



The Ultimate in Fall Protection

CE	EN795: 1996 Class B
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Ladder Fall Arrest System

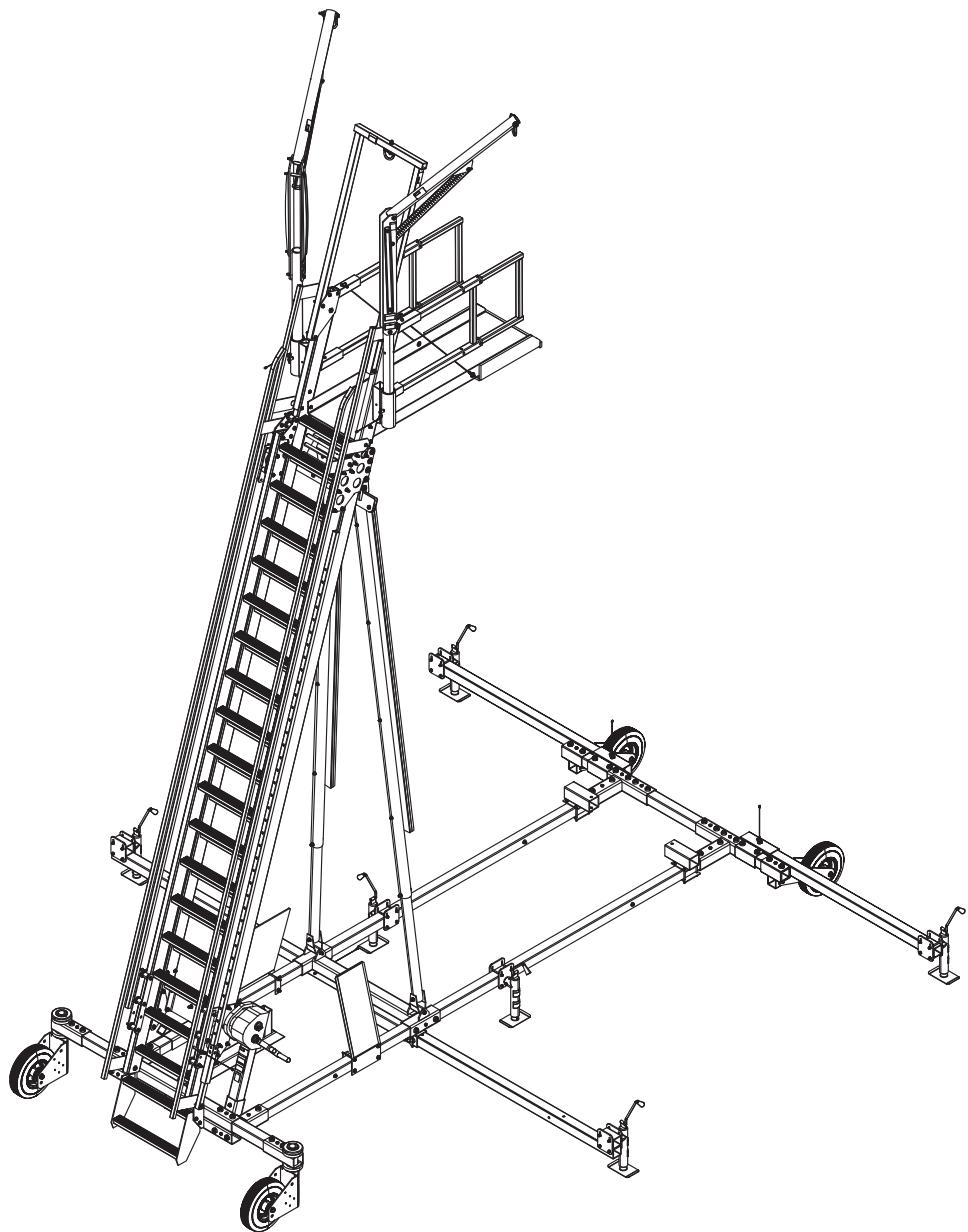
Model Numbers:

8517714 8517716 8517718 8530140
8517715 8517717 8517719 8560010

Assembly Instruction Manual

IMPORTANT: This instruction manual is intended for assembly of the product only. The "Ladder Fall Arrest System User Instruction Manual" (5902345) describes use, operation, and maintenance of this product. The owner's organization must provide the User Instruction Manual to any user of this equipment or rescuer.

IMPORTANT: If you have questions on the use, care, application, or suitability for use of this safety equipment, contact Capital Safety.



