

INSTRUCTION MANUAL

WARNING IMPORTANT SAFETY RULES

Please study carefully these Safety Rules and Operating Instructions and make sure all personnel read and understand them completely before using the Denka Lift.



TELESCOPING BOOM LIFT

DENKA-LIFT

SAFETY RULES AND OPERATING INSTRUCTIONS



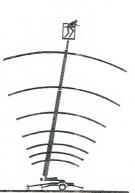
Do not use within 10 ft. of power lines.



Do not use when base is not level.



Do not stand on midrail or top edge of platform.



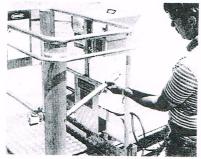
If horn sounds, retract first and then lower boom. DO NOT CON-TINUE TO OPERATE.

SAFETY RULES

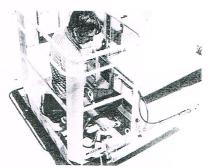
- Before using Denka-Lift, thoroughly inspect the machine for damage such as cracked welds or structural members, loose or missing fasteners, hydraulic leaks, or damaged cables or hoses. DO NOT use damaged equipment. DO NOT change operating or safety systems.
- Before operating Denka-Lift, all four outriggers must be extended and locked. All four leveling jacks must be in contact with a firm surface. THE BASE OF THE MACHINE MUST BE LEVEL.
- Always check clearances above, below, and to the sides of the platform and boom.
- **Do not** operate the machine within 10 feet of electric power lines. This machine is NOT insulated.
- Always attach safety belt lanyard to attachment rings on the platform.
- Do not exceed maximum platform load.
- Do not sit, stand, or climb on midrail or top edge of platform.
- Do not use planks, ladders, or other devices to increase height of platform.
- Do not use the boom as a crane.
- Do not recharge batteries near sparks or open flame. Batteries that are being charged emit highly explosive hydrogen gas.
- Do not operate machine during charging cycle.
- Do not stand under platform when in operation.
- Do not rotate the machine with the outriggers stowed.
- Unit should be unhitched from the towing vehicle before use.

PRE-OPERATION CHECK

- (1) Turn Power switch (H) to "ON" position.
- (2) If battery voltage indicator (K) reads below 19.5, the boom will not go up or extend. Batteries need charging. [See Operation. Step (9)].
- (3) Check that Emergency Stop switch (3) is released. (Twist red knob clockwise.)
- (4) Check that Control Switch (J) is in "Ground Control" position.
- (5) Check all ground controls for damage and proper function.



(8) Enter platform, push back latch, lift mid-rail.



(9) Attach lanyard from safety belt to eye ring at corner of platform.

- (6) Extend boom as far as it will go by pressing "Extend Boom" switch (2). This will lower platform to provide easy access.
- (7) Place Control Switch (Jin "Platform Control" position.
- (10) Check that Emergency Stop switch is released (twist clockwise).
- (11) Check that Moment Limiting system is functioning by trying to elevate boom from platform while boom is extended as far out as it will go. If functioning properly, the boom will not elevate unless you first retract it. This system is designed to limit the amount of side reach so that the machine will remain stable. NEVER OPERATE UNIT IF MOMENT LIMITING SYSTEM IS NOT WORKING PROPERLY.

OPERATION

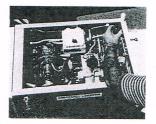
- (1) Always check clearances above, below and to the sides of the platform and boom before elevating, extending, retracting or rotating
- (2) Retract boom until Moment Limiting system will allow eleva-
- (3) Elevate boom first (before extending) by pushing forward on Right joystick.
- (4) Extend boom (after elevating) by pulling back on Left joystick.
- (5) Rotate boom right or left by moving Left joystick in desired direction.
- (6) When finished with elevated

- work, RETRACT BOOM FIRST (before lowering) by pushing Left joystick forward.
- (7) After boom has been retracted, lower boom by pulling back on Right joystick.
- (8) Machine is equipped with a warning horn. If horn sounds, retract first and then lower boom immediately. Check for problem and correct it before using unit. The following conditions will cause warning horn to sound:
 - A) Unit is not level.
 - B) Boom hydraulic valve is leaking.
 - C) Fault in primary moment unit switch circuit.

(9) The unit is equipped with an automatic battery charger. Connect battery charger to a 110V/6 Amp A.C. power source. Battery condition is shown by indicator lights (L) Charger will turn off when batteries are fully charged. Do not operate during charging cycle.



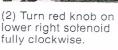
EMERGENCY LOWERING

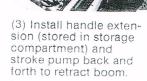


(1) Turn black knob fully clockwise.

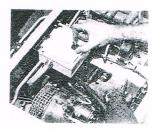


lower right solenoid fully clockwise.





Note: Boom must be fully retracted before it can be lowered.

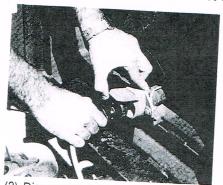


(4) After boom is fully retracted, it can be lowered by turning switch on Manual Lowering box clockwise and turning red knob, on left side of valve block. counter clockwise.

