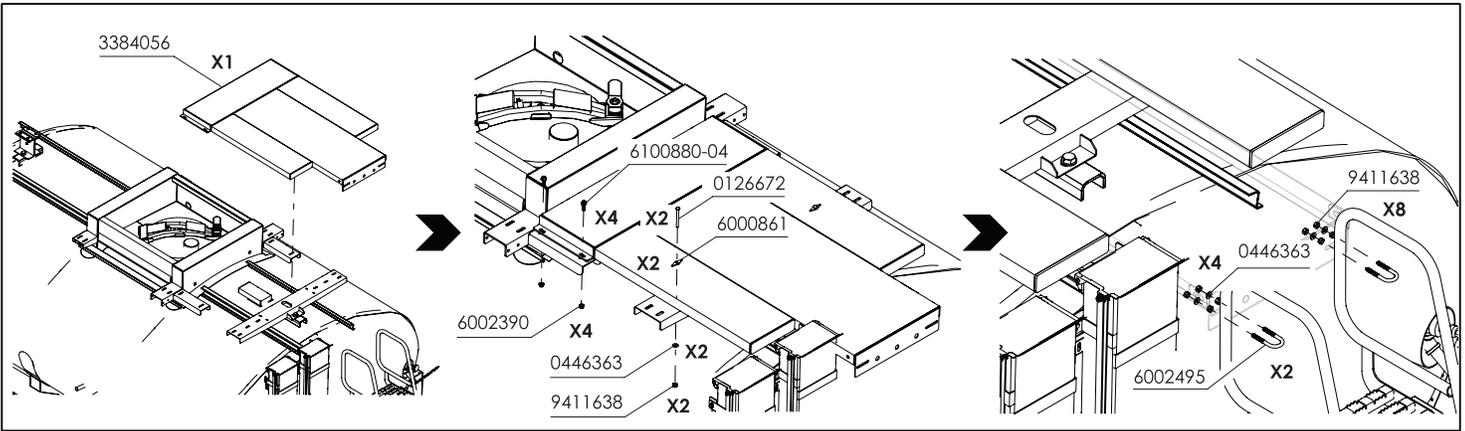
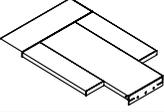
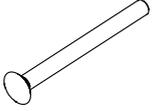