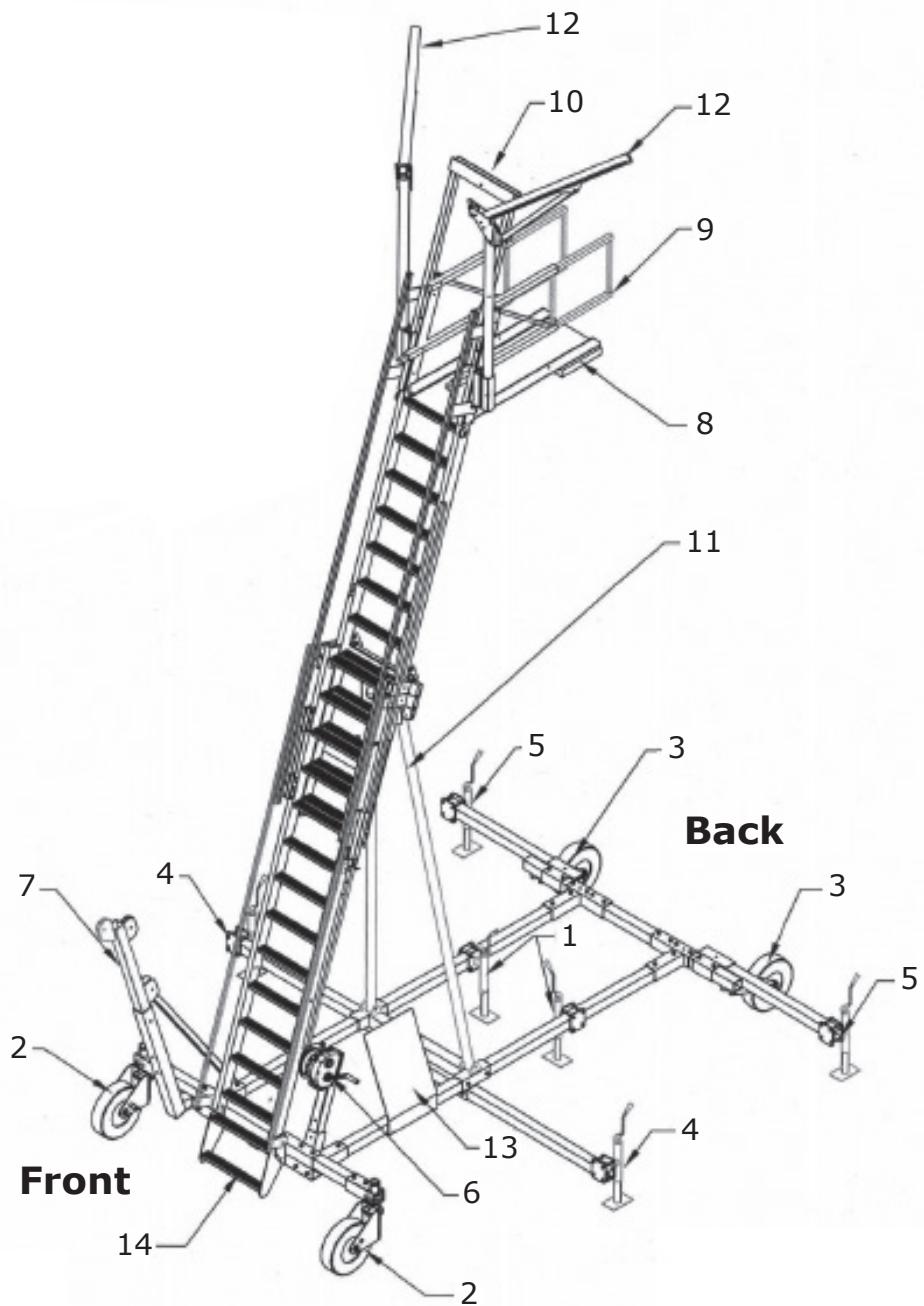
IMPORTANT: These assembly instructions must be provided to the assembler of this equipment. The assembler must read and understand these manufacturer's instructions before starting the assembly procedure. The assembler must follow the instructions for each component of the complete system. Alterations or misuse of this product, or failure to follow these assembly instructions, may result in serious injury or death.

1.0 Assembly

1.1 PROCEDURE: It is the responsibility of the owner's organization to read this assembly manual and to train assemblers before they start assembling the equipment. Untrained assemblers are not qualified to assemble the equipment.

1.2 OPERATION: The FlexiGuard™ Ladder Fall Arrest System (Ladder FAS) User Instruction Manual describes equipment use, operation and maintenance procedures. The owner's organization must provide the User Instruction Manual to any user of this equipment or to any rescuer.

2.0 Ladder System Component Identification



- | | |
|---------------------|---|
| 1. Jack | 9. Handrail (2) |
| 2. Swivel Wheel | 10. Overhead Anchor Point Post |
| 3. Fixed Wheel | 11. Ladder Support Tubes |
| 4. Outrigger (long) | 12. Davit |
| 5. Outrigger | 13. Operators Setup and Use Decal Plate |
| 6. Winch Post | |
| 7. Lifting Kit | |
| 8. Platform | 14. Step |

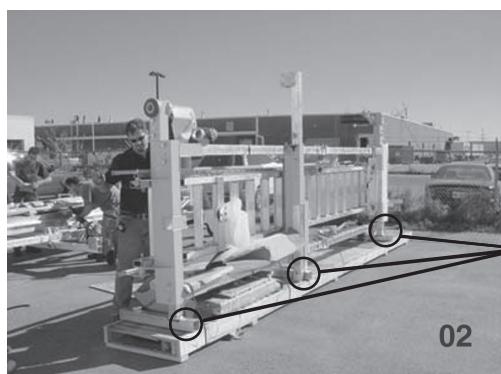
3.0 Ladder System Assembly

Figure 1 - Shipping Layout

The unit comes shipped on its side to keep the majority of the unit assembled. Remove all loose packages and place them out of the way at this stage of assembly.

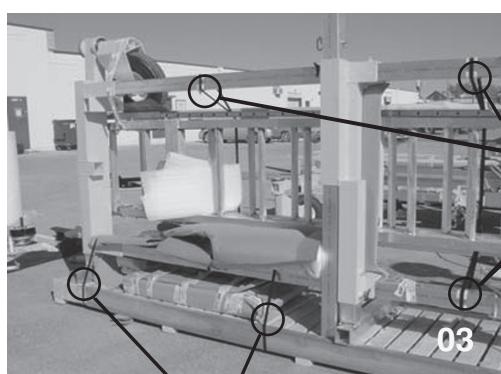


01



02

Aluminum shipping stands.



