





WARNING
Safety First

The best insurance against an accident is a careful, qualified operator. Most accidents are caused by the failure of individuals to follow simple and fundamental safety rules and precautions. Use common sense when operating a mobile ladder stand.

You, as a careful operator, are the best insurance against an accident. Therefore, proper usage of this mobile ladder stand is mandatory. The following pages of this manual should be read and understood completely before operating the mobile ladder stand.

Common sense dictates the use of protective clothing when working on or near machinery. Use appropriate safety devices to protect your eyes, ears, hands, feet and body.

Any modifications from the original design are strictly forbidden without written permission from Liftsafe Engineering and Service Group Inc.

Electrocution Hazard

This mobile ladder stand is not electrically insulated. Maintain a Minimum Safe Approach Distance (MSAD) from energized power lines and parts as listed below. The operator must allow for the ladder to sway, rock or sag. This mobile ladder stand does not provide protection from contact with or proximity to an electrically charged conductor.

DO NOT Use Mobile Ladder Stand as a ground for Welding.
DO NOT Operate Mobile Ladder Stand during lightning or storms.





DANGER
Avoid Power Lines

Minimum Safe Approach Distance

Voltage Range (Phase to Phase)	Minimum Safe Approach Distance (Feet)	CE Guidance Note “Avoidance of danger from overhead lines”
0 to 300V	Avoid Contact	Adhere strictly to the governmental rulings and regulations applicable in your country.
Over 300V to 50KV	10	
Over 50KV to 200KV	15	
Over 200KV to 350KV	20	
Over 350KV to 500KV	25	
Over 500KV to 750KV	35	
Over 750KV to 1000KV	45	

FAILURE TO AVOID THIS HAZARD WILL RESULT IN DEATH OR SERIOUS INJURY!

Safety Precautions

Know and understand the safety precautions before use.



WARNING
Failure to heed the following safety
precautions could result in tip over,
falling, crushing, or other hazards leading
to death or serious injury.



Safety Precautions Continued

- **KNOW** all national, state or territorial/provincial and local rules which apply to your mobile ladder stand and jobsite.
- **WEAR** all the protective clothing and personal safety devices issued to you or called for by job conditions.
- **DO NOT** wear loose clothing, dangling neckties, scarves, rings, wristwatches or other jewelry while operating this ladder.
- **AVOID** entanglement with ropes, cords or hoses.
- **AVOID** falling. Stay within the boundaries of the handrails. Overreaching, while on the ladder, could cause instability and result in a fall. Always keep the unit in close proximity to work. Descend and relocate the unit to prevent overreach.
- **DO NOT** raise the mobile ladder stand in windy or gusty conditions.
- **DO NOT** increase the lateral surface area of the mobile ladder stand. Increasing the area exposed to the wind will decrease mobile ladder stand stability.
- **DO NOT** move or elevate the mobile ladder stand if it is not on a firm level surface. Do not move near depressions or holes of any type, loading docks, debris, drop-offs and surfaces that may affect the stability of the mobile ladder stand.
- **DO NOT** operate on surfaces not capable of holding the weight of the mobile ladder stand including the rated load, e.g. covers, drains, and trenches.
- **DO NOT** operate a mobile ladder stand that has extensions, ladders, scaffolding or other devices mounted on it to increase its size or work height. It is prohibited.
- **DO NOT** exert side forces on mobile ladder stand.
- **DO NOT** use the mobile ladder stand as a crane. It is prohibited.
- **DO NOT** sit, stand or climb on any part of the mobile ladder stand except the intended ladder rungs. It is prohibited.
- **DO NOT** raise or lower the mobile ladder stand with a person or equipment on the ladder. It is prohibited.
- **DO NOT** move the mobile ladder stand with a person or equipment on the ladder. It is prohibited.
- **ENSURE** the ladder is only raised or lowered from an operator standing on the ground.
- **BE AWARE** of overhead obstructions or other possible hazards around the mobile ladder stand when moving or lifting.
- **DO NOT** use the mobile ladder stand while the mobile ladder stand is on a truck, fork lift or other device or vehicle.
- **BE AWARE** of crushing hazards. Keep all body parts away from moving parts.
- **DO NOT** lower the ladder unless the area below is clear of personnel and obstructions.
- **BE AWARE** of blind spots when operating the mobile ladder stand.
- **STUNTS** and horseplay are prohibited.



