



MODEL NO. 07344

OPERATORS
MANUAL

1/3 PLATFORM LIFT for Workman Vehicle



SAFETY INSTRUCTIONS

To assure maximum safety, optimum performance, and to gain knowledge of the product, it is essential that you or any other operator of the 1/3 Platform Lift read and understand the contents of this manual before it is operated. Pay particular attention to the **SAFETY INSTRUCTIONS** highlighted by this symbol—



The safety alert symbol means **CAUTION, WARNING or DANGER** — personal safety instruction. Failure to comply with the instruction may result in personal injury or death.

BEFORE OPERATING

1. Read and understand the contents of this manual before operating the platform lift. Become familiar with all controls and know how to stop quickly. A free replacement manual is available by sending complete model and serial number to:

The Toro Company
8111 Lyndale Avenue South
Minneapolis, MN 55420-1196

2. Do not allow children to operate the lift. Do not allow adults to operate it without proper instruction.

3. Keep all shields and safety devices in place. If a safety device, shield or decal malfunctions, becomes damaged or illegible, replace it before operation is commenced. To assure lift is in safe operating condition, tighten loose nuts, bolts and screws.

WHILE OPERATING

4. Do not use near electrical power lines. Never allow platform lift to touch power lines.

5. Do not use platform lift during lightning, thunderstorms, or high winds.

6. Never move vehicle while platform is raised.

7. Always apply parking brake before raising platform. Wheel chock use is recommended.

8. Never release parking brake while platform is raised.

9. Check safety interlocks before each use of platform. See operator's manual for safety interlock check instructions.

10. Never bypass safety interlocks.

11. Never allow riders on platform in any position.

12. Always park vehicle on firm, level surface before raising platform.

13. Never exceed 5 degree maximum angle of operation.

14. Never raise platform if bubble level indicator is outside recommended operating range.

15. Never raise platform if one or more vehicle tires are underinflated; check tire pressure daily.

16. Never pull on objects while reaching from raised platform.

17. Never use platform for carrying or lowering tree limbs, branches or heavy or uneven loads.

18. Never exceed capacity of platform lift, one person with equipment not to exceed 600 lbs (272 Kg).

19. Always wear hard hat and eye protection while operating platform or while in area below platform.

20. Never drop or throw articles from raised platform.

21. When raising platform be alert for overhead obstructions which could cause eye, head or crushing injuries.

22. Stand clear of scissor arms while platform is moving.

23. Make sure area is clear of bystanders before lowering platform.

MAINTENANCE

24. Always remove key from lift control box when platform is not in use.

25. Ensure lift is in safe operating condition. Keep nuts, bolts and screws tight.

26. Never work under raised platform without lift safety blocks installed.

27. To be sure of optimum performance and safety, always purchase genuine TORO replacement parts and accessories. Replacement parts and accessories made by other manufacturers could be dangerous. Such use could void the product warranty of The Toro Company.



SAFETY AND INSTRUCTION DECALS

The following decals are installed on the lift. If any become damaged or illegible, replace them. The decal part number is listed below and in your parts catalog. Replacement decals can be ordered from your Authorized Toro Distributor.

⚠ DANGER

CONTACT BETWEEN NON-INSULATED PLATFORM LIFT AND POWER LINES WILL CAUSE ELECTROCUTION. ELECTROCUTION WILL CAUSE SERIOUS PERSONAL INJURY OR DEATH.

- NEVER USE PLATFORM LIFT NEAR POWER LINES.
- NEVER ALLOW PLATFORM LIFT TO TOUCH POWER LINES.
- IF POWER LINE CONTACT OCCURS:
 - LOWER UNIT AWAY FROM CONTACT IF POSSIBLE.
 - DO NOT TOUCH POWER LINE.
 - NEVER TOUCH GROUND WHILE TOUCHING PLATFORM LIFT OR POWER LINE.
 - JUMP CLEAR IF NECESSARY, WITHOUT TOUCHING PLATFORM OR POWER LINE.
- IF OPERATING PLATFORM LIFT NEAR ELECTRICAL, HIGH PRESSURE OF ANY TYPE OR ROTATING EQUIPMENT:
 - ALWAYS DISCONNECT POWER TO THAT EQUIPMENT.
 - ALWAYS USE OSHA APPROVED LOCK-OUT DEVICES.
- NEVER USE PLATFORM LIFT DURING A THUNDER OR LIGHTNING STORM.

93-3702

**ON BOTH SIDES OF SCREEN
(Part No. 93-3702)**

⚠ WARNING

OPERATION OF PLATFORM LIFT WITHOUT PARKING BRAKE ENGAGED CAN RESULT IN TIP-OVER AND PERSONAL INJURY.

- ALWAYS APPLY PARKING BRAKE BEFORE OPERATING PLATFORM LIFT. THE USE OF WHEEL CHOCKS IS RECOMMENDED.
- DO NOT RELEASE PARKING BRAKE WHILE PLATFORM LIFT IS RAISED.
- DO NOT RAISE THE PLATFORM LIFT IF THE BUBBLE IS OUTSIDE OF THE OPERATING REGION OF THE LEVEL INDICATOR.

93-3710

**ON CONSOLE
(Part No. 93-3710)**

IMPORTANT

EMERGENCY LOWERING PRECAUTIONS:

- REACH INTO THE ACCESS OPENING ONLY TO ACTIVATE THE EMERGENCY LOWERING VALVE.
- PUSH AND TURN THE RED KNOB ON THE SOLENOID TO ACTIVATE EMERGENCY LOWERING VALVE.
- DO NOT PLACE HANDS OR FEET ON SCISSORS ARMS OR OTHER SUPPORTING STRUCTURE WHILE THE PLATFORM LIFT IS COMING DOWN.
- IF OPERATOR IS STRANDED UP IN THE LIFT, MAKE EVERY ATTEMPT POSSIBLE TO ALERT SOMEONE TO ASSIST IN ACTIVATING THE EMERGENCY LOWERING VALVE.
- USE EXTREME CAUTION IF YOU MUST CLIMB DOWN FROM THE DISABLED LIFT.

93-3711

**ON STEP TOE PLATE
(Part No. 93-3711)**

⚠ DANGER

IMPROPER OPERATION OF PLATFORM LIFT MAY CAUSE SERIOUS PERSONAL INJURY OR DEATH. TO REDUCE RISK TO OPERATOR AND BYSTANDERS:

- READ AND UNDERSTAND ALL SAFETY INSTRUCTIONS IN WORKMAN AND PLATFORM LIFT OPERATOR'S MANUALS AND WARNING LABELS.
- NEVER USE PLATFORM LIFT WITHOUT PROPER TRAINING AND AUTHORIZATION.
- ESTA MAQUINA PUEDE SER RIESGOSA SI SE USA EN UNA MANERA INAPROPIADA. OPERADORES DEBEN ESTAR MUY BIEN ENTRENADOS EN LA MANERA PROPIA DE OPERAR LA MAQUINA.

FOR REPLACEMENT MANUAL, SEND COMPLETE MODEL AND SERIAL NUMBER TO: THE TORO COMPANY, 8111 LYNDALE AVE. S., BLOOMINGTON, MN 55420-1196

93-3701

**ON LEFT SIDE KICK PLATE
(Part No. 93-3701)**

⚠ DANGER

LOSS OF CONTROL OR TIP-OVER WILL RESULT IF VEHICLE IS MOVED WITH PLATFORM IN RAISED POSITION AND MAY CAUSE SERIOUS PERSONAL INJURY TO OPERATOR OR BYSTANDERS.