03

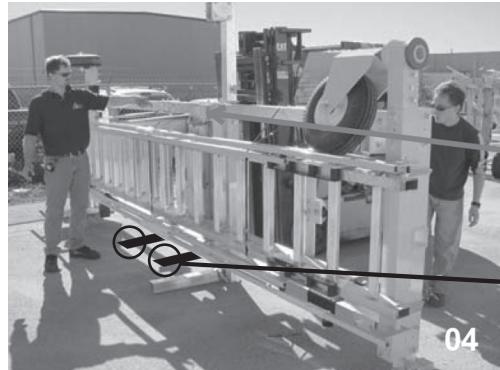
The strap that is secured from the base to ladder should stay secured until the unit is rested on the ground.

Remove the strapping holding the ladder to the shipping pallet.

3.0 Ladder System Assembly - Continued

Figure 2 - Remove from Pallet

After packages are removed, the base and ladder assembly must be removed from the pallet.



Remove screws and nails from the aluminum stands to separate the unit from the pallet.

Place forklift under the base as shown here.

Cut all strapping. Lift unit slowly to make certain it is balanced on the forks. Reposition forks if necessary.

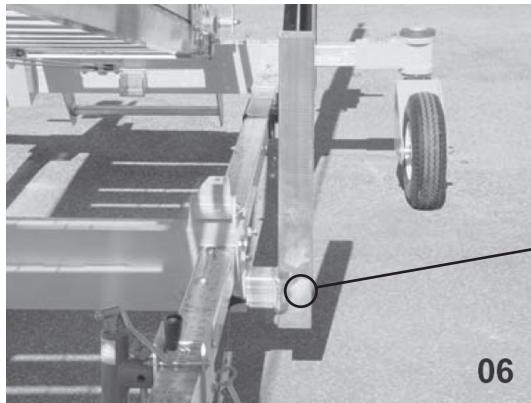
After the unit is off the pallet, slowly lower the unit to the ground. Then, using the forklift, slowly back up while rotating the unit flat to the ground.



Using a 3/4" wrench, loosen all bolts that secure the three aluminum stands.

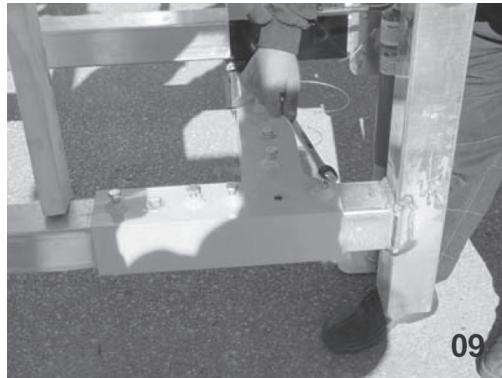
3.0 Ladder System Assembly - Continued

Figure 3 - Position for Assembly

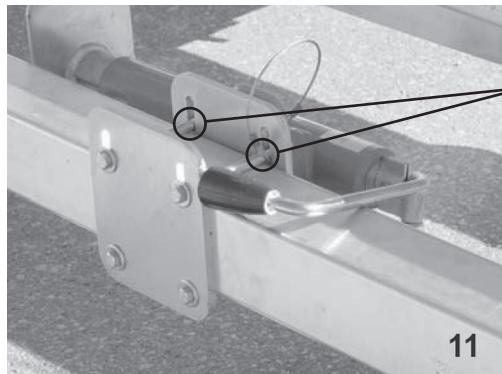
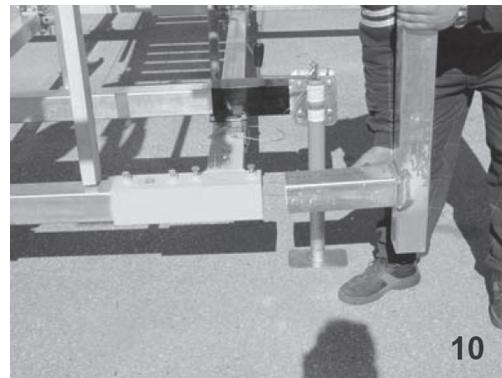


3.0 Ladder System Assembly - Continued

Figure 3 Continued - Position for Assembly



Remove the front aluminum shipping stand.



Remove detent pins.

Rotate the middle jacks down to help support the base while assembling the wheels and outriggers in the following steps.

Replace detent pins.

3.0 Ladder System Assembly - Continued

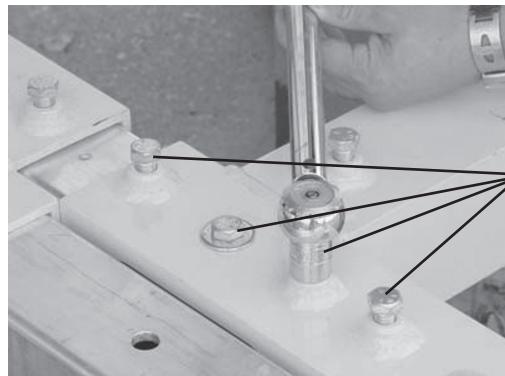
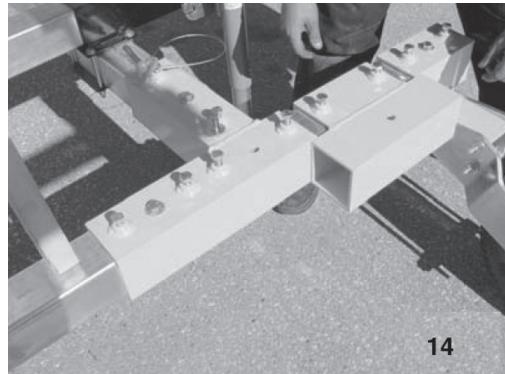
Figure 4 - Add Wheels



Add all four wheels to the base. Swivel casters are used at the front. Fixed casters are used at the back.



Secure all bolts to 25 ft lbs (33.9 N.m).