Safety Precautions Continued

- **ENSURE ALL** wheels are in good condition and all hardware is properly tightened.
- **DO NOT** alter or disable safety devices.
- **DO NOT** climb the mobile ladder stand unless **RED LADDER AND STRUT LOCKS** are fully engaged. See Fig 2 and Fig 3. Please note that excessive force applied to these locks will casue the split “safety” pin (Fig 12 and Fig 13) to shear to reduce the risk of damaging critical components.

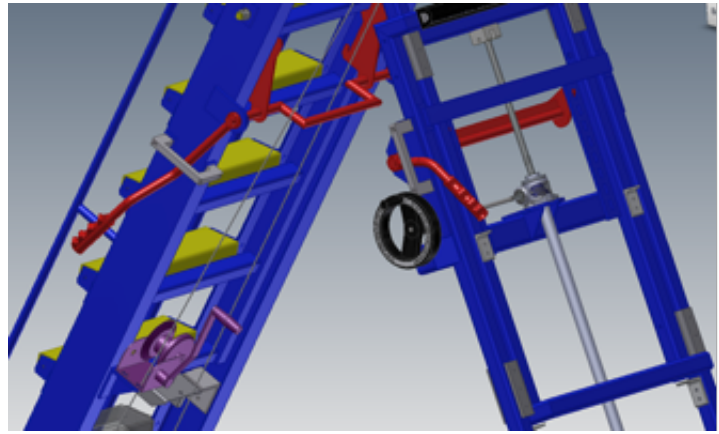


Fig 2

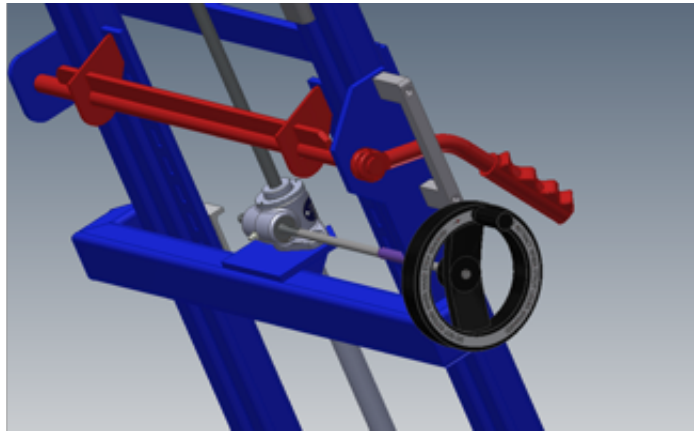


Fig 3

- **ENSURE** all wheel brakes are locked, outrigger jacks are down (if equipped) and mobile ladder stand is level prior to climbing ladder.



- **ENSURE** proper fall protection equipment is used in accordance with local rules and job specific requirements.
- **DO NOT** exceed the rated capacity of the mobile ladder stand.
- **DO NOT** position the mobile ladder stand against another object to steady the platform.



Fall Protection

If fall protection is required, by the employer or the authority having jurisdiction, Liftsafe recommends the use of an overhead fall arrest anchor point centered above the mobile ladder stand. Alternatively, a two point fall restraint anchor system connected to the handrails of the mobile ladder stand may be used. This fall restraint system would include a full body harness (example shown in Fig 6) with two short restraint lanyards that can be connected to the upper handrails on the ladder to keep an occupant within the confines of the handrails, and thus not expose the occupant to any fall hazard requiring a fall arrest.



Fig 5



Fig 6

All personal fall protection equipment must comply with applicable governmental regulations and must be inspected and used in accordance with the manufacturer's recommendations. Any fall protection system must comply with the requirements of the authority having local jurisdiction.



WARNING

Ascending and descending the ladder shall only be done using three points of contact.

- Use only equipped ladder for ascending and descending.
- Climb only when the elevating safety locks are engaged.
- Do use three points of contact ascending and descending the ladder. Enter and exit from the ground only. Face the ladder when entering and exiting.
- Three points of contact means that two hands and one foot or one hand and two feet are in contact with the ladder or the ground at all times during ascending or descending.





WARNING

An operator should not use any mobile ladder stand that:

- Does not appear to be working properly.
- Has been damaged or appears to have worn or missing parts.
- Has alterations or modifications not approved by the manufacturer.
- Has safety devices which have been altered or disabled.
- Has been tagged or blocked out for non-use or repair.

Failure to avoid these hazards could result in death or serious injury.