- NEVER MOVE VEHICLE WHILE PLATFORM IS RAISED.
- ALWAYS APPLY PARKING BRAKE BEFORE RAISING PLATFORM. WHEEL CHOCK USE IS RECOMMENDED.
- NEVER RELEASE PARKING BRAKE WHILE PLATFORM IS RAISED.
- CHECK SAFETY INTERLOCKS BEFORE EACH USE OF PLATFORM. SEE OPERATOR'S MANUAL FOR SAFETY INTERLOCK CHECK INSTRUCTIONS.
- NEVER BYPASS SAFETY INTERLOCKS.
- NEVER ALLOW RIDERS ON PLATFORM IN ANY POSITION.

93-3703

**ON DRIVER SIDE OF SCREEN
(Part No. 93-3703)**

⚠ DANGER

TIP-OVER OF WORKMAN VEHICLE WHILE PLATFORM IS RAISED WILL RESULT IN PERSONAL INJURY TO OPERATOR AND/OR BYSTANDERS.

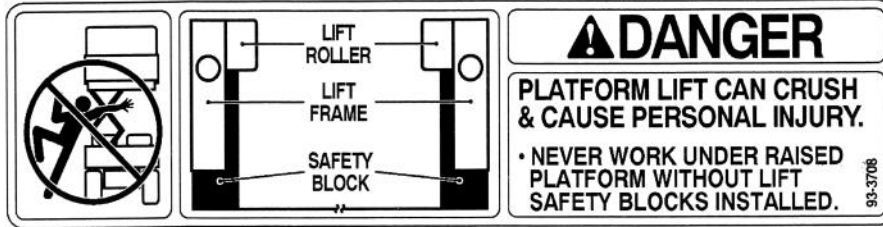
- ALWAYS PARK VEHICLE ON FIRM, LEVEL SURFACE BEFORE RAISING PLATFORM.
- NEVER EXCEED 5 DEGREE MAXIMUM ANGLE OF OPERATION.
- NEVER RAISE PLATFORM IF BUBBLE LEVEL INDICATOR IS OUTSIDE RECOMMENDED OPERATING RANGE.
- NEVER RAISE PLATFORM IF ONE OR MORE VEHICLE TIRES ARE UNDERINFLATED; CHECK TIRE PRESSURE DAILY.
- NEVER PULL ON OBJECTS WHILE REACHING FROM RAISED PLATFORM.
- NEVER USE PLATFORM FOR CARRYING OR LOWERING TREE LIMBS, BRANCHES OR HEAVY OR UNEVEN LOADS.
- NEVER EXCEED CAPACITY OF PLATFORM LIFT (ONE PERSON WITH EQUIPMENT NOT TO EXCEED 600 LBS/272 KG)
- NEVER RAISE PLATFORM DURING HIGH WINDS OR THREATENING WEATHER.
- NEVER BY-PASS SAFETY INTERLOCKS.
- NEVER ALLOW RIDERS ON PLATFORM IN ANY POSITION.

93-3704

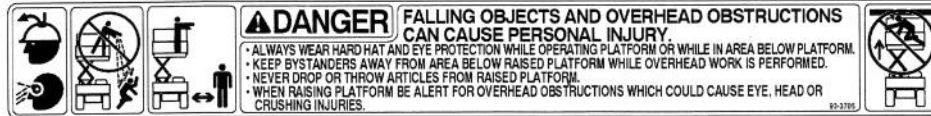
**ON OPERATORS SIDE OF SCREEN
(Part No. 93-3704)**



SAFETY AND INSTRUCTION DECALS



ON RIGHT LIFT FRAME
(Part No. 93-3708)



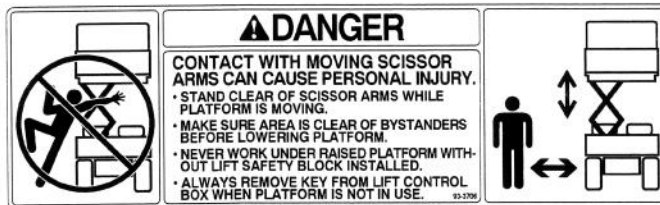
ON TOP RAIL
(Part No. 93-3705)



ON MID RAIL
(Part No. 93-3707)



ON FUEL TANK STRAPS (2)
(Part No. 93-3709)



ON LIFT ARMS & PLATFORM KICK PLATE SIDES (4)
(Part No. 93-3706)

SPECIFICATIONS

Location: Mounts in front 1/3 or middle 1/3 of Workman frame. Uses 22.25" (565 mm) of frame space.

Safety Circuits: The electrical control system requires the vehicle to be parked on a slope less than 5 degrees with the parking brake engaged in order to activate the lift.

Type: Non-insulated, elevating work platform.

Capacity: 600 lb. (272 Kg)

Platform Size: 20.69" length by 54.63 width (525 mm x 1387 mm)

Up Time (approx.): 12 sec.

Down Time (approx.): 10 sec.

Hydraulic Pump: 12 volt DC, with 1.5 qt. (1.4 l) oil reservoir

Controls: Push button Pendant Station with approx. 20 ft. cord. Key switch for authorized use.

Platform Operating Height: 3.2 ft. to 8.2 ft. (1.0-2.5 m)

Number of Occupants: One

Rated Slope: 5 degrees max.

Railings: 42.75 inches (1.08 m) above deck.

Dimensions:

Height - 82" (Including vehicle)

Width - 62.6"

Weight - 620 lbs. (281 Kg) (estimated)

LOOSE PARTS CHART

Note: Use this chart as a checklist to assure all parts necessary for assembly have been received. Without these parts, total set-up cannot be completed. Some parts may have already been assembled at factory.

DESCRIPTION	QTY.	USE
Main Wire Harness / Relays	1	Mount harness and relays to vehicle
Cable Tie	7	
Capscrew #10-24 x 1" lg.	1	
Locknut #10-24	1	
Parking Brake Switch	1	
Spacer – Long	1	
Spacer – Short	1	
Screw #10-24 x 2-1/4" lg.	1	
Screw #10-24 x 2" lg.	1	
Washer #10	2	
Nut #10-24	2	
Rear Wire Harness w/ Level Switch	1	Install on vehicle
Cable Tie	3	
Reinforcing Plate	2	Mount Lift in Front Position on Vehicle
Flange HD. Capscrew 3/8-16 x 1" lg.	4	
Flangenut 3/8-16	2	
Lift Mounting Bracket	4	Mount lift in Rear Positions on Vehicle
Capscrew 1/2-13 x 3-1/2" lg.	4	Mount Lift in Mid Position on Vehicle
Flange HD. Capscrew 5/16-18 x 1" lg.	4	
Flangenut 5/16-18	4	
Flange HD. Capscrew 5/16-18 x 2-3/4" lg.	4	Mount Lift in Mid Position on top of H.D. Hitch
Flangenut 5/16-18	4	
Circular Bubble Level	1	Affix to Vehicle Console Cover
No Step Decal	2	Affix to Fuel Tank Straps
Registration Card	1	Fill out and return to Toro
Operator's Manual	2	Read before operating machine.
Parts Catalog	1	

SET-UP INSTRUCTIONS

The 1/3 platform lift is designed to be used only with a Workman Vehicle and must be mounted with the wiring harness, level, decals, switches and all interlock switches installed.

