

# INSTRUCTION MANUAL

## WARNING

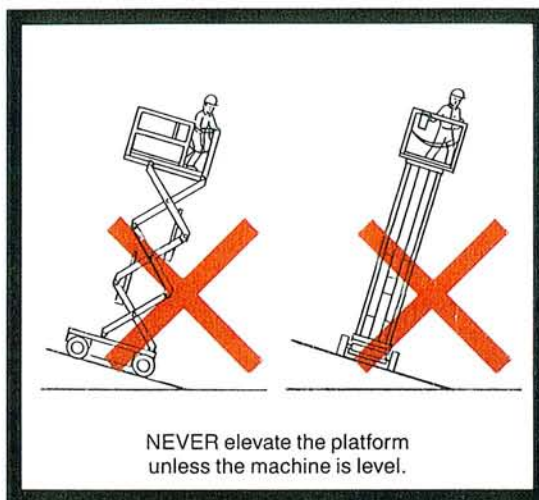
### IMPORTANT SAFETY RULES

Please! Carefully study these Safety Rules and Operating Instructions. Make sure all personnel read and understand them completely before using an Up-Right XL-C Series work platform.

**UP-RIGHT  
XL-C SERIES**

XL-19C SERIAL NO. THRU 4115  
XL-19CW SERIAL NO. THRU 5190  
XL-24 SERIAL NO. THRU 3124

## SAFETY RULES & OPERATING INSTRUCTIONS



## SAFETY RULES

### BEFORE USING An Up-Right XL-C Series Work Platform:

- Thoroughly **INSPECT** the machine for cracked welds, loose hardware, hydraulic leaks, damaged control cable, loose wire connections and tire damage.
- **DISTRIBUTE** all loads evenly on the platform. See back cover for maximum platform load.
- **SURVEY** the work area for surface hazards such as holes, drop-offs, bumps and debris before operating machine.
- **LOOK** up, down and around for over head obstructions and electrical conductors.
- **HOOK** chains across entrance after mounting platform.
- **CHECK** that all guardrails are in place and secured with all fasteners in place.
- **NEVER** use damaged equipment. (Contact UP-RIGHT for instructions. See toll free numbers on back cover.)
- **NEVER** change operating or safety systems.
- **NEVER** operate the machine within ten feet of power lines. **THIS MACHINE IS NOT INSULATED.**
- **NEVER** elevate the platform or drive the machine while elevated unless the machine is on firm level surface.
- **NEVER** attach overhanging loads or increase platform size.
- **NEVER** use ladders or scaffolding on the platform.
- **NEVER** sit, stand or climb on guardrail or midrail.
- **NEVER** climb down scissors with the platform elevated.
- **NEVER** recharge batteries near sparks or open flame; batteries that are being charged emit highly explosive hydrogen gas.
- **NEVER** perform service on machine while platform is elevated without blocking the scissors.
- When transporting a gas power option, turn engine fuel valve to the off position. Keep gas power option level to prevent fuel spillage.



# PRE-OPERATIONAL & SAFETY INSPECTION INSTRUCTIONS

*Read and fully understand all safety rules  
and then follow these steps each day before use.*