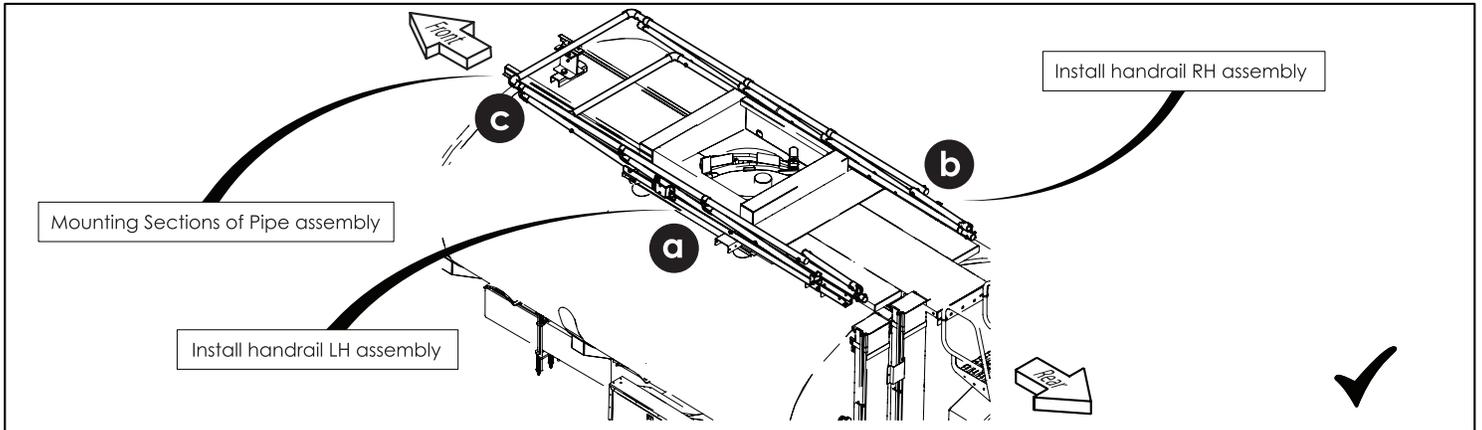
Figure D1

Parts Required - D

PART NO.	DESCRIPTION	QTY	IMAGES
3384056	WALKWAY-HANDRAILS,ALUM,2000GAL	1	
0126672	SCREW-RDSQNKBLT,0.31NCX3.50,PCR	2	
6000861	ANCHOR-GRIP STRUT,GLOBE #12262	2	
0446363	WASHER-FLAT,0.31A(0.38X0.88)PCR	6	
9411638	NUT-HEX,LOCK,0.31NC,PCR	10	
6002495	U-BOLT .75" PIPE	2	
6100880-04	BOLT-WIZ,0.375UNCX1.25 GR5,PD	4	
6002390	NUT-HEX SER FLG, .38NC GR2PD	4	
6100881-03	BOLT-WIZ,0.50UNCX1.00 GR5,PD	2	
6100883	NUT-FLANGE,1/2-13,GR2,PD,SERR	2	