Jobsite Inspection

- Do not use in hazardous locations.
- Perform a thorough jobsite inspection prior to operating the mobile ladder stand, to identify potential hazards in your work area.
- Be aware of moving equipment in the area. Take appropriate actions to avoid collision.

Maintenance and Inspection Schedule

The actual operating environment of the mobile ladder stand governs the use of the maintenance schedule. The inspection points covered in **Table 1.2** Maintenance and Inspection Checklist indicates the areas of the mobile ladder stand to be maintained or inspected and at what intervals the maintenance and inspections are to be performed.

Owner's Annual Inspection Record

It is the responsibility of the owner to arrange quarterly and annual inspections of the mobile ladder stand. **Table 1.1** Owner's Annual Inspection Record is to be used for recording the date of the inspection, owner's name, and the person responsible for the inspection of the mobile ladder stand.

Replacement Parts

Use only original replacement parts. Parts such as wheels, handrails, etc. with weight and dimensions different from original parts will affect stability of the mobile ladder stand and must not be used without manufacturer's consent.



Assembly Instructions



WARNING

Inspect all components of the mobile ladder stand prior to assembling and report any missing or damaged components to Liftsafe Engineering & Service Group Inc.

1. The Engine Access Ladder Stand is shipped fully assembled with the bottom of the ladder strut disconnected to allow the stand to be collapsed down into a flat position.
2. The (2) two stainless steel bolts and nylock nuts for the bottom strut connection are shipped installed in the strut connection bracket on the base frame. Remove these bolts and nuts and set aside.
3. Place the mobile ladder stand on a flat surface in an area with an overhead crane. Alternatively, a lift truck or mobile crane may be used. Any lifting device used to assemble the Engine Access Ladder Stand must be rated for a minimum 1,000 lbs. working load.
4. “Basket” a load rated nylon sling around the tool tray of the ladder and connect it to the hook of the overhead crane. Ensure the crane is centered above the tool tray.
5. Ensure all 4 wheels are parallel with the ladder and the swivel locks are engaged.
6. Ensure the wheel brakes are NOT engaged.
7. Slowly raise the ladder with the overhead crane. The base frame will naturally roll forward as it is raised. Ensure the crane stays centered over the tool tray during the lift. Reposition if required. Stop once the bottom of the strut is in line with the strut connection brackets on the base frame.
8. Insert the stainless steel bolts and fasten the nylock nuts. Torque the nuts to “snug tight” with the nylon fully engaged on the bolt threads. DO NOT OVER TORQUE. This may result in deformation or damage to the strut connection brackets.
9. Check all other hardware on the mobile ladder stand to ensure nothing has become loose during shipping.
10. Complete a startup annual inspection and full function test prior to first use (refer to table 1.2).





WARNING

Any unit that is damaged or not operating properly must be immediately tagged and removed from service until proper repairs are completed.

Maintenance and Service Safety Tips

Maintenance and repair should only be performed by personnel who are trained and qualified to service this mobile ladder stand.

All maintenance and service procedures should be performed in a well lit and well ventilated area.

Anyone operating or servicing this mobile ladder stand must read and completely understand all operating instructions and safety hazards in this manual.

All tools, supports and lifting equipment to be used must be of proper rated load and in good working order before any service work begins. Work area should be kept clean and free of debris to avoid contaminating components while servicing.

All service personnel must be familiar with employer and governmental regulations that apply to servicing this type of equipment.

Keep sparks and flames away from all flammable or combustible materials.

Properly dispose of all waste material such as lubricants, rags, and old parts according to the relative law provisions obtaining in the country.



Maintenance and Inspection

Death or injury can result if the mobile ladder stand is not kept in good working order. Inspection and maintenance should be performed by competent personnel who are trained and qualified on maintenance of this mobile ladder stand.



WARNING

Failure to perform each procedure as presented and scheduled may cause death, serious injury or substantial damage.

NOTE: Preventive maintenance is the easiest and least expensive type of maintenance.

- Unless otherwise specified, perform each maintenance procedure with the mobile ladder stand in the following configuration:
- mobile ladder stand parked on a flat and level surface with wheel brakes engaged.
- Repair any damaged or malfunction components before operating mobile ladder stand.
- Keep records on all inspections.