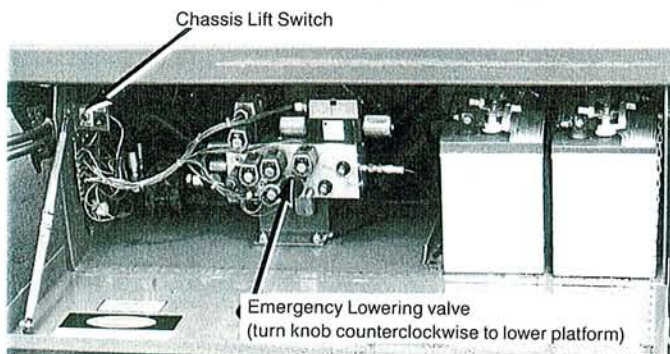


Figure 1. Power Module

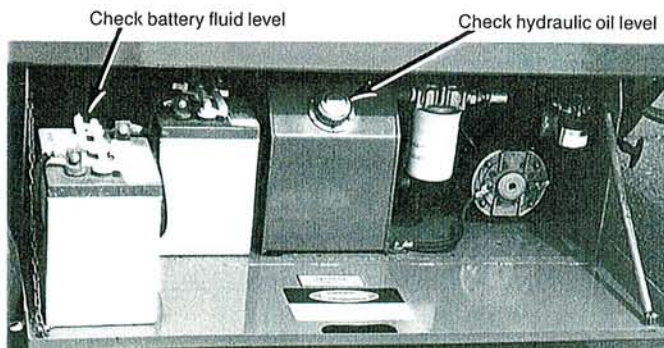


Figure 2. Energy Module

1. Visually inspect for any damage or missing parts.

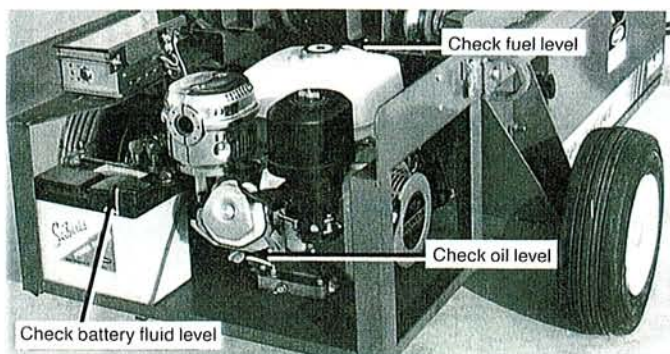


Figure 3. Optional Gas Energy Module

2. Open module covers.
3. Check hydraulic oil level with platform fully lowered. Oil should be visible in strainer (Figure 2). Use Mobile DTE 25 or equivalent.
4. Check battery fluid level (Figures 2 and 3).
5. Check state of battery charge (see Maintenance).
6. Check that AC extension cord has been disconnected from charger.
7. FOR GAS POWER OPTIONS: Check fuel level. Check oil level. Ensure all quick disconnect hoses are properly connected.

**— WARNING —**  
**PERFORM FOLLOWING CHECKS FROM THE GROUND**

8. Unhook control console from front guardrail and hold it while performing these steps.
9. Check that emergency stop switch on control console is in "ON" position. When switch guard is closed, emergency stop switch will automatically go to "OFF" position.
10. WARNING: Stand clear of machine and protect control console cable from possible damage while performing these checks.
11. Turn key switch to "DRIVE" position.
12. Push drive switch to "FORWARD" position then "REVERSE" position to check for speed and directional control.
13. Move steering switch right and then left to check steering control.
14. Rehook control console to front guardrail.
15. Move machine, if necessary, to unobstructed area to allow for full elevation.
16. Turn key switch to "LIFT" position.
17. Push chassis lift switch to "UP" position and fully elevate platform (Figure 1).

**NOTE:** Step 12 should be done with drive range selector in "LOW" and "HIGH".

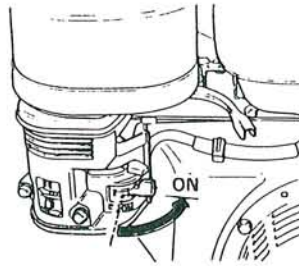


**— WARNING —**  
**DO NOT ENTER SCISSORS LINKAGE AREA WHILE ELEVATED**

18. While platform is elevated, visually inspect from outside of scissors linkage area scissors linkage, rollers, lift cylinder, cables and hoses for any damage or erratic operation.
19. Check for missing or loose parts and fasteners.
20. Lower platform partway by pushing chassis lift switch to "DOWN" (Figure 1).
21. Check for audible down alarm function while lowering.
22. Finish lowering platform by opening emergency lowering valve to check for proper valve operation (see "Emergency Lowering").
23. Close emergency lowering valve (Figure 1).
24. After all the preceeding checks have been completed, close module covers.

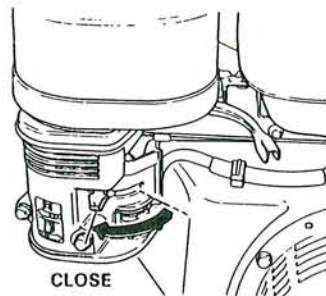
## STARTING THE XL-C SERIES EQUIPPED WITH THE GAS POWER OPTION:

1. Turn the fuel valve to the "ON" position.

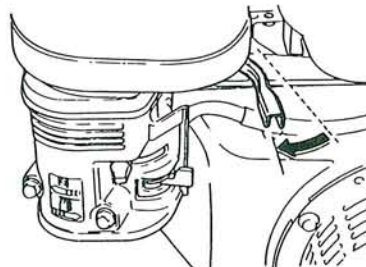


2. Move the choke lever to the "CLOSE" position.

**NOTE: Do not use the choke if the engine is warm or the air temperature is high.**



3. Move the throttle lever slightly to the left.



4. Start the engine.
  - With recoil starter: Turn the engine switch to the "ON" position.

**NOTE: Do not use the electric starter for more than 5 seconds at a time. If the engine fails to start, release the switch and wait 10 seconds before operating the starter again.**

**When the engine starts, allow the engine switch return to the "ON" position.**

### STARTING ENGINE FROM THE CONTROLLER:

1. Turn fuel valve to the "ON" position. Check that emergency stop is in "ON" position. When switch guard is closed, emergency stop switch will automatically go to "OFF" position.
2. Turn mode selector switch (Figure 6) to "START". When engine starts, allow key to return to "ON" position.
3. Perform Pre-Operational and Safety inspection checks.

## PREPARATION FOR USE

***Ensure that pre-operation and safety inspection has been completed and any deficiencies have been corrected.***



Figure 4.