1. Position vehicle on a clean, level surface, stop engine, engage parking brake and remove key from ignition switch. Disconnect positive cable from battery.
2. Unscrew and remove all knobs from console levers.

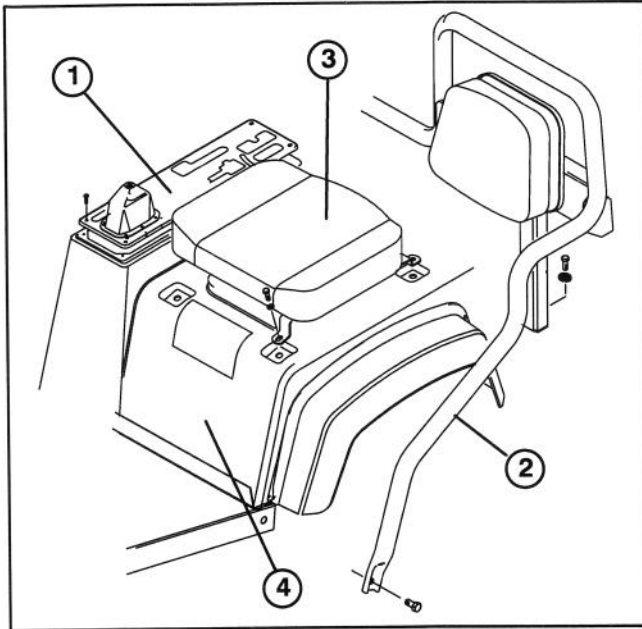


Figure 1

- | | |
|-------------------------|----------------------------|
| 1. Center console cover | 3. Seat assembly |
| 2. Seat frame | 4. Skirt & fender assembly |

3. Remove (6) screws securing outside edge of center console cover plate to frame and remove cover plate (Fig. 1).

4. Loosen (2) capscrews and locknuts securing front legs of seat frame to sides of vehicle floor (Fig. 1).

5. Remove (2) capscrews and lockwashers securing seat frame brackets to vehicle frame (Fig. 1). Pivot seat frame forward.

6. Loosen hose clamp securing overflow tube to radiator and slide tube off radiator opening (Fig. 2). Plug overflow tube to prevent coolant from escaping.

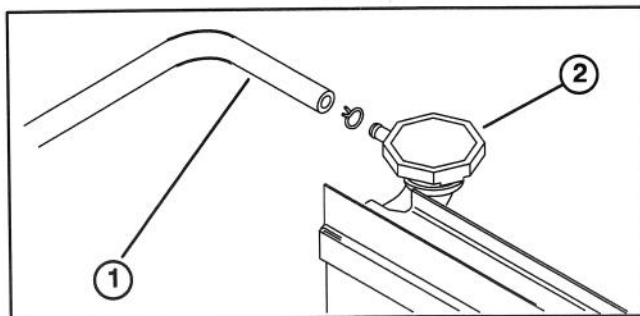


Figure 2

- | | |
|------------------|-------------|
| 1. Overflow tube | 2. Radiator |
|------------------|-------------|

CAUTION

Pressurized hot coolant escaping can cause serious burns.

- Allow engine to cool enough to touch before removing overflow tube or radiator cap.

7. Remove (4) capscrews and lockwashers securing each set of seat brackets to vehicle frame and remove seat assemblies (Fig. 1). Lift off skirt and fender assembly.

8. Remove head light bulbs from both headlights.

Note: Do not touch bulbs with fingers as oil from hands may lead to early bulb failure.

9. Remove (15) screws and washers securing front hood to vehicle frame and remove hood.

10. Insert end of harness, with male and female spade terminals on it, up through opening in vehicle floor board, toward dash panel, following vehicle wire harness. Secure harness to vehicle wire harness with (2) cable ties.

11. Locate red/black wire connected to "I" terminal of ignition switch. Remove wire from "I" terminal and plug into appropriate wire harness terminal. Plug remaining harness terminal onto ignition switch "I" terminal.

12. Remove fasteners securing wire harness cover to under side of vehicle floor and remove cover.

13. Route wire harness rearward to console area. Harness must not interfere with operation of brake pedal return spring or any moving parts.

14. Using dimensions shown in figure 3, locate, mark and drill (2) .218" (7/32") dia. holes in vehicle console.

Note: On Vehicles with serial numbers 50001 & Up, holes are provided in console.

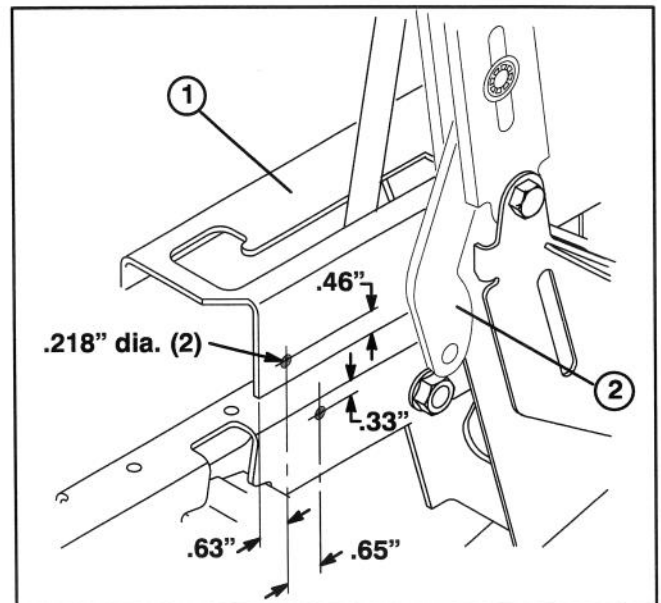


Figure 3

- | |
|------------------------|
| 1. Vehicle console |
| 2. Parking brake lever |

SET-UP INSTRUCTIONS

15. Loosely mount parking brake switch to vehicle console with (2) spacers, #10-24 screws, washers and nuts, as shown in figure 4. Different length spacers and screws are used to mount switch level.

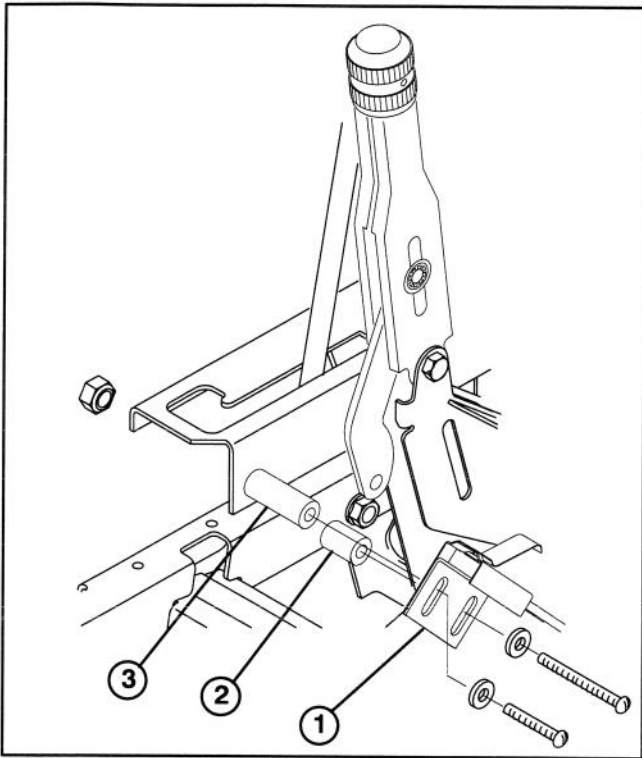


Figure 4

1. Parking brake switch
2. Short spacer
3. Long spacer

16. Plug harness connector into parking brake switch.

17. To adjust parking brake switch:

- Disengage parking brake.
- Move switch into parking brake lever until switch is activated, then tighten mounting nuts.
- Slowly engage parking brake to check operation of switch.