Secure all bolts to 25 ft lbs (33.9 N.m).

3.0 Ladder System Assembly - Continued

Figure 5 - Insert Outriggers



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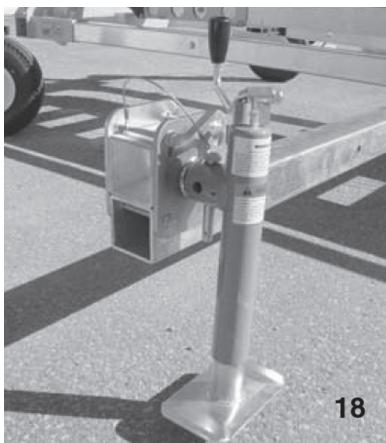
Insert all outriggers into their appropriate sockets.

Longer outriggers are used with the center base section.

Orient jacks toward fixed wheels (back).



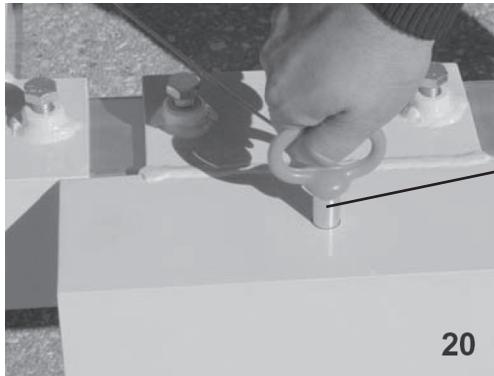
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18



19



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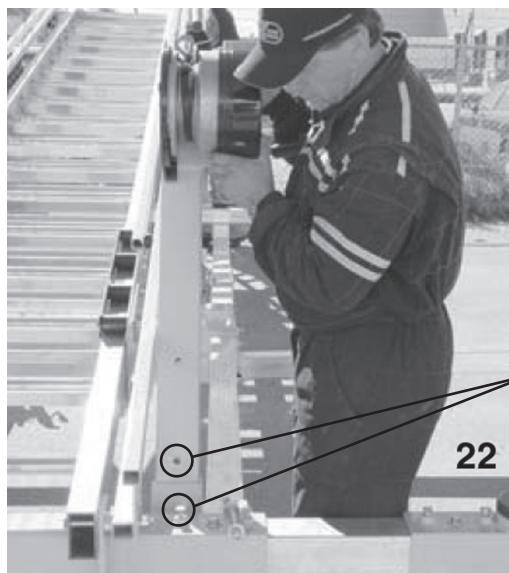
Make sure all detent pins are fully inserted and secure.

3.0 Ladder System Assembly - Continued

Figure 6 - Add Ladder Winch



Add the ladder winch to the socket on the right side of the ladder.

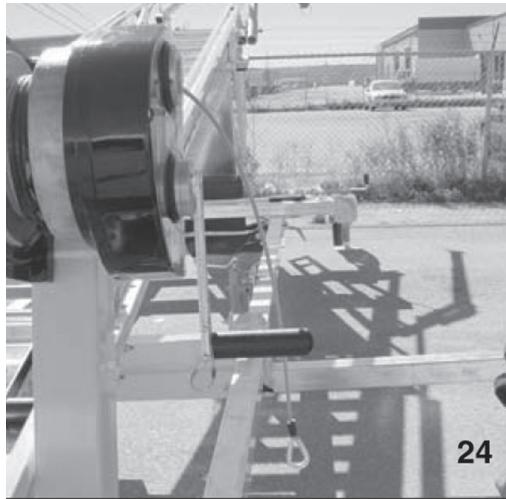


Bolt the winch post so it is at its tallest position.

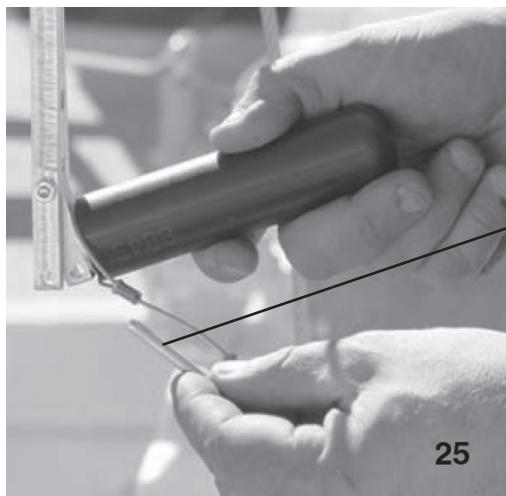


3.0 Ladder System Assembly - Continued

Figure 6 Continued - Add Ladder Winch



Unwind the cable, leaving only 3 to 5 wraps.



Secure the handle in operating position with detent pin.

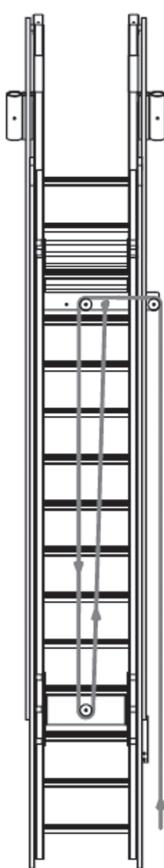
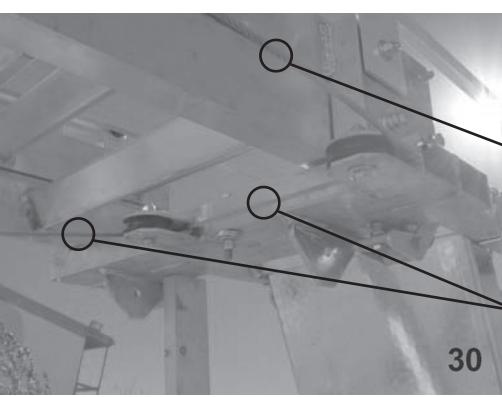