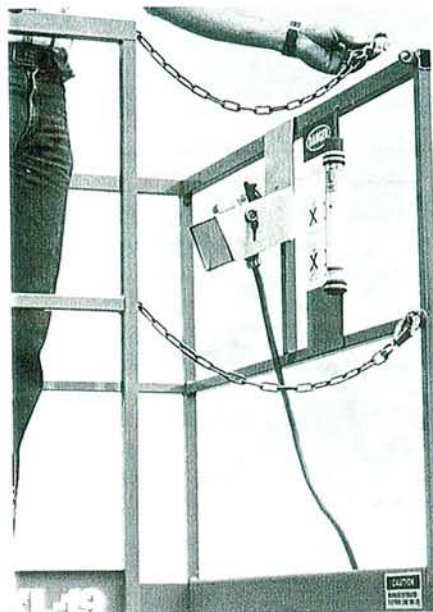


Figure 5.

1. Hang control console on guardrail (Figure 4).
2. After mounting platform, hook chains across entrance. Also, check that chain at middle rear guardrail is hooked into position (Figure 5).

## OPERATING INSTRUCTIONS

*Understand all functions of all controls before operating machine.*

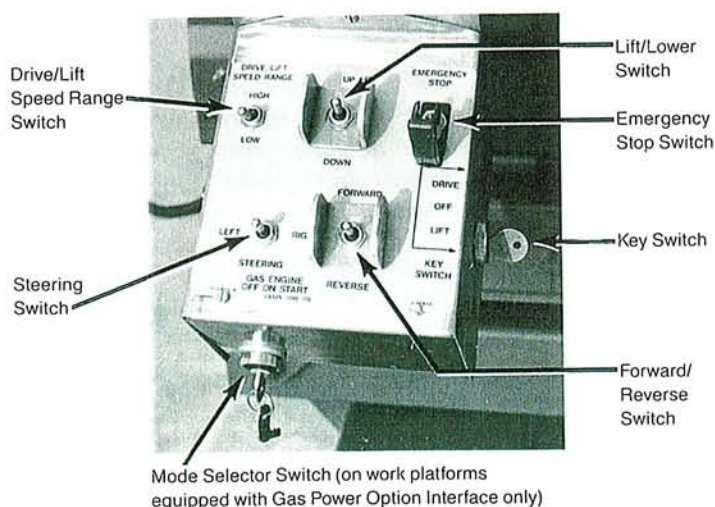


Figure 6. Control Console

### — WARNING —

Before operating always check that route is clear of persons, obstructions, holes and dropoffs, above, below and to the sides of platform.

### — WARNING —

Before traveling in reverse, double check that route is clear.

## TRAVEL WITH PLATFORM LOWERED

**NOTE:** Always check that route is clear of obstructions, holes and drop-offs, and is capable of supporting the wheel loads.



1. Turn key switch to "DRIVE" position.
2. Set drive/lift speed range switch to "HIGH" for travel on level surfaces, to "LOW" for climbing grades and when traveling in confined areas.
3. Set the drive/lift speed range to "LOW".
4. Push drive switch "FORWARD" or "BACKWARD" to travel desired direction.
5. While moving, push drive/lift speed range switch to "HIGH" if faster speed is desired.

## STEERING

1. Turn key switch to "DRIVE" position.
2. Push steering switch right or left to turn wheels.

**NOTE: Steering is not self-centering. Wheels must be returned to straight ahead position by operating switch.**

## ELEVATING PLATFORM

1. Turn key switch to "LIFT" position.
2. Set drive/lift speed range switch to "HIGH".
3. Push lift/lower switch to "UP" position to elevate platform.

**NOTE: Setting drive/lift speed range switch to "LOW" will allow slow elevation speed.**

## TRAVEL WITH PLATFORM ELEVATED

**NOTE: Machine will travel at a reduced speed when platform is elevated.**

1. Travel with platform elevated only on a hard level surface.
2. Turn key switch to "DRIVE" position.
3. Push drive switch "FORWARD" or "BACKWARD" to change direction.

## LOWERING PLATFORM

1. Turn key switch to "LIFT" position.
2. Push lift/lower switch to "DOWN".

## EMERGENCY LOWERING

### — WARNING —

**If platform should fail to lower, never climb down scissors. This could result in serious bodily injury.**

1. Ask person on ground to open emergency lowering valve to lower platform. This valve is located on the left hand side of chassis through cut out in power module cover.
2. Open valve by turning knob counterclockwise (Figure 1).
3. Once platform is fully lowered, be certain that emergency lowering valve is closed again. The platform will not elevate if the emergency lowering valve has not been closed.

## AFTER USE EACH DAY

1. Ensure that platform is fully lowered.
2. Park work platform on level ground, preferably under cover.
3. Secure against vandals, children or unauthorized operation.
4. Turn key switch to "OFF" position and remove key to prevent unauthorized operation.