IMPORTANT: Do not move switch too close to lever as switch damage may occur.

18. Install wire harness cover over harness' and secure to under side of vehicle with fasteners previously removed.

19. Route harness toward valve on left frame channel. Secure harness relays to side of frame channel with a #10-24 x 1" lg. capscrew and locknut or use one of the fasteners securing valve to frame.

20. Remove locknuts securing hitch plate to rear axle (Fig. 5). Loosely mount rear harness switch bracket to rear axle with locknuts removed.

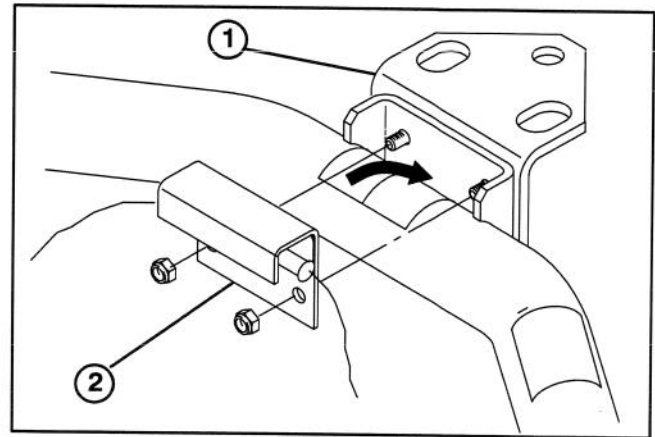


Figure 5

1. Hitch plate
2. Switch bracket

21. Make sure tires are inflated to proper specifications.

22. Using a carpenter's level, level switch bracket and secure locknuts. Use caution not to damage switches when tightening nuts.

23. Route switch harness forward, along shift cable to left side of machine. Secure harness to shift cable with cable ties.

24. If lift is to be mounted in mid position on vehicle frame, debris shield, mounted to underside of lift, is not required and must be removed from lift. When lift is mounted on a Model 07210 Air Cooled Gas Vehicle, debris shield must be removed from lift and repositioned in forward set of mounting holes in lift. When lift is mounted on all other models it can stay in position as shipped.

To mount lift in forward position on vehicle frame, follow steps 25 thru 28, then proceed to step 42.

25. Remove any accessories mounted to top of frame in forward position such as a 1/3 bed, power platform, H.D. Hitch Frame extension tubes (Fig. 6), etc.

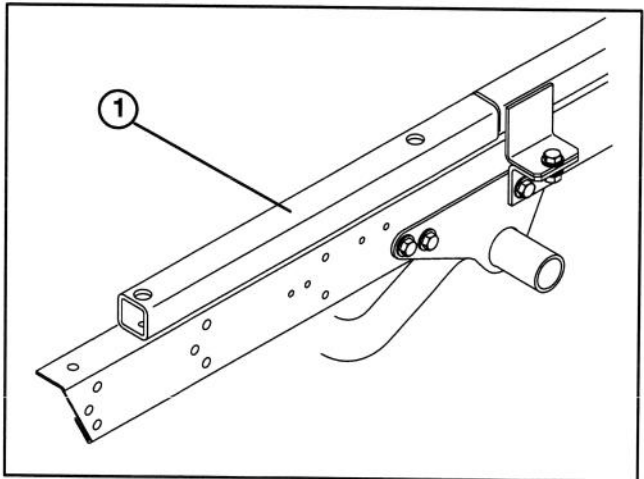


Figure 6

1. Hitch frame extension tube

26. Locate and remove the threaded insert from the mounting hole in left and right vehicle frame channels, as shown in figure 7.

SET-UP INSTRUCTIONS

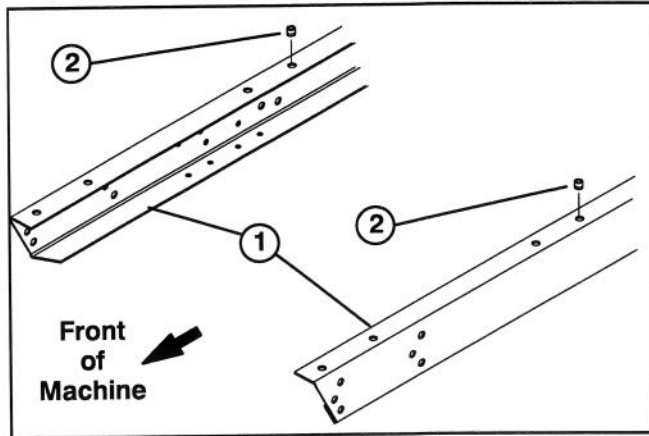


Figure 7

1. Vehicle frame channel
2. Threaded insert

Note: To prevent lift scissor arms from expanding, pick up the platform lift from the bottom when positioning on frame.

27. Position lift onto frame aligning mounting holes with holes in frame.

28. Mount each side of lift to frame channels with a reinforcing plate and (2) 3/8-16 x 1" lg. flange head capscrews and flangenuts (Fig. 8). Reinforcing plates to be used in rear mounting holes only.

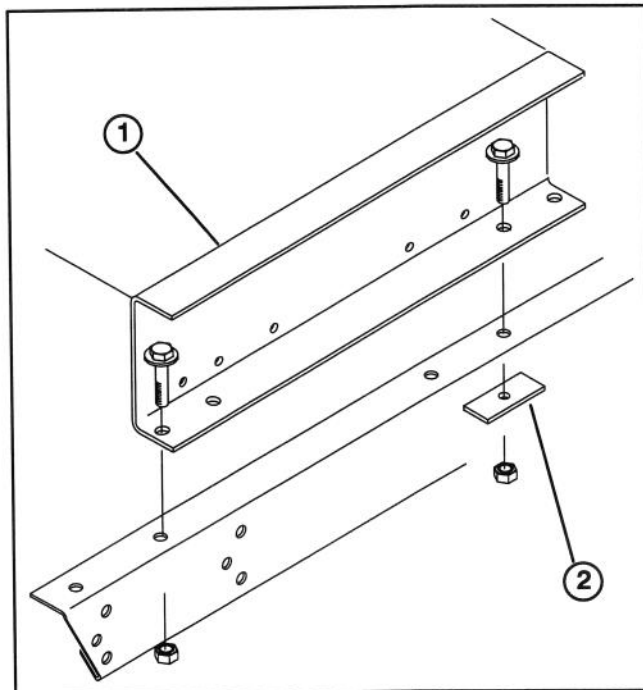


Figure 8

1. Lift
2. Reinforcing plate

To mount lift in mid position on vehicle frame, follow steps 29 thru 37, then proceed to step 42.

29. Remove any accessories mounted to top of frame such as full beds, 2/3 beds, top dressers, etc.

Note: Lift may be installed on top of H.D. Hitch Frame Tubes. If lift is to be mounted on top of H.D. Hitch Frame Tubes. proceed to step 38.

30. Remove the flange screw and locknut, shown in figure 9, securing each side of engine frame to vehicle frame.

31. Install a new 1/2-13 x 3-1/2" lg. capscrew thru engine frame and vehicle frame. Insert a lift mounting bracket onto each new capscrew and loosely secure with locknut removed. Bracket to be positioned as shown in figure 10.