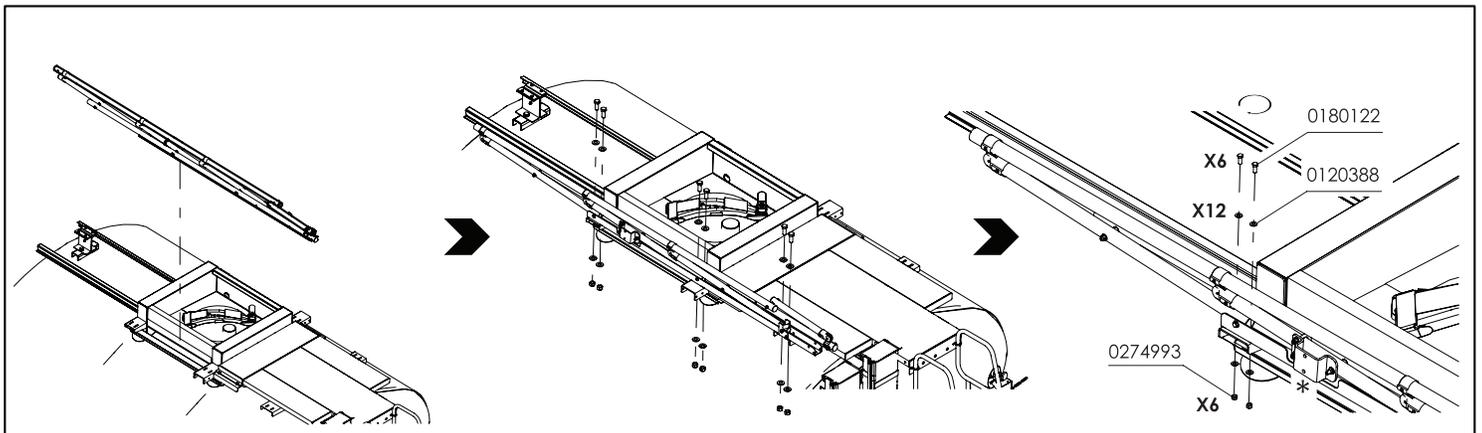
HANDRAIL ASSEMBLY INSTALLATION

{E} Install Handrail Assembly Onto Mounts



E - Install handrail assembly onto mounts

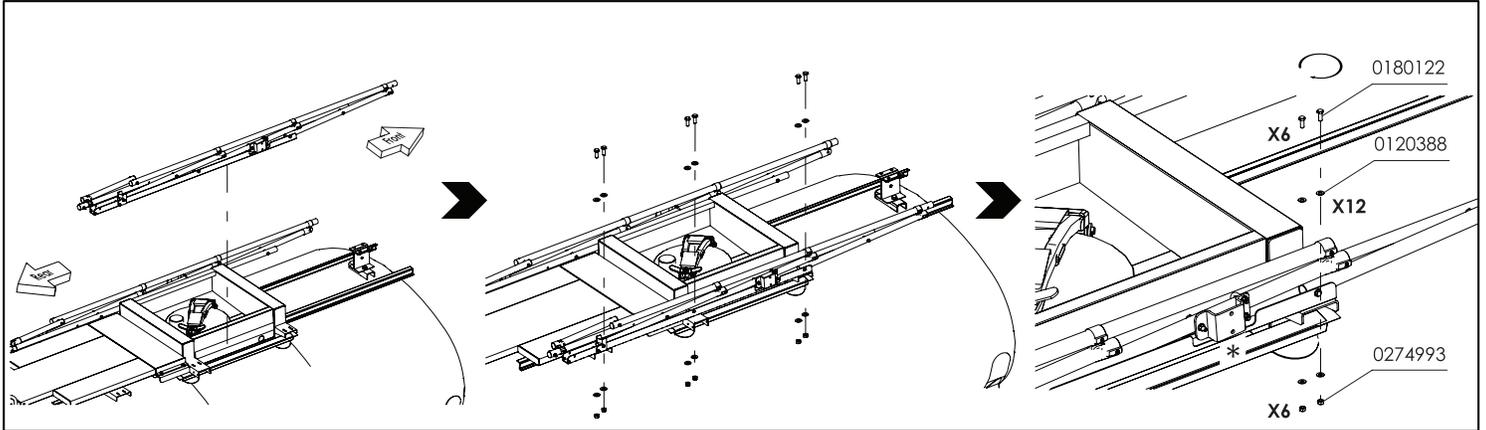
Handrail assembly (3384076) will be provided in combination of (3) assemblies - Handrail RH, Handrail LH, Section Pipe. Use provided fasteners in the kit to fix the handrail assembly on top of tank as shown.



* - Ensure mounts for air cylinders are facing out.

Figure E1

{E} Install Handrail Assembly Onto Mounts



* - Ensure mounts for air cylinders are facing out.

Figure E2

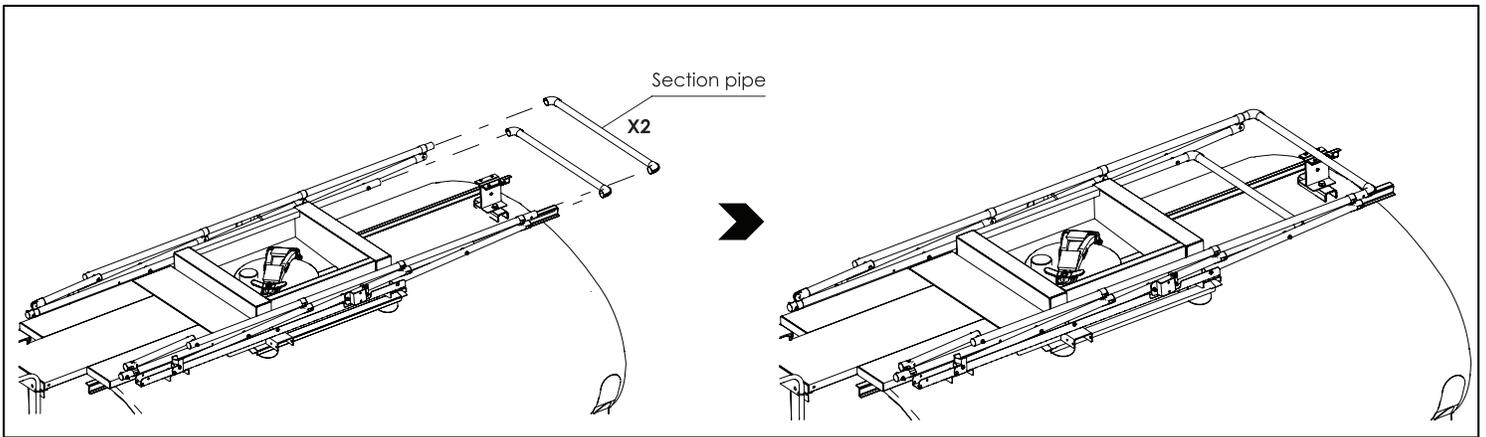
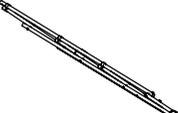
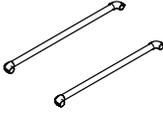
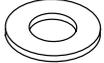