## OPTIONAL XL-C SERIES FOLD DOWN GUARDRAILS

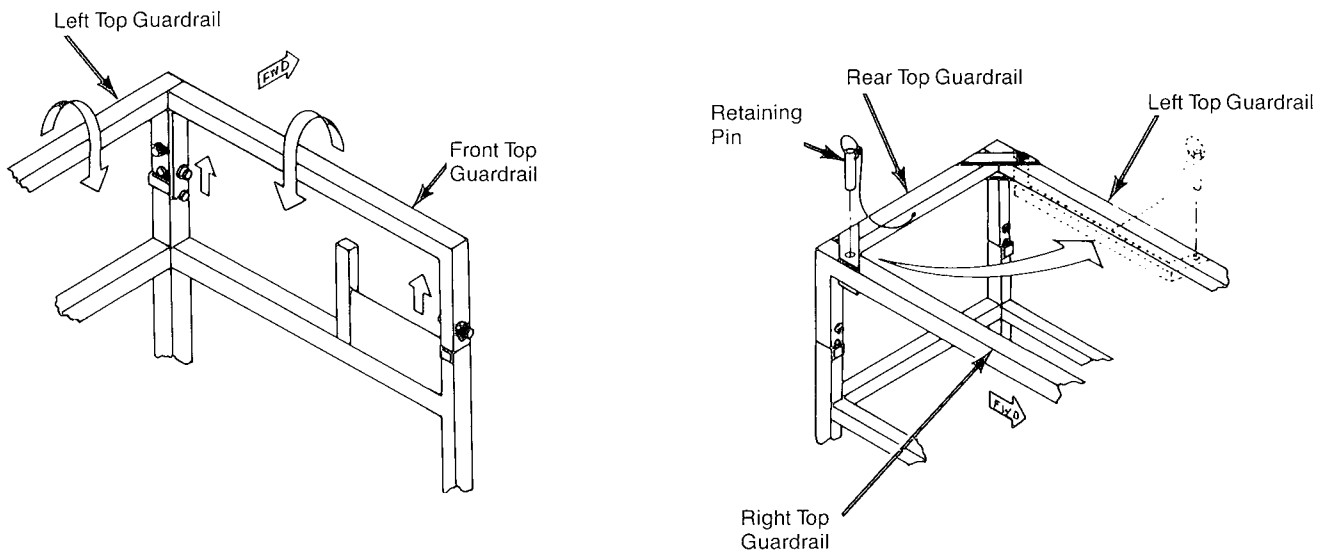


Figure 7.

## XL-C SERIES GUARDRAIL FOLD DOWN PROCEDURE

1. Remove control console from front guardrail and lay it on the deck.
2. Lift up on top front guardrail until slots disengage from pins and then fold guardrail back.
3. Remove retaining pin at the right side of top rear guardrail, rotate it to position along left top guardrail and pin in place.
4. Lift up on left top guardrail until slots disengage with pins and fold guardrail in.
5. Lift up on right top guardrail until slots disengage with pins and fold guardrail in.

## XL-C SERIES GUARDRAIL ERECTION PROCEDURE

1. Raise the right top guardrail and then push down to engage pins with slots.
2. Raise the left top guardrail and then push down to engage pins with slots.
3. Remove retaining pin from rear top guardrail (attached to left top guardrail), swing it into place across rear of machine and pin to right top guardrail.
4. Raise front top guardrail and push down to engage pins with the slots.
5. Hook control console over front guardrail so that the protruding screws on the front engages the center post.

## FORKLIFTING OF WORK PLATFORM

**NOTE:** Forklifting is for transporting only.

1. Forklift from rear end of work platform by using the frame sockets (Figures 8, 9 and 10).
2. Forklift from side by lifting under module.

**NOTE:**

- See specifications for weight of work platform and be certain that forklift is of adequate capacity to lift work platform.
- Gas Power Option must be removed before work platform can be forklifted.