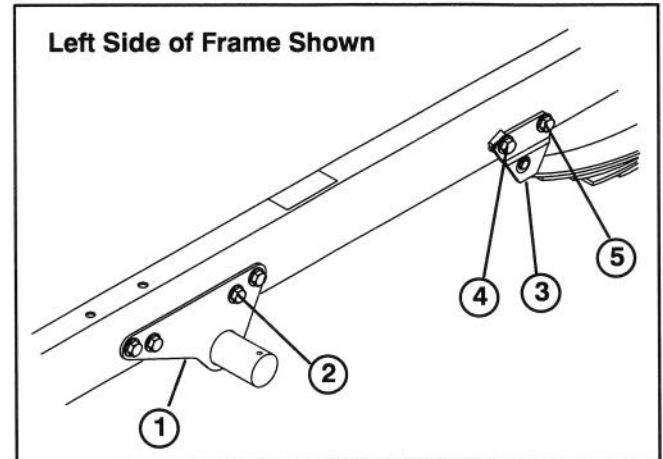


Figure 9

1. Engine frame
2. Remove this flange screw & nut
3. Spring mount
4. Remove on right side
5. Remove on left side

32. Remove the front flange screw and locknut securing right leaf spring mount to side of vehicle frame (Fig. 9).

33. Install a new 1/2-13 x 3-1/2" lg. capscrew thru leaf spring mount and vehicle frame. Insert a lift mounting bracket onto each new capscrew and loosely secure with locknut removed. Bracket to be positioned as shown in figure 10.

34. Remove the rear flange nut and locknut securing left leaf spring mount to side of vehicle frame (Fig. 9).

35. Install a new 1/2-13 x 3-1/2" lg. capscrew thru leaf spring mount and vehicle frame. Insert a lift mounting bracket onto each new capscrew and loosely secure with locknut removed. Bracket to be positioned as shown in figure 10.

Note: To prevent lift scissor arms from expanding, pick up the platform lift from the bottom when positioning on frame.

36. Position lift onto frame aligning mounting holes with holes in mounting bracket.

37. Secure lift mounting brackets to lift with (4) 5/16-18 x 1" lg. flange head capscrews and flangenuts. Tighten all fasteners.

SET-UP INSTRUCTIONS

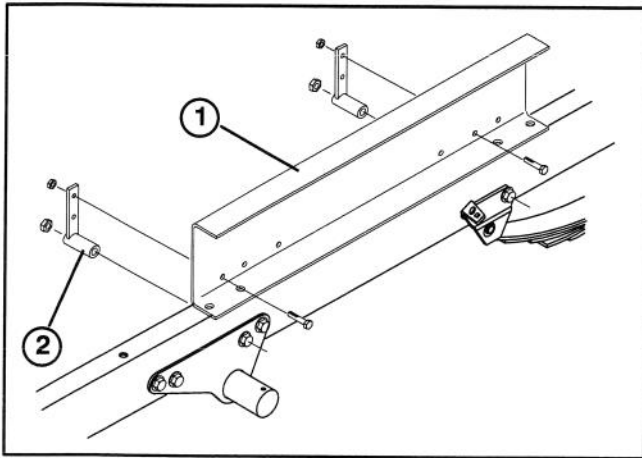


Figure 10

1. Lift
2. Lift mounting brackets

To mount lift in mid position on top of H.D. Hitch Tubes, use the following steps.

38. Using dimensions shown in figure 11, locate, mark and drill (2) .375 (3/8)" dia. holes, thru both walls, of each H.D. Hitch Frame Tube.

Note: To ease hole drilling in hitch tubes, remove capscrews and nuts securing front hitch brackets to vehicle frame channels, pivot hitch upward and drill holes from inside of each tube.

Important: Do not drill any holes in vehicle frame channels.

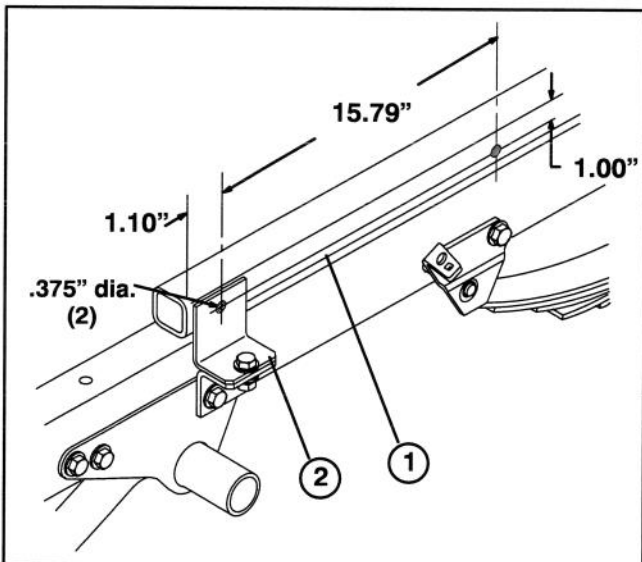


Figure 11

1. H.D. Hitch frame tube
2. Hitch bracket

39. Secure lift mounting brackets to lift with (4) 5/16-18 x 1" lg. flange head capscrews and flangenuts. Position brackets as shown in figure 12.

40. Position lift onto frame aligning mounting bracket holes with holes in hitch tubes

41. Secure lift mounting brackets to H.D. Hitch Tubes with (4) 5/16-18 x 2-3/4" lg. flange head capscrews and flangenuts.

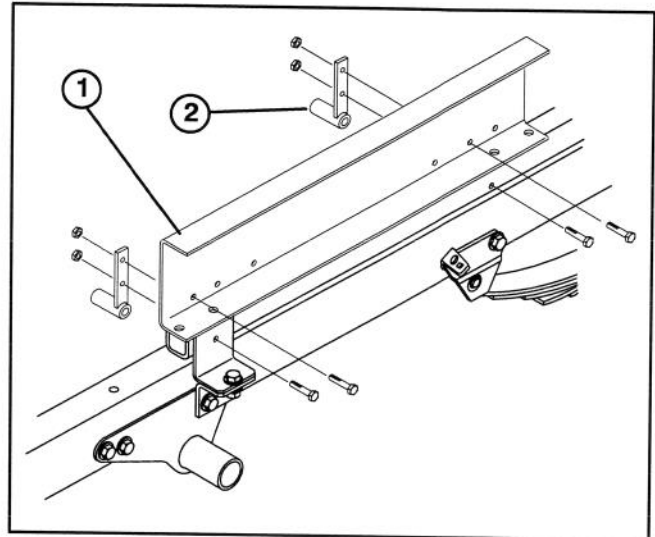


Figure 12

1. Lift
2. Lift mounting brackets

42. Connect front wire harness to connector on lift.

43. Plug rear harness into connector from front harness

44. Connect ground wire from lift to engine ground.

45. Remove nut from positive battery clamp, insert positive wire from lift onto cable clamp screw and loosely secure with nut.