3.0 Ladder System Assembly - Continued

Figure 6 Continued - Add Ladder Winch

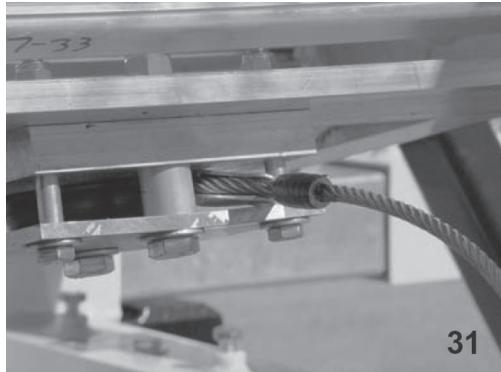


Feed the cable through the first pulley as shown here. Next, feed the cable across to the next pulley and feed it through as shown.

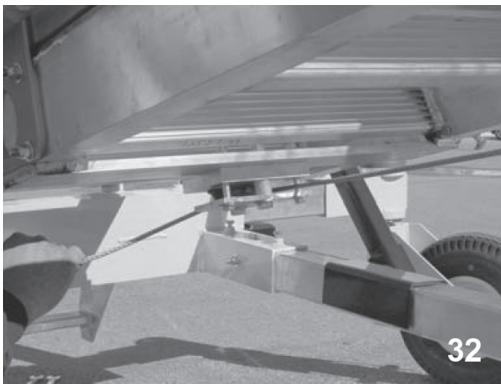


3.0 Ladder System Assembly - Continued

Figure 6 Continued - Add Ladder Winch

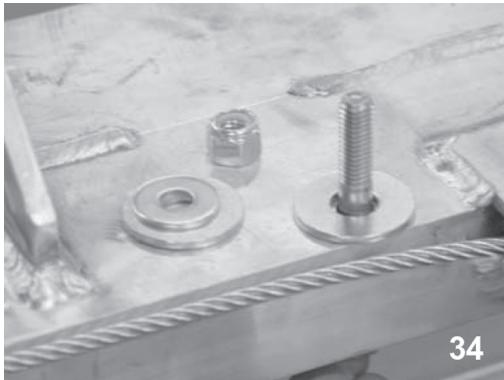


Feed the cable down the pulley at the bottom of the ladder and back through the other side as shown.

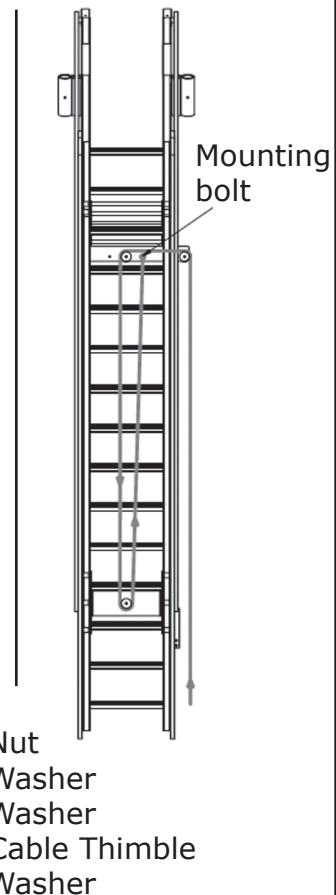


3.0 Ladder System Assembly - Continued

Figure 6 Continued - Add Ladder Winch

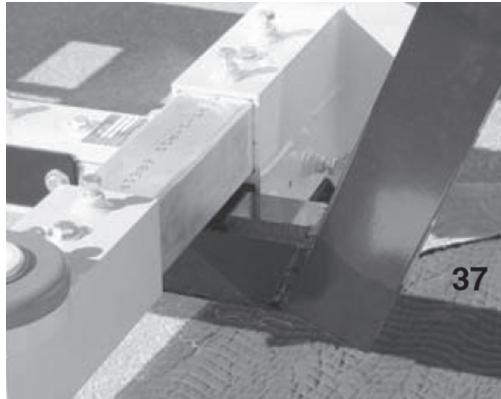


Next, pull the cable back up to pulleys at the top of the ladder and attach to the bolt located between the two pulleys as shown in illustrations 34 - 36.



3.0 Ladder System Assembly - Continued

Figure 7 - Lifting Kit
(Skip this section if Lifting Kit was not ordered)



Skip this section if no lifting kit was ordered.

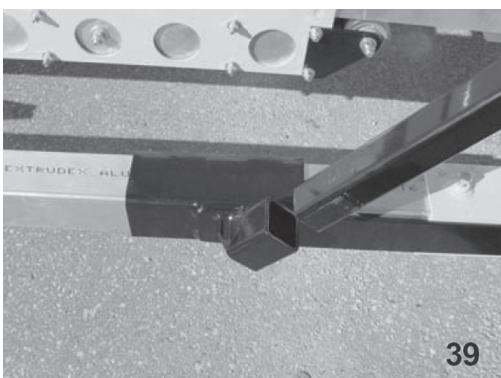
Substitute a crane or forklift to erect the ladder on the base.

WARNING

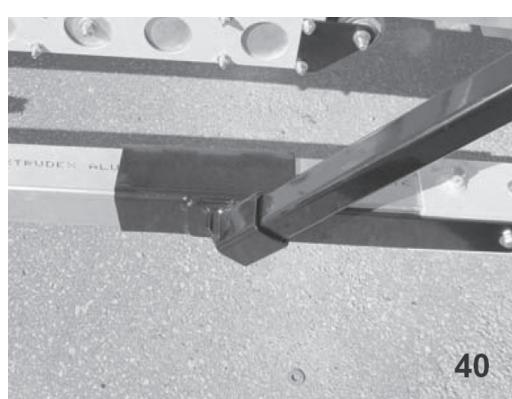
Do not stand under the ladder while assembling.