NOTE: (1) The lowering speed can be regulated by turning red knob in or out (2) You must hold switch in clockwise position to lower boom

PREPARATION FOR USE

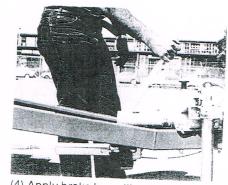
(1) Position unit on a firm, level surface as close to work location as possible.



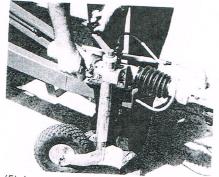
(2) Disconnect light cable from towing vehicle.



(3) Disconnect light cable from underside of platform.



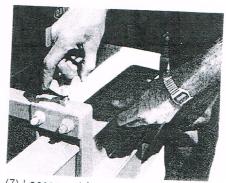
(4) Apply brake by pulling back on hand



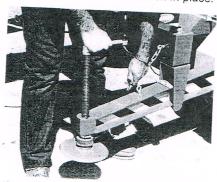
(5) Lower support wheel by loosening screw and allowing wheel to lower to ground. Tighten screw to lock in place.



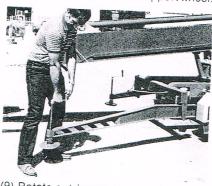
(6) Disconnect unit from towing vehicle by pulling up on release lever and at the same time crank down the support wheel.



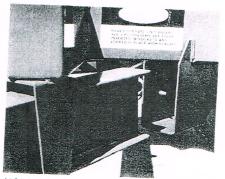
(7) Loosen outrigger retaining screw.



(8) Extend rear outriggers first, then front outriggers.



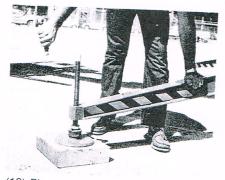
(9) Rotate outriggers to operating posi-



(10) Insert all four outriggers fully into



(11) Secure all four outriggers by tightening screws.



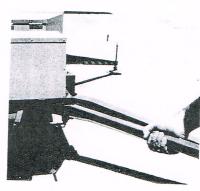
(12) Place wood blocks (4"x12"x12") under each outrigger jackscrew pad & crank down jackscrews until unit is supported by all 4 outriggers. Adjust jackscrews until unit is level. Bubble must be centered in orbit level. Never operate unit unless it has



Note: Boom will not elevate or extend unless all four outriggers are properly installed.

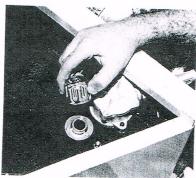
MANUAL ROTATION



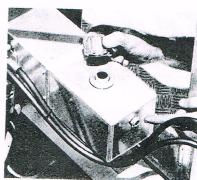


(1) Boom can be rotated manually by installing rotation lever in socket adjacent to battery box. Push the lever manually in either direction to rotate boom.

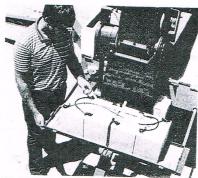
REGULAR MAINTENANCE



(1) Check hydraulic oil level in main hydraulic tank.



(2) Check hydraulic oil level in platform leveling tank.



(3) Check water level in batteries.

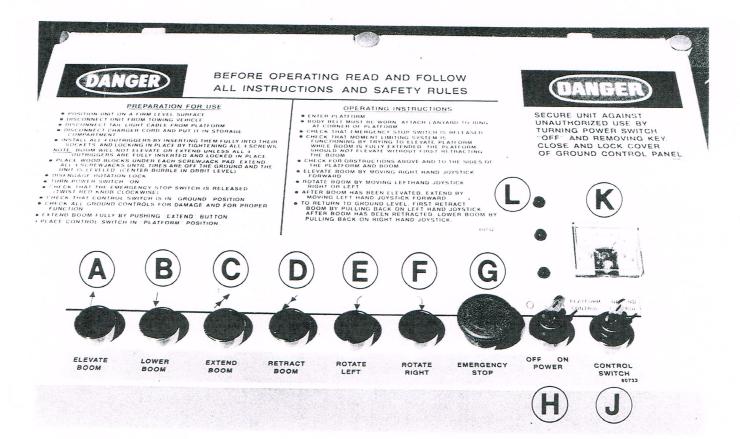
SERVICE PROCEDURE

Service Intervals

	Weekly	2 Weeks	Monthly	2 Months	Yearly	2 Years
Check fluid level in batteries					-	100
Inspect cables, sheaves, springs		•				
Clean and grease slide arrangement						
Grease slew protentiometer gear						
Check hydraulic oil level (2 tanks)				•		
Empty, clean and refill hydraulic tanks						
Check hydraulic hoses for leaks or damage					•	
Replace hydraulic hoses						
Inspect and lubricate chains						
Clean and grease slide bearing strips						
Grease chain rollers			•			
Grease cylinder suspension						
Oil all moving parts of moment limit regulator			9			
Grease main axle on boom			9			

NOTE: Unit should be returned to dealer annually for required maintenance of internal boom components.