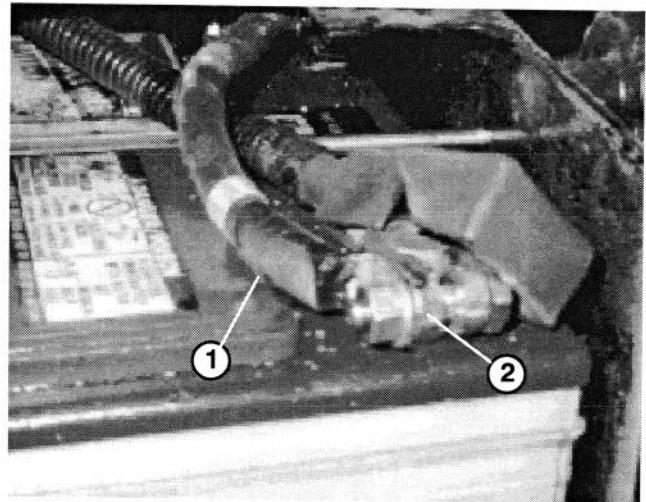


Figure 13

1. Positive lift wire
2. Positive battery cable clamp

46. Make sure wiring is clear of all hot or rotating part. Secure with cable ties as required.

47. Reinstall hood to frame with fasteners previously removed.

48. Reinstall light bulbs in head lights.

49. Reinstall skirt, seats, seat frame and console cover plate.

SET-UP INSTRUCTIONS

50. Reinstall overflow tube to radiator. Check coolant level and replenish, if required.

51. Reinstall positive battery cable to battery.

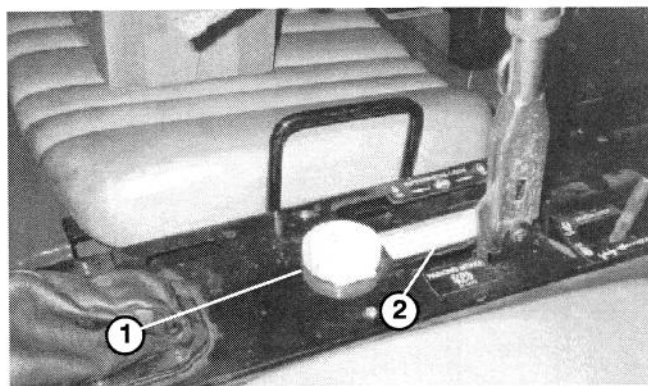


Figure 14
1. Circular level
2. Operation decal

52. Slide rubber boot over positive terminal to prevent possible short-out from occurring.

53. Affix circular level to top of console cover positioning as shown in figure 14.

54. Affix operation decal to top of console cover positioning as shown in figure 14.

55. Affix a "No Step" decal to top of each fuel tank mounting strap, as shown in figure 15.

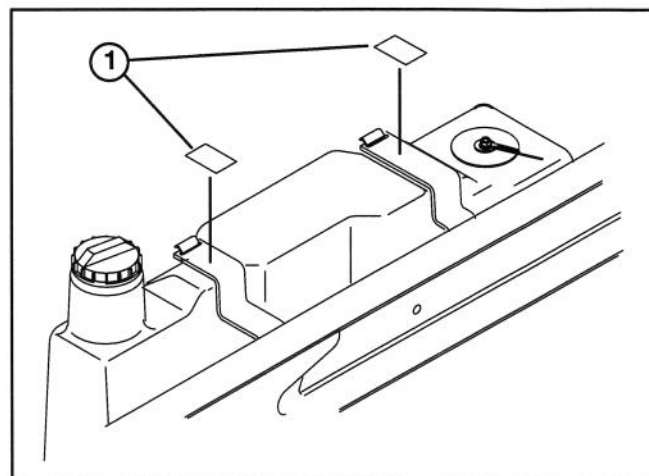


Figure 15
1. No-Step decal

BEFORE OPERATING

CHECK OIL LEVEL

The lift reservoir is filled at the factory with DTE 13 hydraulic oil. Check level before lift is first operated and every 8 hours or daily, thereafter. Capacity of system is 1.5 qt.

1. Position the vehicle on a level surface.
2. Raise lift and install safety blocks. Refer to Installing safety blocks, page 9 and Operation, page 11.

Note: If lift cannot be raised, due to lack of oil in reservoir, it may be raised with a hoist and safety blocks installed, to expose reservoir breather cap,

3. Clean area around reservoir breather cap (Fig. 16).

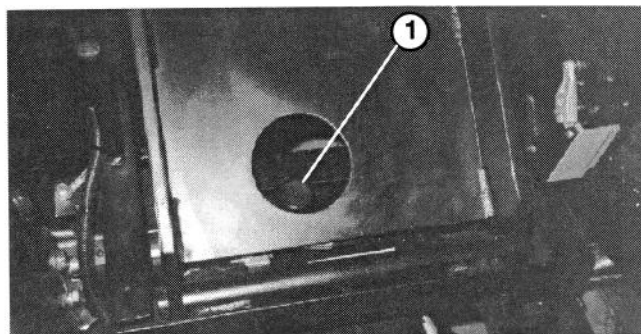


Figure 16
1. Reservoir cap

4. Unscrew breather cap from top of reservoir.

5. Insert a clean rod or stick into reservoir and check fluid level. Fluid should be within 2 inches from top of reservoir. If level is low, add enough DTE 13 hydraulic oil to achieve the proper level. **DO NOT OVERFILL.**

Note: If DTE 13 hydraulic oil is not available, DTE 24 or Dextron II ATF may be substituted. Fluids may be mixed, after initial fill of reservoir.

Note: Always use DTE 13, DTE 24, or equivalent ISO Viscosity Grade 32 oils when reservoir must be completely refilled or if cold weather is expected. The use of other fluids may inhibit the operation of the lift.

CHECK TIRE PRESSURE

Check tire pressure every 8 hours or daily to assure proper levels.

Maximum air pressure in front tires is 20 psi

Maximum air pressure in rear tires is 32 psi for 23" tires and 18 psi for 24" tires.


INSTALLING SAFETY BLOCKS

1. Position the vehicle on a level surface.
2. Set parking brake and chock wheels.
3. Rotate vehicle key switch to "ON" position. Depending what other attachments are in use, vehicle does not have to be running but key must be "ON".

BEFORE OPERATING

4. While standing next to machine, grasp pendant control and rotate lift key switch to "ON" position. Check overhead clearance and for any obstructions.

5. Press "UP" button to raise lift high enough to install safety blocks. Stand clear of scissor arms while platform is moving.

	DANGER
<p>Contact with moving scissor arms can cause personal injury.</p> <ul style="list-style-type: none">● Stand clear of scissor arms while platform is moving.● Make sure area is clear of bystanders before lowering platform.● Never work under raised platform without lift safety blocks installed.● Always remove key from lift control box when platform is not in use.	