Add the lifting kit to the base of the ladder. First add the post, making certain it is angled away from the unit. Tighten the bolts to secure the post as shown in illustration 38.



Second, add the support tube by first inserting it into the receiver pocket mounted on the base, as shown in 39 and 40.



Lift Kit Section

3.0 Ladder System Assembly - Continued

Figure 7 Continued - Lifting Kit



Third, bolt the support tube between the ears located on the lifting kit post as shown in 41.



Unwind the cable by holding both the redirect pulley and the carabiner as shown in 42 and 43.

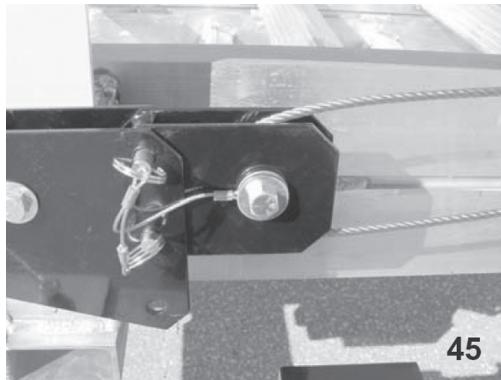


When the cable is long enough, attach both the redirect pulley and the carabiner to the attachment at the top of the ladder as shown in 44 through 47.

Lift Kit Section

3.0 Ladder System Assembly - Continued

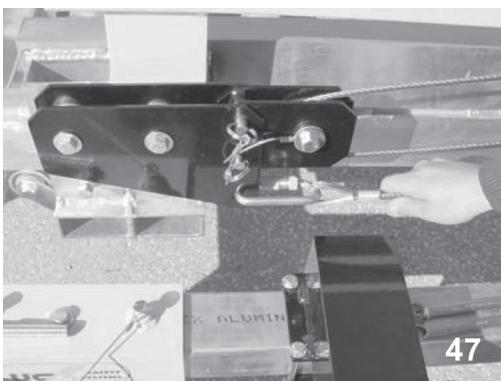
Figure 7 Continued - Lifting Kit



Before using the lifting kit, ensure that all connections are secured. Unwind the remaining cable from the winch drum and respool neatly to avoid cable damage sudden cable jumping.



Do not raise the ladder until the ladder support tubes are assembled (see illustration 63).



WARNING
Once the ladder is upright, secured and ready to use, this lifting device must be disconnected (remove carabiner) to ensure that no improper use occurs while operating the ladder.



End of Lift Kit section.

Lift Kit Section

3.0 Ladder System Assembly - Continued

Figure 8 - Attach Platform to Ladder



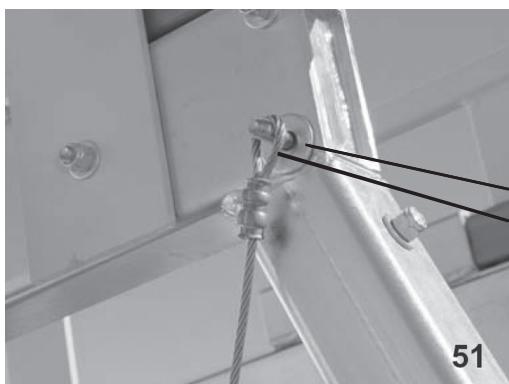
Assemble the platform to the ladder. Remove the nuts and washers from both bolts where the platform mounts and the cables attach.

49



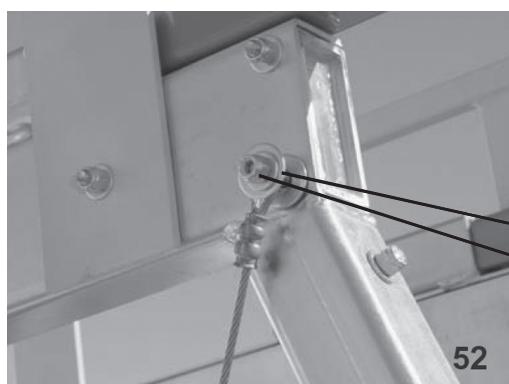
50

Attach cables to both sides.



51

Assemble hardware.
Washer
Cable



52

3.0 Ladder System Assembly - Continued

Figure 9 - Assemble Handrails



Assemble the
adjustable handrails
to the unit.



Insert the hand rails
to the steel sleeve
section handrail
pockets as shown in
54 and 55.



55

3.0 Ladder System Assembly - Continued

Figure 9 Continued - Assemble Handrails



56

Add bolts to secure the handrails. Make certain the cables inside the tubing are also secured by the bolts by going through the cable eyes.



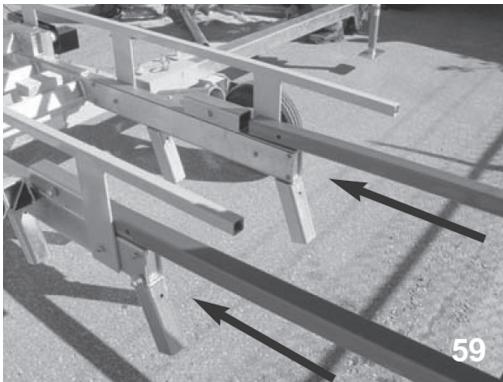
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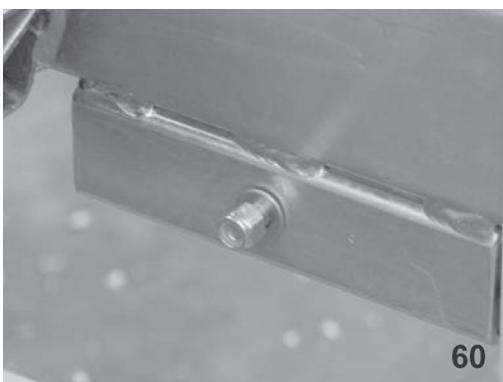
58

3.0 Ladder System Assembly - Continued

Figure 10 - Assemble Overhead Anchor Post



Assemble the overhead anchor point post by inserting the post into the pockets on the steel sleeve section.