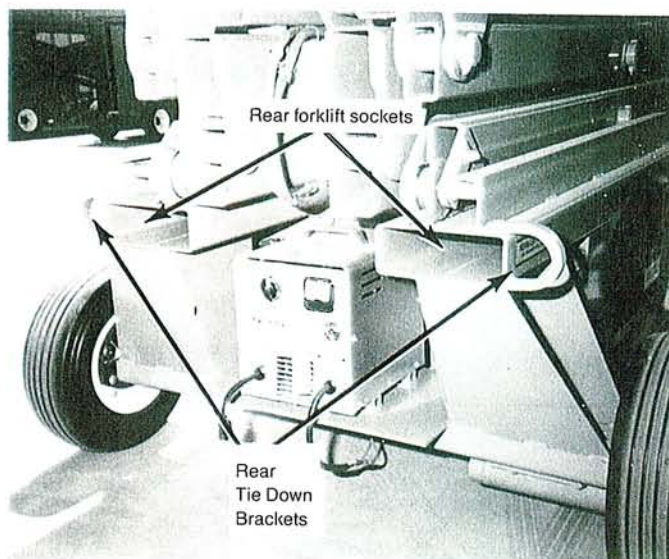


Figure 8. XL-19CW and XL-24C

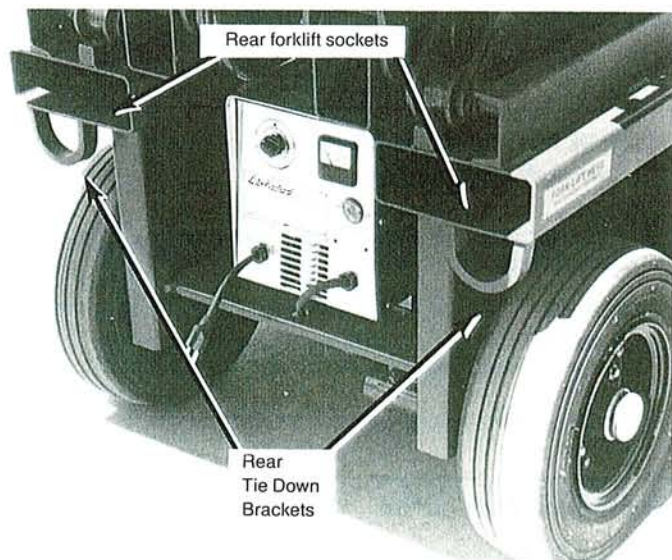


Figure 9. XL-19C

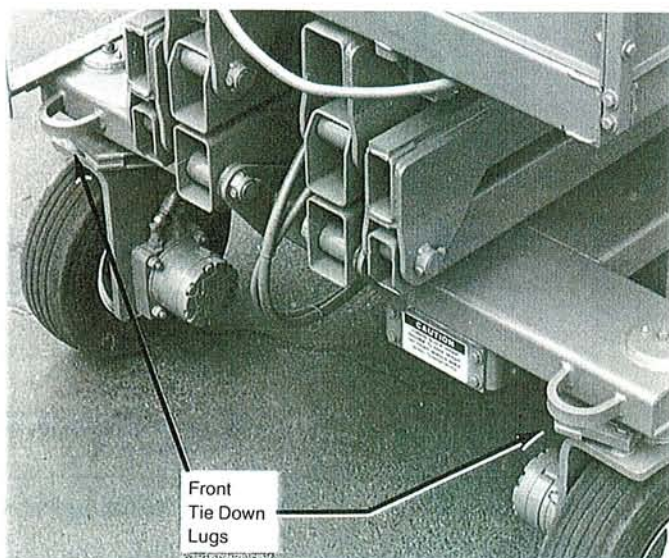


Figure 10. Front Tie Down Lugs

## SECURING TO TRUCK FOR TRANSPORT

1. Always block under work platform to keep weight off front wheels while being transported.
2. Use tie down lugs to secure work platform for transport (Figures 6, 7 and 8).

### — CAUTION —

Tie down lugs are not to be used for lifting work platform.

3. Use chains or straps of adequate load capacity.

### — CAUTION —

Over-tightening may result in damage to work platform.