6. Remove retaining pins securing safety blocks to side of lift frame (Fig. 17).

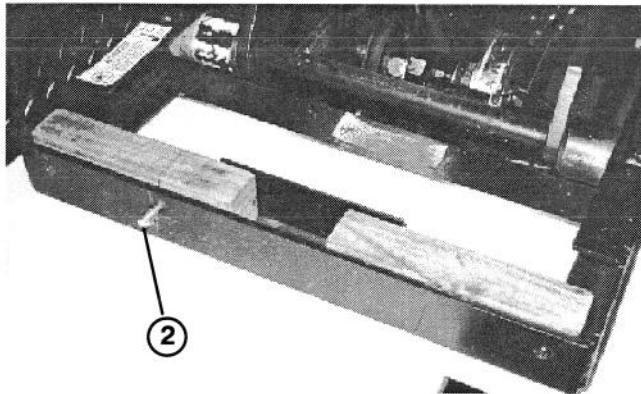


Figure 17

1. Safety block
2. Retaining pin

7. Rotate safety blocks 90° in channel and secure to ends of lift frame with retaining pins (Fig. 18).

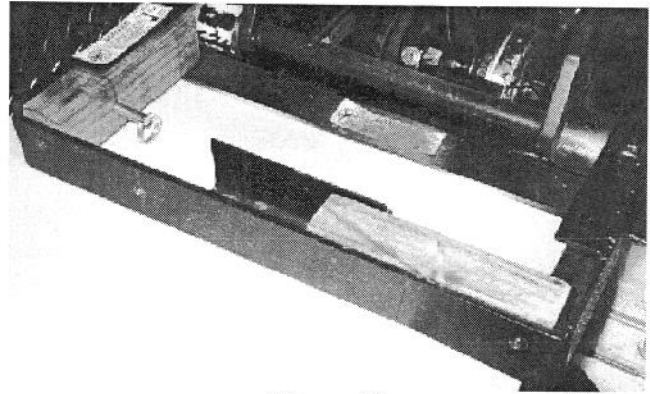



Figure 18

	DANGER
<p>Platform lift can crush and cause personal injury.</p> <ul style="list-style-type: none">● Never work under raised platform without lift safety blocks installed.● Never use safety blocks to support a load on lift.	

8. Press "DOWN" button on pendant control and lower lift until rollers gently contact safety blocks.

9. To remove safety blocks:

- Raise lift slightly.
- Remove retaining pins.
- Return safety blocks to storage position.
- Secure with retaining pins.

CONTROLS

Up Button (Fig. 19) – Press “UP” button to raise lift.

Down Button (Fig. 19) – Press “DOWN” button to lower lift.

Key Switch (Fig. 19) – Rotate key switch to authorize use of lift. Remove key from lift pendant control switch to prevent operation when unattended.

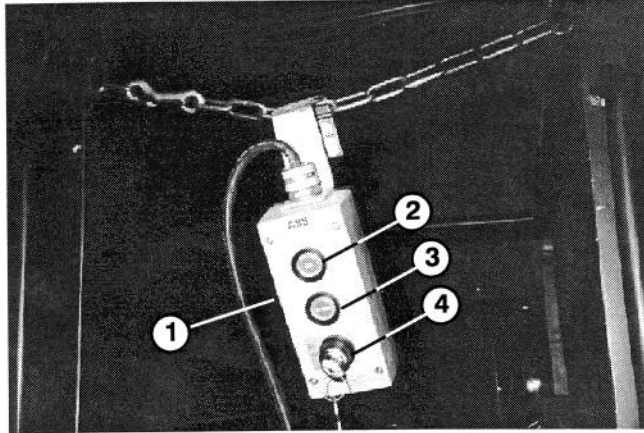


Figure 19
1. Pendant control

Emergency Lowering Valve Knob (Fig. 20) – Push in red knob on solenoid valve and rotate 180° counter-clockwise to activate emergency lowering valve. To stop lift and return to normal operation, push button in, rotate 180° clockwise and release.

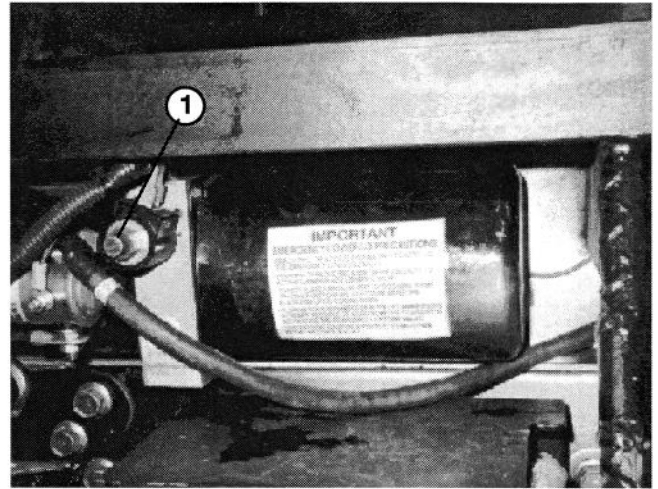



Figure 20
1. Emergency lowering valve knob

OPERATING INSTRUCTIONS

The 1/3 platform lift is designed to be used only with a Workman Vehicle and must be mounted with the wiring harness, level, decals, switches and all interlock switches installed.

**DANGER**

Improper operation of platform lift may cause serious personal injury or death. To reduce risk to operator and bystanders:

- Read and understand all safety instructions in Workman and Platform Lift Operator's Manuals and warning labels.
- Never use a platform lift without proper training and authorization.

The electrical control system of the lift requires the vehicle to be parked on a slope of less than a 5° angle and parking brake engaged in order to activate the lift circuit.

OPERATION

1. Set parking brake and chock wheels.
2. Rotate vehicle key switch to “ON” position. Depending on what other attachments are in use,

vehicle does not have to be running but key must be “ON”.

3. Climb into platform and secure safety chains across entry (Fig. 21).
4. Grasp pendant control and rotate lift key switch to “ON” position.
5. Press “UP” button to raise lift; “DOWN” button to lower lift.

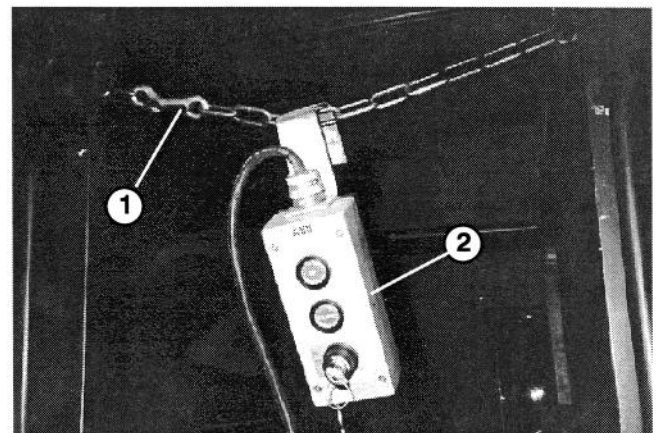


Figure 21
1. Safety chain
2. Pendant control

OPERATING INSTRUCTIONS



WARNING

Operation of platform lift without parking brake engaged can result in tip-over and personal injury.

- Always apply parking brake before operating platform lift. The use of wheel chocks is recommended.
- Do not release parking brake while platform lift is raised.
- Do not raise the platform lift if the bubble is outside of the operating region on the level indicator.



DANGER

Loss of control or tip-over will result if vehicle is moved with platform in raised position and may cause serious personal injury to operator or bystanders.

- Never move vehicle while platform is raised.
- Always apply parking brake before raising platform. Wheel chock use is recommended.
- Never release parking brake while platform is raised.
- Check safety interlocks before each use of platform. See operator's manual for safety interlock check instructions.
- Never bypass safety interlocks.
- Never allow riders on platform in any position.



DANGER

Contact between non-insulated platform lift and power lines will cause electrocution.

- Electrocution will cause serious personal injury or death.
- Never use platform lift near power lines.
- Never allow platform lift to touch power lines.
- If power line contact occurs:
 - Lower unit away from contact if possible.
 - Do not touch power line.
 - Never touch ground while touching platform lift or power line.
 - Jump clear if necessary, without touching platform lift or power line.
- If operating platform lift near electrical, high pressure or any type of rotating equipment:
 - Always disconnect power to that equipment.
 - Always use OSHA approved lock-out devices.
- Never use platform lift during a thunder or lightning storm.
 - Lower platform lift and avoid open areas in the event of threatening weather.