Align holes and bolt into place.



Attach an SRL that will secure the operator climbing up and down the ladder.



Make certain a tag line is attached to pull the retractable cable down the ladder before climbing the unit.

3.0 Ladder System Assembly - Continued

Figure 11 - Assemble Ladder Support Tubes



63

Assemble the ladder support tubes. Mount the support tube assembly to the ladder unit:

First, raise the ladder using the lifting device by about 4 to 5 feet.



64

Second, remove the inner tubes from the support tubes to be able to align the holes in the ears.



65

Third, slide the support tube assembly under the raised ladder while aligning the threaded holes with the holes in the ears under the ladder, as shown in 65 and 66.



66

3.0 Ladder System Assembly - Continued

Figure 11 Continued - Assemble Ladder Support Tubes



Slowly lift the ladder with attach support tubes (using lift kit, forklift or overhead crane) until it is possible to insert the inner tubes of the support tube assembly and bolt into place.

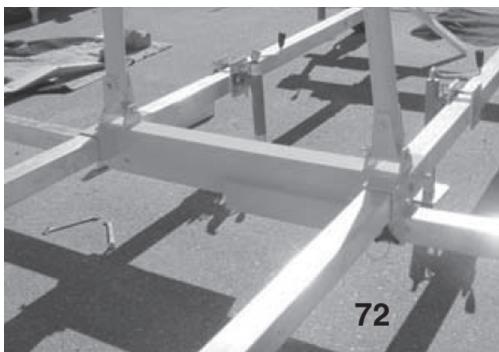
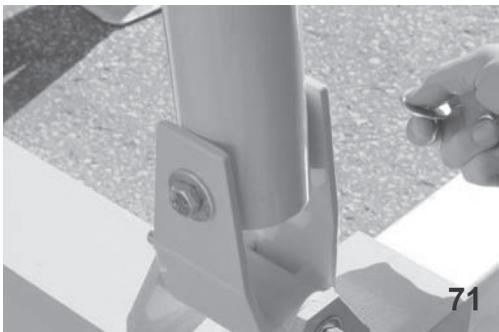


3.0 Ladder System Assembly - Continued

Figure 11 Continued - Assemble Ladder Support Tubes



Continue to lift the ladder into its operating position. Mount the support tubes into the U channels attached to the center section of the base, as shown in 70 through 72.



3.0 Ladder System Assembly - Continued

Figure 12 - Final Assembly Steps



Pull your tag line down to attach the SRL to your harness, as shown in 74 and 75.



Depending on available equipment, you may want to use a forklift or crane to lift the davits up to the steel sleeve and insert them.

Sleeve



3.0 Ladder System Assembly - Continued

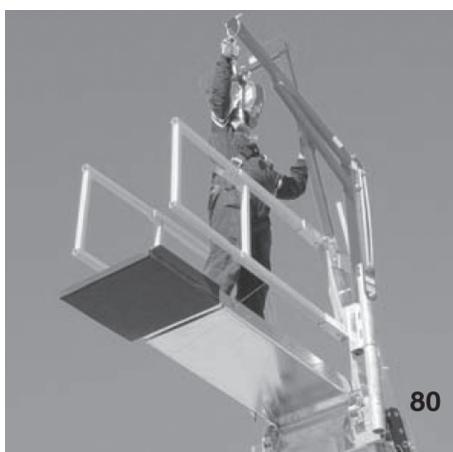
Figure 12 Continued - Final Assembly Steps



Next, pin the davits into place as shown in 78. Set up the davits by removing the hardware at the end of the gusset and attach the gusset to the davit.



The davits will point out and away from the ladder. This gives the operators a larger working area with approximately a 6 foot (1.8 m) radius. (See User Instruction Manual.)



Attach your SRLs, not provided, to the anchor point at the end of each davit, as shown in 79 through 81.

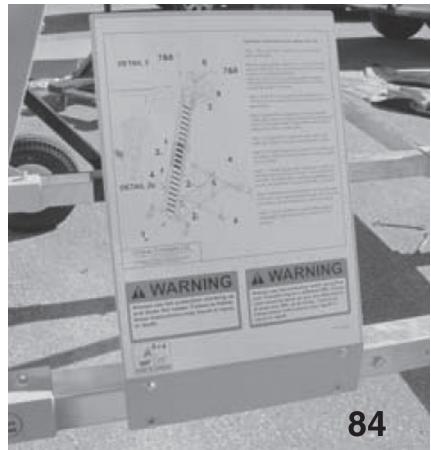
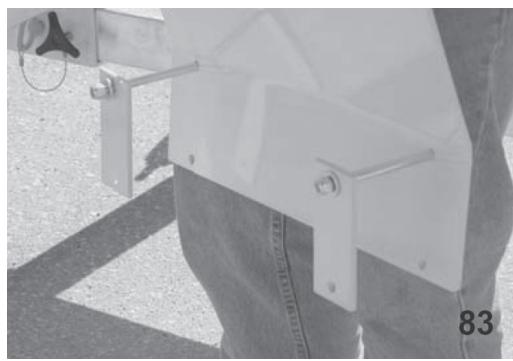