4. Always chock wheels on truck bed.

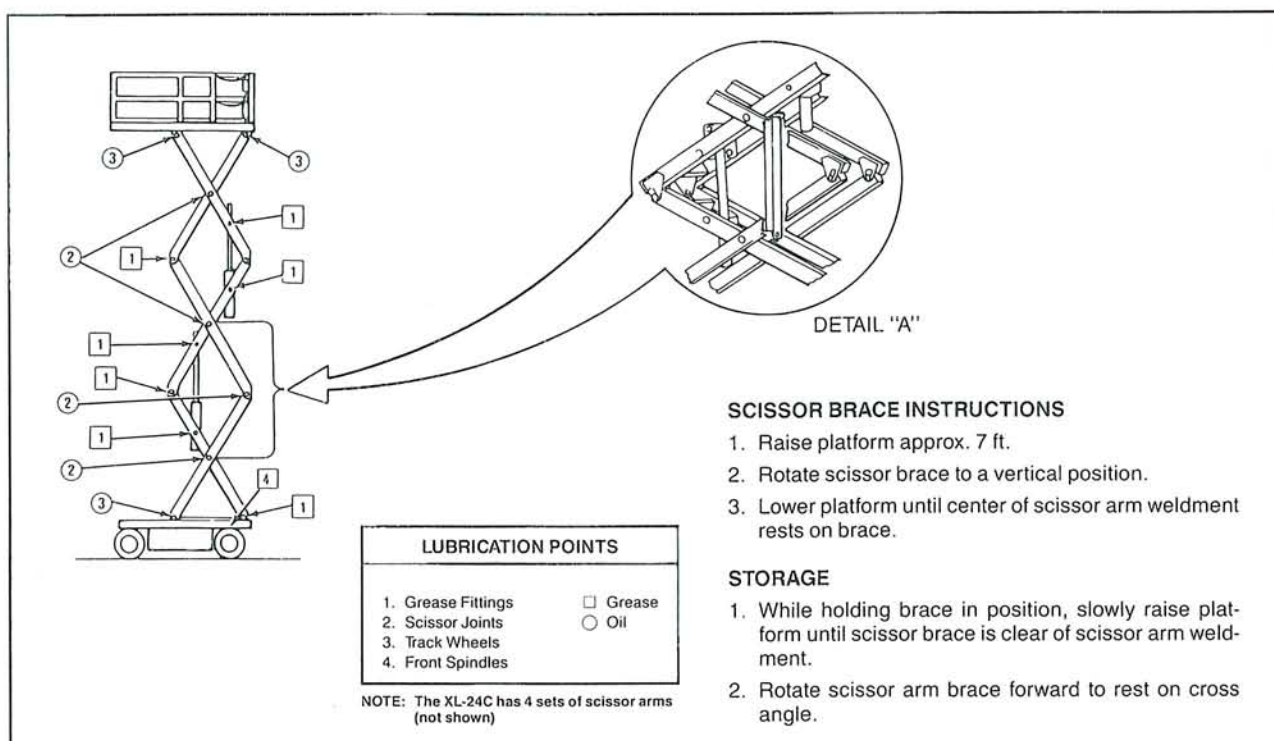


# MAINTENANCE AND ROUTINE SERVICE

*For proper service procedures see Service Manual.*

## — DANGER —

**NEVER PERFORM SERVICE ON WORK PLATFORM WHILE PLATFORM IS ELEVATED WITHOUT FIRST BLOCKING THE SCISSORS (See detail "A", Figure 9).**



**Figure 11. Blocking the scissors and lubrication points**

MAINTENANCE AND ROUTINE SERVICE				
Service Operation	Service Interval			
	Daily	Monthly	Every 6 Mos.	Every 2 Yrs.
Check battery fluid level	x			
Charge batteries	x			
Check hydraulic fluid level	x			
Check lug nuts	x			
Grease and lubricate		x		
Change hydraulic filter			x	
Change hydraulic fluid				x
Check electric motor brushes			x	
FOR GAS POWER OPTION: Refer to Honda Instruction Manual for Engine Maintenance & Routine Service				

## BATTERY MAINTENANCE

1. Check battery fluid level daily.
2. Charge batteries at end of each work shift or if they become discharged.
3. Keep tops of batteries clean.
4. For best battery life, follow instructions in XL-C Series service manual.



## BATTERY CHARGING

### — CAUTION —

Use charger only on battery systems specified on charger nameplate. Connect only to properly grounded outlets. Disconnect or connect only when supply cord is disconnected as arcing and burning may result. Keep charger dry.

1. With timer knob "OFF" connect AC cord to a properly grounded 115 volt, 60 Hz power supply.
2. Set timer knob to "7" for lightly discharged batteries and to "ON" (16 hours) for well discharged batteries.
3. Initial charge rate varies with state of discharge but finish rate should be in green area on ammeter when all cells are good.
4. To determine approximate full charge at start of day's use, turn timer knob to "1". Drop of ammeter needle to green area in 15 minutes or less indicates full charge (hydrometer reading 1.260).
5. When night air temperatures fall below 65°F batteries charged in unheated areas should be placed on charge as soon after use as possible. Under such conditions a 4-hour equalize charge once a week in the early afternoon will improve state of charge and battery life.
6. Do not charge unused vehicles regularly except during winter storage on a monthly basis.
7. Keep all ventilation openings on charger free from obstructions.
8. Replace defective cords or wires immediately.



Figure 12. Battery Charger

## GAS OPTION INSTALLATION

1. Using a suitable lifting device, slide the gas option module brackets into the chassis tubes and bolt into place with hardware provided.