Figure E3

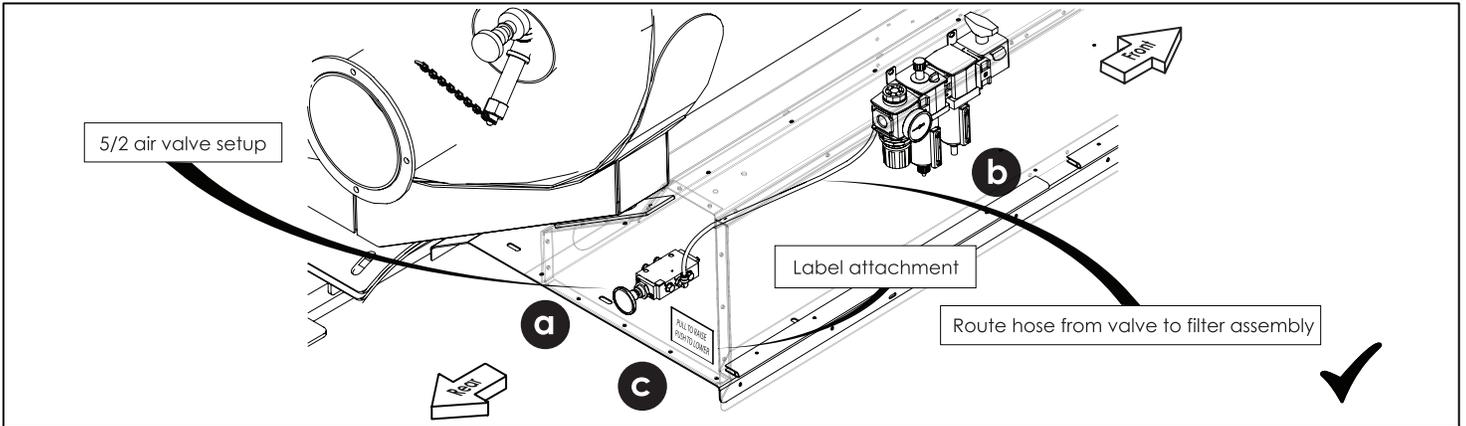
HANDRAIL ASSEMBLY INSTALLATION

Parts Required - E

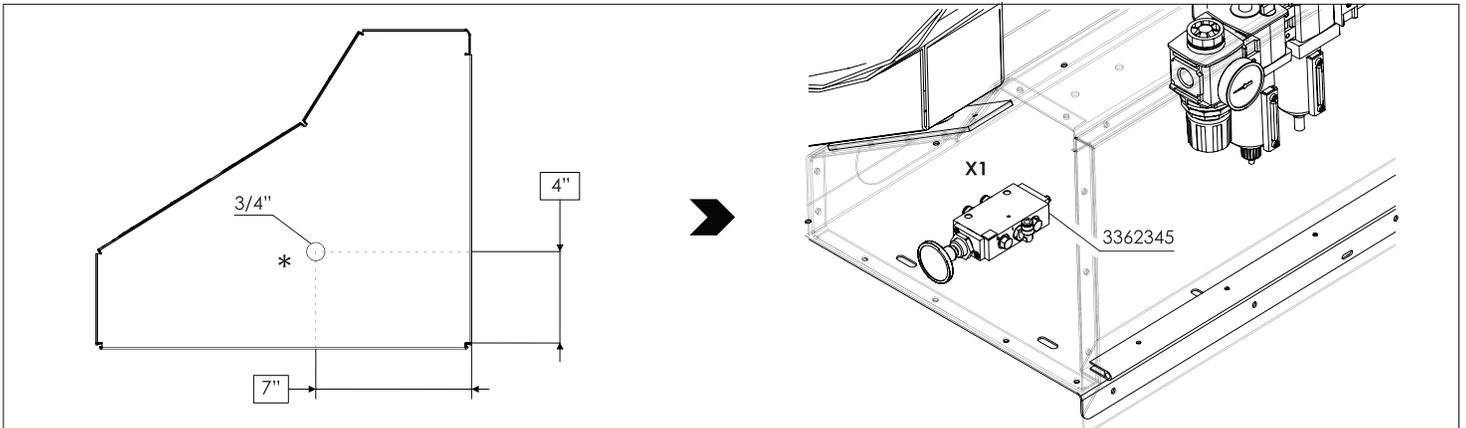
PART NO.	DESCRIPTION	QTY	IMAGES
	a. HANDRAIL LH ASM	1	
3384076	b. HANDRAIL RH ASM	1	
	c. SECTION PIPE - HANDRAIL ASM	2	
0180122	SCREW-HEX,0.38NCX1.00,GR5,PD	12	
0120388	WASHER-FLAT,SAE,STD,0.375	24	
0274993	NUT-HEX,LOCK 0.375NC,PD	12	