EMERGENCY LOWERING

1. Reach into access opening only to activate emergency lowering valve.
2. Push in red knob on solenoid valve (Fig. 22) and rotate 180° counter-clockwise to activate emergency lowering valve.



DANGER

Contact with moving scissor arms can cause personal injury.

- Stand clear of scissor arms while platform is moving.
- Make sure area is clear of bystanders before lowering platform.
- Never work under raised platform without lift safety blocks installed.
- Always remove key from lift control box when platform is not in use.

NOTE: If lift does not operate:

- Make sure vehicle key and lift key are in "ON" position.
- Make sure vehicle is parked on less than a 5° angle slope
- Make sure vehicle parking brake is "ON".

6. When finished with work operation, lower lift all the way down to stops and remove key from lift pendant control to prevent operation when unattended.

IMPORTANT: If engine kills when releasing parking brake, it may indicate that lift is not completely lowered. Vehicle can not be driven with lift raised at any height.

OPERATING INSTRUCTIONS

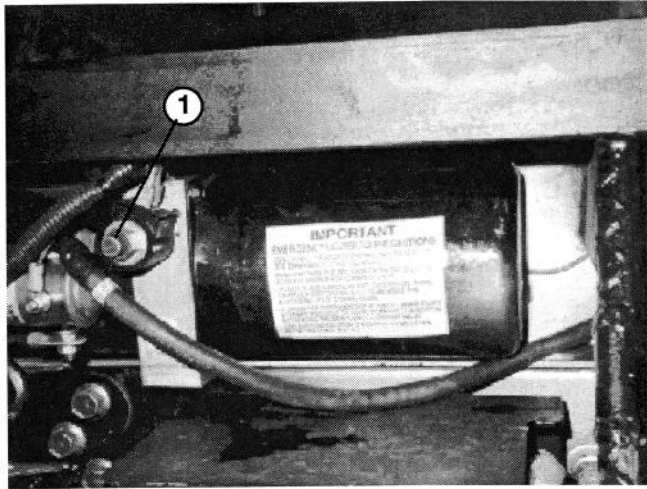


Figure 22
1. Emergency lowering valve knob

3. To stop lift and return to normal operation, push button in, rotate 180° clockwise and release.



DANGER

Falling or jumping from raised platform will cause personal injury.

- Secure both handrail snap chains across opening before raising platform.
- Never pull on objects while reaching from raised platform.
- Never reach over handrails unless both feet are on platform deck.
- Never step above level of platform deck or use ladders, step risers or platform rails to extend working height of platform.
- If you must exit raised platform, slowly and carefully climb down outside of scissor arm frame.

OPERATING TIPS

The electrical system, battery and hydraulic lift cylinder are not designed for continuous use. Allow some time, approximately 1-1/2 to 2 minutes, between lift operations to maintain operating temperatures.

Frequent use without the engine running or idling may discharge the battery. If engine operation is not possible to keep battery charged, it may be necessary to supplement operation with an over night battery charger.

Check the specific gravity of the fluid in the battery to assure it is fully charged. Refer to Battery Care, page 14.



DANGER

Tip-over of Workman Vehicle while platform is raised will result in personal injury to operator and/or bystanders.

- Always park vehicle on firm, level surface before raising platform.
- Never exceed 5 degree maximum angle of operation.
- Never raise platform if bubble level indicator is outside recommended operating range.
- Never raise platform if one or more vehicle tires underinflated; check tire pressure daily.
- Never pull on objects while reaching from raised platform.
- Never use platform for carrying or lowering tree limbs, branches or heavy or uneven loads.
- Never exceed capacity of platform lift (one person with equipment not to exceed 600 lbs.)
- Never raise platform during high winds or threatening weather.
- Never by-pass safety interlocks.
- Never allow riders on platform in any position.

NOTE: Top rail of platform lift is higher than vehicle ROPS so be alert to low overhead areas when transporting (driving) vehicle.



DANGER

Falling objects and overhead obstructions can cause personal injury.

- Always wear hard hat and eye protection while operating platform or while in area below platform.
- Never drop or throw articles from raised platform.
- When raising platform be alert for overhead obstructions which could cause eye, head or crushing injuries.

MAINTENANCE

CHECK SAFETY CIRCUITS

The electrical safety circuits of the lift require the vehicle to be parked on a slope of less than 5 degrees and parking brake to be engaged in order to activate the lift circuit.

To verify parking brake switch operation:

1. Position the vehicle on a level surface, set parking brake and chock wheels.
2. Rotate vehicle key switch to "ON" position. While standing next to machine, grasp pendant control and rotate lift key switch to "ON" position. Press "UP" button and raise lift a few inches. Release button.
3. Release parking brake and try to raise lift again. Lift must not rise. If lift does not raise, safety circuit is operating correctly and proceed to next step. If lift rises there is a malfunction in the electrical circuit that must be repaired before operating lift.
4. With the platform partially raised and parking brake released, try to start engine. If engine starts but does not remain running, safety circuit is operating correctly. Lower lift all the way and proceed to next step. If engine starts and remains running there is a malfunction in the electrical circuit that must be repaired before operating lift.

To verify rear axle level switch operation:

1. Position one side of vehicle (rear axle) on a slope greater than 5° (floor jack, mound of material or small hill).
2. Set parking brake and chock wheels.
3. Rotate vehicle key switch to "ON" position. While standing next to machine, grasp pendant control and rotate lift key switch to "ON" position. Press "UP" button and try to raise lift. If lift does not raise, safety circuit is operating correctly. Raise opposite side of machine and repeat procedure. If lift rises, with either side of machine in raised position, there is a malfunction in the electrical circuit that must be repaired before operating lift. Lower lift immediately.

BATTERY CARE

1. Battery electrolyte level must be properly maintained and the top of the battery kept clean. If the machine is stored in a location where temperatures are extremely high, the battery will run down more rapidly than if the machine is stored in a location where temperatures are cool.

2. Keep top of battery clean by washing periodically with a brush dipped in ammonia or bicarbonate of soda solution. Flush the top surface with water after cleaning. Do not remove the fill cap while cleaning.
3. Battery cables must be tight on terminals to provide good electrical contact.
4. If corrosion occurs at terminals, remove battery cover, disconnect cables, negative (-) cable first and scrape clamps and terminals separately. Reconnect cables, positive (+) cable first and coat terminals with petroleum jelly.
5. Check the electrolyte level every 50 operating hours or, if machine is in storage, every 30 days.
6. Maintain cell level with distilled or demineralized water. Do not fill cells above the bottom of the fill ring inside each cell.
7. If the machine will be stored for more than 30 days, remove the battery and charge it fully. Either store it on the shelf or on the machine. Leave the cables disconnected if stored on the machine. Store the battery in a cool atmosphere to avoid quick deterioration of the charge in the battery. To prevent battery from freezing, make sure it is fully charged. The specific gravity of a fully charged battery is 1.250.



DANGER

Battery electrolyte contains sulfuric acid which is a deadly poison and it causes severe burns.

- **If you carelessly drink electrolyte you could die or if it gets onto your skin you will be burned.**
- **Do not drink electrolyte and avoid contact with skin, eyes or clothing.**
- **Wear safety glasses to shield your eyes and rubber gloves to protect your hands.**
- **Fill the battery where clean water is always available for flushing the skin.**
- **Follow all instructions and comply with all safety messages on the electrolyte container.**