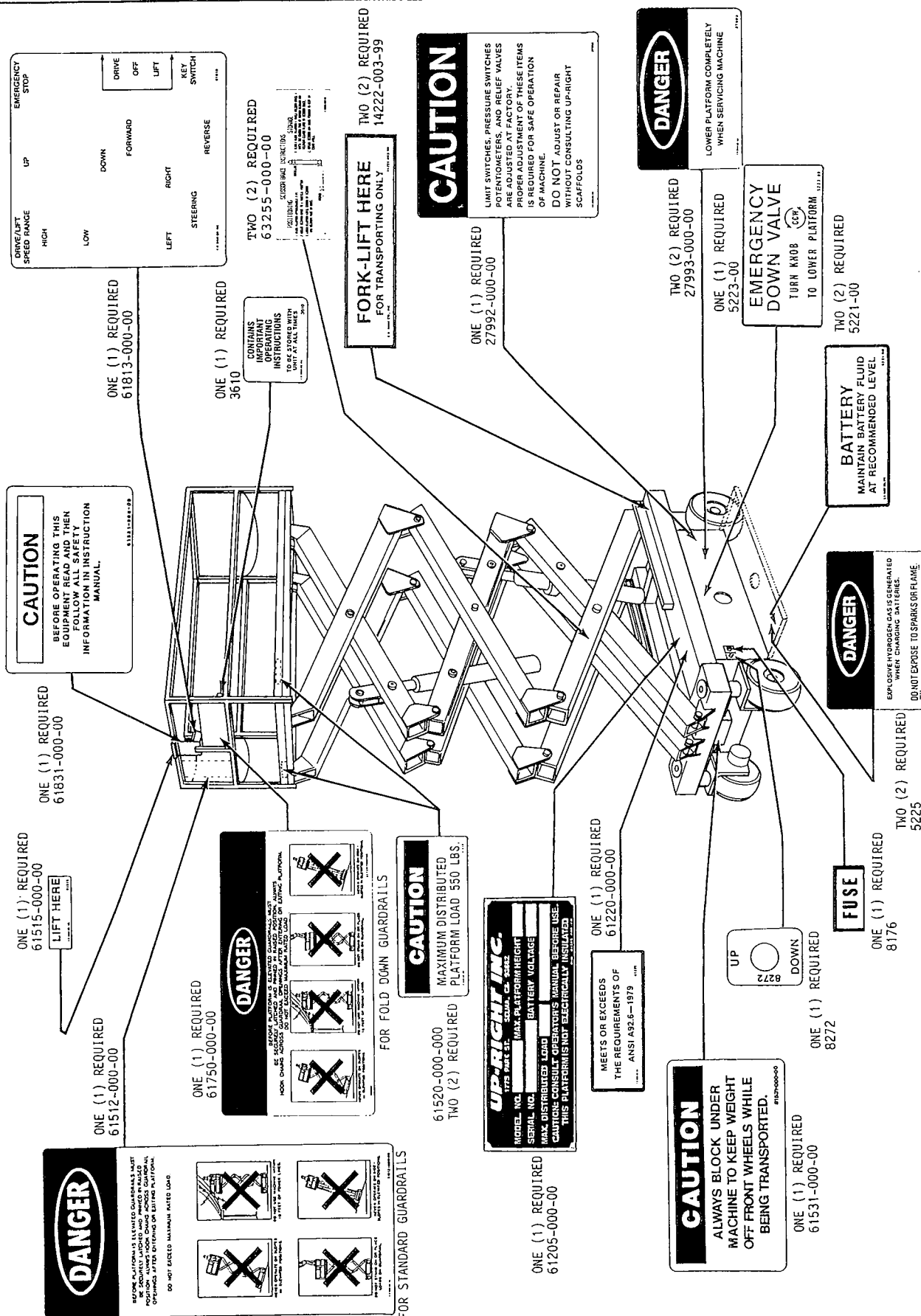
**NOTE: Module weight is approximately 200 lbs.**

2. Connect suction hose with quick disconnect.
3. Connect pressure hoses with quick disconnect.
4. Connect electrical to chassis connector.
5. Connect gas module battery.

6. Key switch on controller selects battery or gas engine operation. The switch also has a momentary engine start position. For electric battery operation, move switch to "OFF" position. For gas engine operation, turn key at engine to "ON", then move controller switch to "START" and release when engine starts.