5/2 WAY VALVE INSTALLATION, HOSE INSTALLATION FROM VALVE TO AIR FILTER

{F} Mount Valve to R.H. Toolbox, Route Inlet Hose From Air Filter to Valve



F - 3/2 Way Valve Installation, Hose Installation from Valve to Air Filter



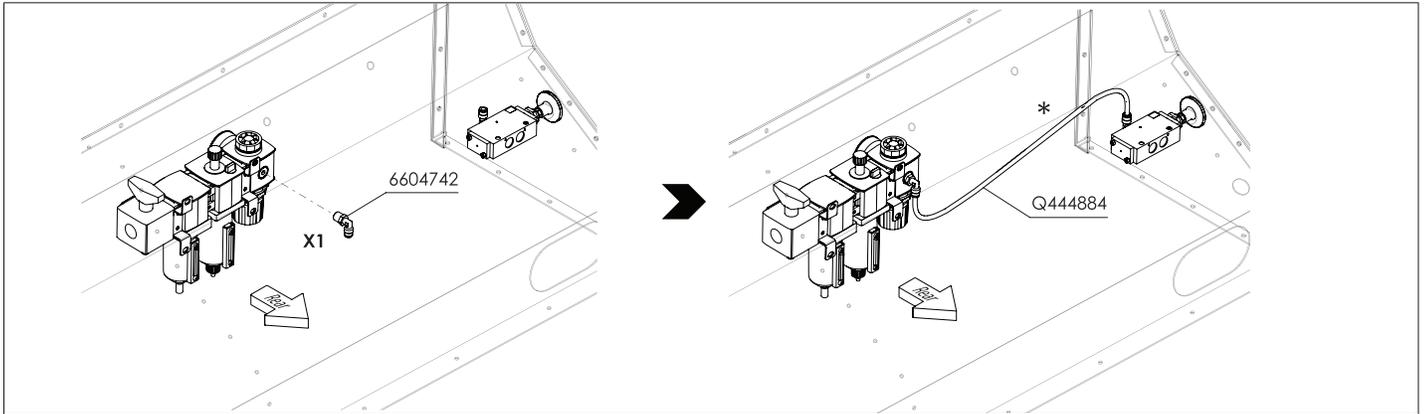
* - Hole with dia of 3/4" to be drilled at shown to install at 3/4 way valve asm

The valve (3362345) will come as an assembly (3362345) with all the end fitting already attached to it

Figure F1

5/2 WAY VALVE INSTALLATION, HOSE INSTALLATION FROM VALVE TO AIR FILTER

{F} Mount Valve to R.H. Toolbox, Route Inlet Hose From Air Filter to Valve



* - The hose (Q444884) connects to port 1 (middle port) of push/pull valve.