3.0 Ladder System Assembly - Continued

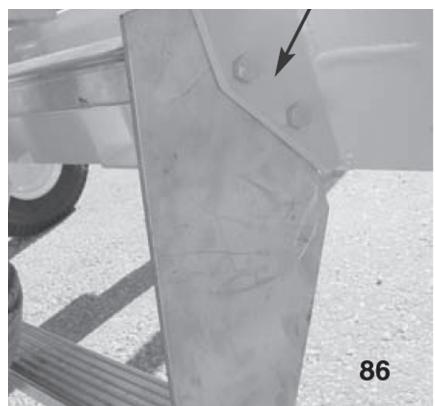
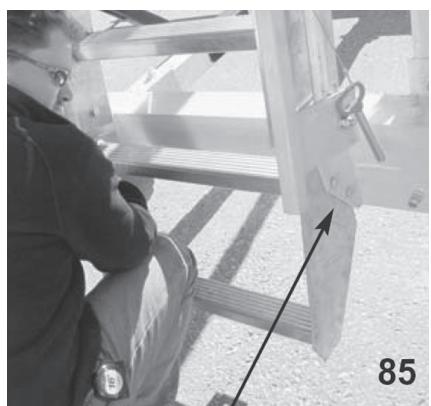
Figure 12 Continued - Final Assembly Steps



Attach the operators setup and use decal plate on the base of the unit, as shown. This should be on the same side as the winch.



Last, assemble the step to the base of the ladder. Assemble the step between the ears shown in 85. Align and bolt.



4.0 Ladder System Maintenance and Inspection

4.1 Visual inspection after assembly

A complete visual inspection should be performed on the FPALS equipment prior to operation. The following items should be checked; and the results recorded on the "Maintenance and Inspection Log" sheet found in the Operators Manual.

4.1 Labels

Check that all labels are clean and legible. Clean the labels if any are dirty using a mild soap and a damp cloth. Replace if any are illegible.

4.2 Fasteners

Check that all ladder screws and other fasteners are tight. Tighten ladder fasteners hand tight only. Base fasteners must be checked using 15 ft. lbs (20.3 N.m) of torque. If any are loose, tighten to 20 ft. lbs (27.1 N.m).

Contact your local dealer or DBI-SALA for any replacement fasteners that may be required

Check the components for cracks, dents, bends, or breaks. Minor cosmetic damage in the component body will not affect the function of the FPALS System. However, if there are major dents or any other structural damage, the unit should not be used and should be returned to the manufacturer for service.

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<p>Garantía limitada de por vida</p> <p>Garantía para el Usuario final: CAPITAL SAFETY garantiza al usuario final original ("Usuario final") que sus productos están libres de defectos en materiales y mano de obra bajo condiciones normales de uso y servicio. Esta garantía abarca toda la vida útil del producto, desde la fecha de compra del producto por parte del Usuario final, en estado nuevo y sin uso, a un distribuidor autorizado de CAPITAL SAFETY. Toda la responsabilidad de CAPITAL SAFETY para con el Usuario final y el recurso exclusivo del Usuario final en virtud de esta garantía, se limita a la reparación o sustitución en especie de cualquier producto defectuoso dentro de su vida útil (como CAPITAL SAFETY lo determine y estime conveniente a su sola discreción). Ninguna información oral o escrita, o información dada por CAPITAL SAFETY, sus distribuidores, directores, técnicos, agentes o empleados, creará ninguna garantía distinta o adicional, ni de alguna manera ampliará el alcance de esta garantía. CAPITAL SAFETY no acepta responsabilidad por defectos que sean resultado del abuso, mal uso, alteración o modificación del producto, ni por los defectos que se deban a una instalación, mantenimiento o utilización que no esté de acuerdo con las instrucciones del fabricante. ESTA GARANTÍA ES LA ÚNICA GARANTÍA APPLICABLE A NUESTROS PRODUCTOS Y SUSTITUYE A CUALQUIER OTRA GARANTÍA O RESPONSABILIDAD, EXPRESA O IMPLÍCITA.</p>	<p>Garantia vitalícia limitada</p> <p>Garantia de utilizador final: a CAPITAL SAFETY garante ao utilizador final original ("Utilizador Final") que os seus produtos estão isentos de defeitos de materiais e de fabrico ao abrigo de uma utilização e serviço normal. Esta garantia prolonga-se pela duração da vida útil do produto desde a data de aquisição do produto pelo Utilizador Final, em condição nova e não usada, junto de um distribuidor autorizado da CAPITAL SAFETY. A responsabilidade integral da CAPITAL SAFETY perante o Utilizador Final e o recurso exclusivo do Utilizador Final ao abrigo desta garantia está limitado à reparação ou substituição de qualquer produto defeituoso no decorrer da sua vida útil (consoante apropriado e determinado exclusivamente segundo o critério exclusivo da CAPITAL SAFETY). Nenhuma informação escrita ou oral ou conselho fornecido pela CAPITAL SAFETY, seus distribuidores, directores, representantes, agentes ou funcionários irá criar garantias diferentes ou adicionais ou de qualquer forma aumentará o âmbito desta garantia. A CAPITAL SAFETY não aceitará responsabilidade por defeitos resultantes de abuso, utilização incorrecta, alteração ou modificação, ou por defeitos do produto que resultem de um incumprimento de instalação, manutenção ou utilização do produto de acordo com as instruções do fabricante. ESTA GARANTIA É A ÚNICA GARANTIA APPLICÁVEL AOS NOSSOS PRODUTOS E EXISTE EM DETERMINO DE QUAISQUER OUTRAS GARANTIAS E RESPONSABILIDADES, EXPRESSAS OU IMPLÍCITAS.</p>
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