7. Perform pre-operational checks as described on page 1 of this Users Manual.

**NOTE: All batteries will charge when engine is in operation.**



**XL-19C DECAL INSTALLATION: READ AND UNDERSTAND  
THESE DECALS BEFORE OPERATING XL-19C**





## SPECIFICATIONS \*

AMERICAN STANDARD				METRIC		
Item	XL-19C	XL-19CW	XL-24C	XL-19C	XL-19CW	XL-24C
Platform Size	29" x 77" Inside Toeboards	48 x 89" Inside Toeboards	48" x 89" Inside Toeboards	0.74 x 1.96 M.	1.22 x 2.26 M.	1.22 x 2.26 M.
Maximum Platform Capacity	550 Lbs. (750 Lbs. Opt.)	1,000 Lbs.	750 Lbs.	250 Kg.	450 Kg.	340 Kg.
Max Cantilever/ Extension	250 Lbs.	250 Lbs.	250 Lbs.	110 Kg.	110 Kg.	110 Kg.
Max Combined Capacity	Combined 550 Lbs.	Combined 1000 Lbs.	Combined 750 Lbs.	250 Kg.	450 Kg.	340 Kg.
Height						
Working Height	25 Ft.	25 Ft.	30 Ft.	7.62 M.	7.62 M.	9.12 M.
Max. Platform Ht.	19 Ft.	19 Ft.	24 Ft. (23'11")	5.79 M.	5.79 M.	7.29 M.
Min. Platform Ht.	44 In.	44 In.	50 In.	1.12 M.	1.12 M.	1.27 M.
Dimensions						
Weight	2,650 Lbs.	2,600 Lbs.	3,195 Lbs. Approx.	1202 Kg.	1179 Kg.	1449 Kg.
Weight w/Gas Power Option	2865 Lbs.	2815 Lbs.	3410 Lbs.	1299 Kg.	1277 Kg.	1546 Kg.
Overall Width	32.5 In.	50 3/4 In.	50 3/4 In.	0.83 M.	1.29 M.	1.29 M.
Overall Height	86 In.	86 In.	91 1/2 In.	2.18 M.	2.18 M.	2.32 M.
Overall Length	80 In.	82 In.	91 In.	2.03 M.	2.08 M.	2.31 M.
Overall Length w/Gas Power Option	98 1/4 In.	109 1/4 In.	109 1/4 In.	2.50 M.	2.77 M.	2.77 M.
Driveable Height	19 Ft. Standard 15 Ft. w/Cage, deck or 750 lb. capacity	19 Ft. Standard	24 Ft. Standard	5.79 M. Standard 4.57 M. w/Cage, deck or 340 Kg. Rating	5.79 M. Standard	7.29 M. Standard
Surface Speed						
Platform Lowered	0 to 2 MPH	0 to 2 MPH	0 to 2 MPH	0.89 M/S	0.89 M/S	0.89 M/S
Platform Raised	0 to .7 MPH	0 to .7 MPH	0 to .7 MPH	1.1 M/S	1.1 M/S	KMS/hr.
Energy Source						
Electric	24 Volt Battery Pack 4 HP DC Electric Motor Four 220 Ampere Hour Batteries	24 Volt Battery Pack 4 HP DC Electric Motor Four 220 Ampere Hour Batteries	24 Volt Battery Pack 4 HP DC Electric Motor Four 220 Ampere Hour Batteries	24 Volt Battery Pack 3 kW DC Motor Four 220 Ampere Hour Batteries	24 Volt Battery Pack 3 kW DC Motor Four 220 Ampere Hour Batteries	24 Volt Battery Pack 3 kW DC Motor Four 220 Ampere Hour Batteries
Gas Power Option	11 HP Gas Honda G x 340 Engine	11 HP Gas Honda G x 340 Engine	11 HP Gas Honda G x 340 Engine	8.2 kW Gas Honda Engine	8.2 kW Gas Honda Engine	8.2 kW Gas Honda Engine
Battery Charger	25 AMP	25 AMP	25 AMP			
Battery Duty Cycle	25% for 8 Hours	25% for 8 hours	25% for 8 hours			
Hydraulic Tank Capacity	4 Gallons	4 Gallons	4 Gallons	15 Lit.	15 Lit.	15 Lit.
Fuel Capacity						
Gas Power Option	1.9 Gallons	1.9 Gallons	1.9 Gallons	7.2 Lit.	7.2 Lit.	7.2 Lit.
Lift System	Two Single Stage Lift Cylinders	Two Single Stage Lift Cylinders	Three Single Stage Lift Cylinders			
Drive Control	2 Speed, Forward and Reverse	2 Speed, Forward and Reverse	2 Speed, Forward and Reverse			
Control System	Toggle Switches for All Functions	Toggle Switches for All Functions	Toggle Switches for All Functions			
Horizontal Drive	Single Front Wheel Hydraulic Motor (Dual Optional)	Single Front Wheel Hydraulic Motor (Dual Optional)	Dual Front Wheel			
Tires	16 In. Diameter Solid Rubber	16 In. Diameter Solid Rubber (Opt. - 16.5x6.5x8 Urethane Filled)	16 In. Diameter Solid Rubber (Opt. - 16.5x6.5x8 Urethane Filled)	0.41 M. Diameter Solid Rubber	0.41 M. Diameter Solid Rubber (Opt. - 0.42x0.17 Urethane Filled)	0.41 Diameter Solid Rubber (Opt. - 0.42x0.17 Urethane Filled)
Braking	Spring Applied, Hydraulic Release Parking Brake	Spring Applied, Hydraulic Release Parking Brake	Spring Applied, Hydraulic Release Parking Brake			
Turning Radius	24 In. Inside	24 In. Inside	24 In. Inside	0.61 M. Inside	0.61 M. Inside	0.61 M. Inside
Gradeability	25%	25%	25%	14°	14°	14°
Wheel Base	62 1/2 In.	63 In.	63 In.	1.59 M.	1.60 M.	1.60 M.
Guardrails	42 In. High **	42 In. High	42 In. High	1.07 M.	1.07 M.	1.07 M.
Toeboard	6 In. High	6 In. High	6 In. High	0.15 M.	0.15 M.	0.15 M.
** Optional guardrails fold down to 79 In. for passage through 80 In. height door.				Optional guardrails 2.01 M. folded to pass through 2.03 M. door		
* Specifications subject to change without notice.						



Call toll free

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