Figure F2

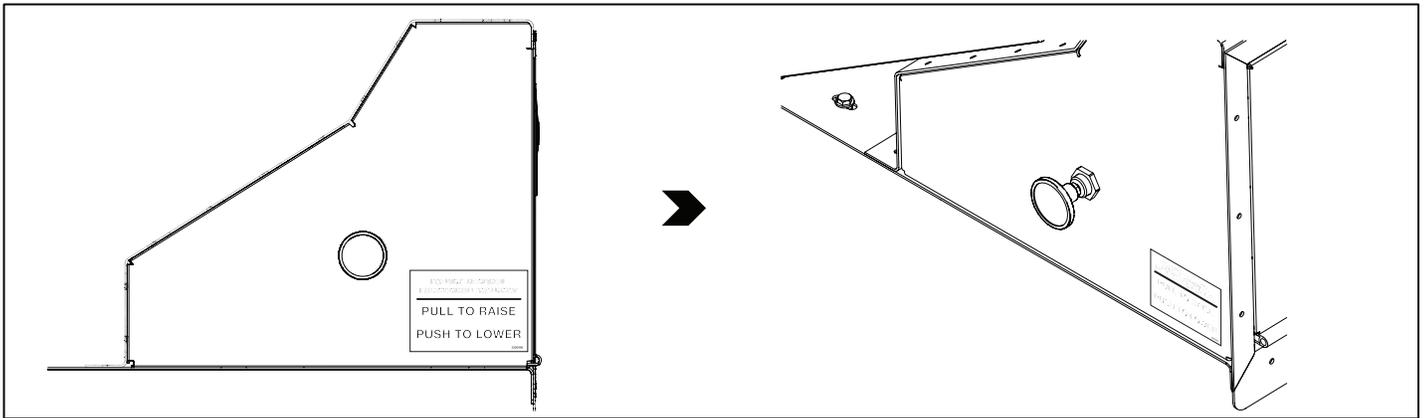
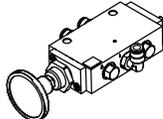
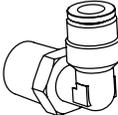
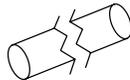
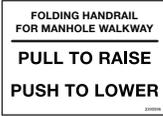


Figure F3

Parts Required - F

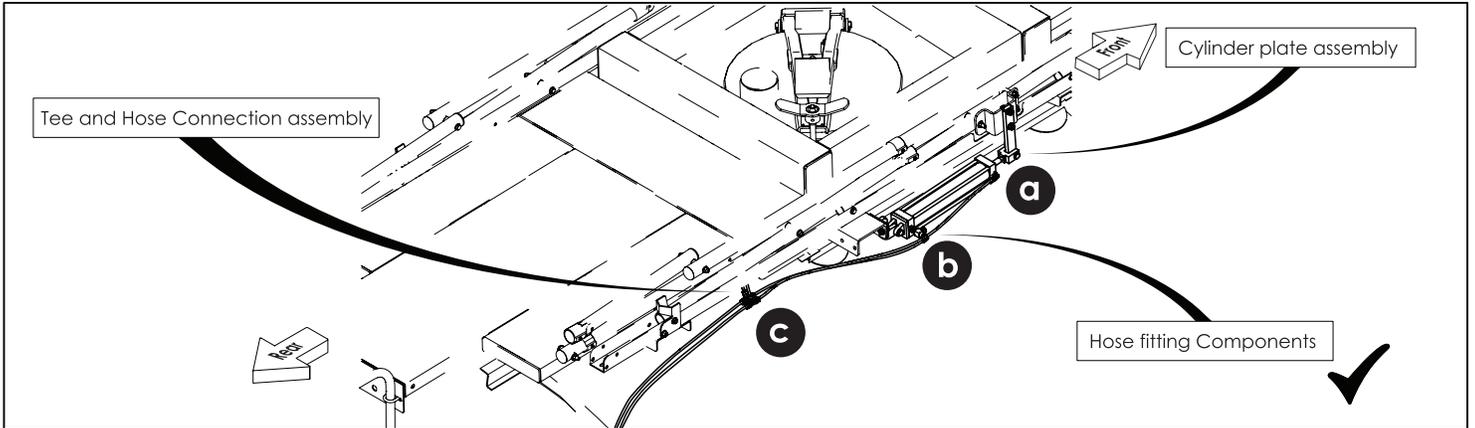
PART NO.	DESCRIPTION	QTY	IMAGES
3362345	3/2 WAY VALVE ASSEMBLY	1	
6604742	ADAPTER-AIR,90,04TUBE-04MPX,PD	1	
Q444884	Tube .250in OD X .065in Wall	As Required	
3390996	Decal	1	