CONTROL IDENTIFICATION



GROUND CONTROLS

- A Elevate Boom switch press to operate.
- (B) Lower Boom switch press to operate.
- © Extend Boom switch press to operate.
- Retract Boom switch press to operate.
- E Rotate Left switch press to operate.
- F Rotate Right switch press to operate.

PLATFORM CONTROLS

- M Emergency Stop switch push to stop all powered functions of unit.
- N Left joystick
 - 1. Pull back to extend boom.
 - 2. Push forward to retract boom.
 - 3. Move to right to rotate boom to right.
 - 4. Move to the left to rotate boom to left.
- Right joystick
 - 1. Push forward to elevate boom
 - 2. Pull back to lower boom.

Note: To operate joystick controls, lift lower portion of knob with fingers.

- © Emergency Stop switch press to stop all powered functions of unit. To release switch to operate unit, twist red knob clockwise.
- (A) Power switch. To operate unit switch must be in the "ON" position.

DANGER!! After using unit, secure against unauthorized use by turning power key

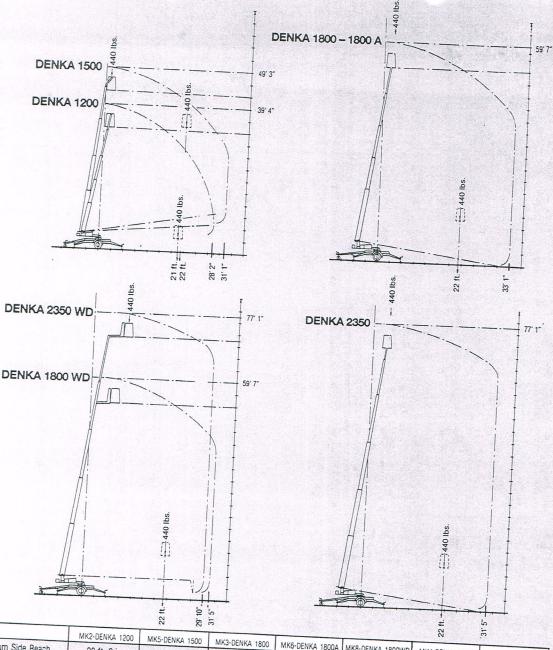
switch "OFF" and removing key.

- ① Control Switch to operate unit from ground, place in "Ground Control" position. To operate from platform, place in "Platform Control" position.
- (R) Battery voltage indicator.
- (L) Battery charger indicator lights (3). When charging, green indicates full battery charge, red indicates unit is being charged, yellow indicates that in three to six hours the batteries will be fully charged.





Note: To operate joystick controls, lift lower portion of knob with fingers.



7. F. T.	MK2-DENKA 1200	MK5-DENKA 1500	MKS DEFINE			23	.31				
Maximum Side Reach	28 ft. 2 in.	31 ft. 1 in.	MK3-DENKA 1800	MK6-DENKA 1800A	MK8-DENKA 1800WD	MK4-DENKA 2350	MYZ DENIZA COM				
Maximum Working Height	39 ft. 4 in.		33 ft. 1 in.	33 ft. 1 in.	31 ft. 5 in.	31 ft. 5 in.	MK7-DENKA 2350W				
Weight	SECRETARY DESCRIPTION OF THE PROPERTY OF THE P	49 ft. 3 in.	59 ft. 7 in.	59 ft. 7 in.	59 ft. 7 in.		29 ft. 10 in.				
Transport Height	2,844 lbs.	3,086 lbs.	4,299 lbs.	3,924 lbs.	4,145 lbs.	77 ft. 1 in.	77 ft. 1 in.				
	5 ft. 5 in.	7 ft. 3 in.	6 ft. 11 in.	7 ft. 3 in.		4,453 lbs.	4,740 lbs.				
Transport Width	5 ft. 3 in.	5 ft. 3 in.	5 ft. 3 in.	OPEN AND AND AND AND AND AND AND AND AND AN	6 ft. 8 in.	6 ft. 11 in.	6 ft. 9 in.				
Transport Length	20 ft. 5 in.	22 ft. 8 in.		5 ft. 3 in.	5 ft. 3 in.	5 ft. 3 in.	5 ft. 3 in.				
Battery Capacity -		22 11. 0 111.	24 ft. 5 in.	24 ft. 6 in.	25 ft. 5 in.	27 ft. 0 in.					
Turning Circle -	4 @ 6 Volt = 24 Volts (240 Amp/Hrs.) - 27 ft. 0 in. 27 ft. 9 in.										
Built-in Battery Charger -	360° Continuous —										
Proportional Controls	No T	59 (1-02/98/2015)	110 Volt/6	Amp - 24 Volt/	35 Amp ———						
	140	No	Yes	Yes	Yes	Yes	romania de la composición del composición de la composición de la composición del composición de la co				

SALES RENTAL



Call toll free (800) 437-0770

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