Maintenance Instructions

This manual consists of four schedules to be done for maintenance on a mobile ladder stand. Inspection schedule frequency is shown below:

Inspection Schedule

Daily	A
Frequently	A + B
Annually	A + B + C
Bi-Annually	A + B + C + D

- Make copies of the maintenance and inspection checklist to be used for each inspection.
- Check the schedule on the checklist for the type of inspection to be performed.
- Place a check in the appropriate box after each inspection procedure is completed.
- Use the maintenance and inspection checklist to perform these inspections.
- If any inspection receives a fail, tag and remove the aerial platform from service.
- If any mobile ladder stand component(s) has been repaired, an inspection must be performed again before removing the tag. Place a check in the repair column.



Legend

- P = Pass
- F = Fail
- R = Repaired

Table 1.1 Owner's Annual Inspection Record

Model Number:					Serial Number:				
Recording Date	1	2	3	4	5	6	7	8	9
Recording Year #									
Owner's Name									
Inspected By									

Table 1.2 Maintenance and Inspection Checklist

Serial Number:	OPERATOR'S NAME: (PLEASE PRINT) OPERATOR'S SIGNATURE:
Model Number:	
Date:	
Time:	

As each item is inspected, write the appropriate grade in the box.

P = Pass F = Fail R = Repaired

Inspection Schedule	
Daily	A
Frequently*	A+B
Annually	A+B+C
Bi-Annually	A+B+C+D



Schedule		P	F	R
Inspection Point				
Labels	A+B+C			
Wheel Brakes	A+B+C			
Caster Swivel Locks	A+B+C			
Lifting Winch	A+B+C			
Wire Rope Assembly	A+B+C			
Ladder Safety Locks	A+B+C			
Strut Safety Locks	A+B+C			
Leveling Jacks (if equipped)	A+B+C			
Ladder Structure	A+B+C			
Base Frame Structure	A+B+C			
Hand Rails	A+B+C			
Bumpers	A+B+C			
Nylon Slide Blocks	A+B+C			
Screw Jack	A+B+C			
Hardware	A+B+C			
Screw Lubrication	A+B+C			
Ladder Lubrication	A+B+C			
Function Test	A+B+C			
Fall Restraint Anchor Points	A+B+C			

- A – Perform Visual and Daily Maintenance Inspections & Functions Test
- B – Perform scheduled Maintenance Inspection every three months based on regular use
- C – Perform scheduled Maintenance Inspection every year

Note: Make a copy of this page



Replacement Parts List

ITEM	PART NUMBER	DESCRIPTION	MATERIAL
1	100025-ASS408-5	ROLLER ASSEMBLY	
2	DF05-P044	FOAM TUBE 2" I.D. x 3 1/2" O.D. ATTACS	RUBBER
3	DF05-P048	BUMPER FAUCHER # 6254354	RUBBER
4	DF05-P049	BUMPER FAUCHER # 6254354	RUBBER
5	DF05-P049 MIRR	BUMPER FAUCHER # 6254354	RUBBER
6	DF05-P050	BUMPER FAUCHER # 6254354	RUBBER
7	DF05-P050 MIRR	BUMPER FAUCHER # 6254354	RUBBER
8	DF05-P058	DLB1200A/DLB1205A WINCH	STEEL
9	DF05-P072	3/8" DELRIN	DELRIN
10	DF05-P072_MIR	3/8" DELRIN	DELRIN
11	DF05-P112	Pulley 3628T22 MCMMASTER	STAINLESS STEEL
12	DF05-P116	SWIVEL CASTER (WT1023SEBB-FCB+SL FOR WT23)	RUBBER
13	DF05-WM10	GRIP SPAN STAIR TREAD LOWER LADDER	ALUMINUM
14	DF05-WM11	GRIP SPAN STAIR TREAD UPPER LADDER	ALUMINUM
15	JD-RHWP62U4D-026.00-STDX-STDX	SCREWJACK	STEEL
16	DF05-P151	SHOE PLATE	DELRIN
17	DF05-P152	SHOE PLATE	DELRIN
18	DF05-ASSY04	GUIDE SHOE	STEEL+DELRIN
19	DF05-ASSY05	ROPE ASSEMBLY (3/16" DIA. S.S. AIRCRAFT CABLE)	S.S.
20	DF05-P079	BLOCK	STEEL
21	100020-P336	1/8" x 3/4 Split Pin	STEEL



Fig 11



Fig 12



Approved Lubricants

PART NUMBER	DESCRIPTION	FOR
L0145-098	Lubriplate Super FML-2	Ladder and strut sides
XHP461	MobilGrease	Screw jack
XHP221	MobilGrease	Screw jack
SHC221	Mobil Lith	Screw jack
SHC460	Mobil Lith	Screw jack

Part Listing Guide