TOOLS REQUIRED

1. Safety glasses
2. Standard drill
3. 3/4" drill bit

AIR CYLINDER & HOSE TO AIR CYLINDER INSTALLATION

{G} Route Air Supply and Return Hoses from the Valve to the Air Cylinders



G - Route Air Supply and Return Hoses from the Valve to the Air Cylinders Fixed to Either Side of the Handrails Assembly

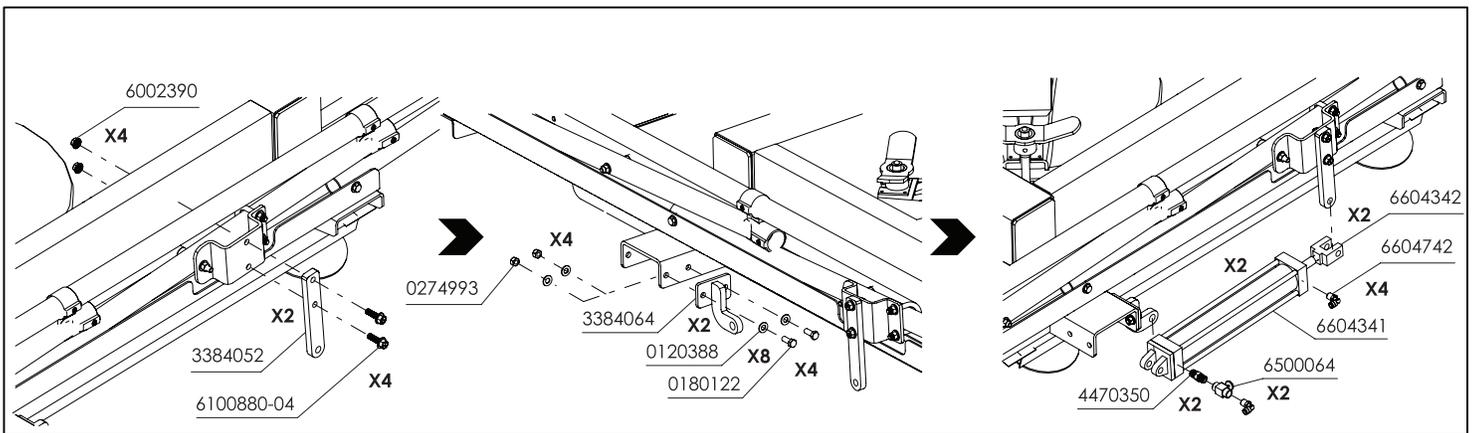


Figure G1

{G} Route Air Supply and Return Hoses from the Valve to the Air Cylinders

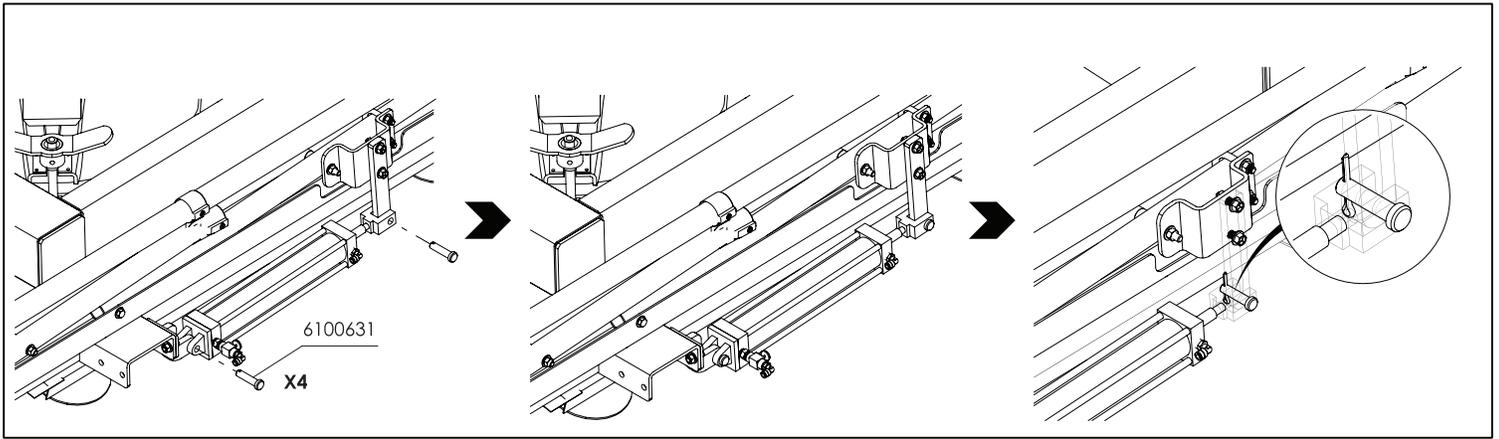


Figure G2

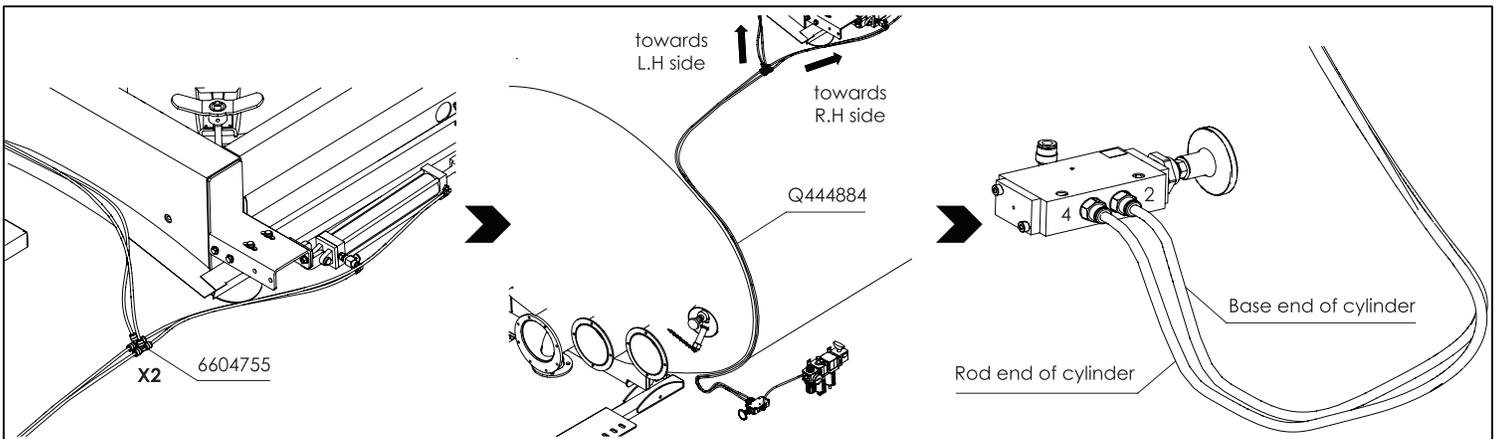
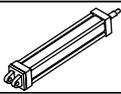
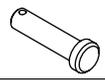


Figure G3

AIR CYLINDER & HOSE TO AIR CYLINDER INSTALLATION

Parts Required - G

PART NO.	DESCRIPTION	QTY	IMAGES	PART NO.	DESCRIPTION	QTY	IMAGES
3384052	PLATE-AIR CYL TOP ARM	2		6500064	VALVE-NEEDLE,0.25NPTF,.025PILOT	2	
6100880-04	BOLT-WIZ,0.375UNCX1.25 GR5,PD	4		4470350	NIPPLE-HEX,0.25X1.125	2	
6002390	NUT-HEX SER FLG, .38NC GR2PD	4		6604342	CLEVIS-AIR CYL,7/16-20 ROD	2	
3384064	WELDMENT-LOWER CYL MOUNT	2		6604341	CYLINDER-AIR,2X11,250PSI	2	
0274993	NUT-HEX,LOCK 0.375NC,PD	4		6100631	PIN-CLEVIS,.50 DIA X 2 LG	4	
0120388	WASHER-FLAT,SAE,STD,0.375	8		6604755	TEE-ARBK,06MT-06MT-06MT	2	
0180122	SCREW-HEX,0.38NCX1.00,GR5,PD	4		Q444884	Tube .250in OD X .065in Wall	As Required	
6604742	ADAPTER-AIR,90,04TUBE-04MPX,PD	4					