



TOTAL AUTOMOTIVE LIFTING SOLUTIONS INC.



**TLSLR6RR4  
LOWRISE  
6,000 lbs. Capacity**

**Installation / Operation & Service Parts Manual**

**READ the manual thoroughly before installing,  
Operating, Servicing or Maintaining the Lift  
SAVE this MANUAL and ALL INSTRUCTIONS**

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## CONTENTS

1.Safety.....	3
1.1 Introduction .....	3
1.2 Safety Instructions for Commissioning.....	3
1.3 Safety Instructions for Operation.....	4
1.4 Safety Instructions for Servicing.....	4
2. PACKING, TRANSPORT AND STORAGE .....	5
2.1 PACKING .....	5
2.2 LIFTING AND HANDLING.....	5
2.3 STORAGE AND STACKING OF PACKAGES.....	5
2.4 DELIVERY AND CHECK OF PACKAGES .....	6
3 Specifications.....	7
4 Floor requirement .....	10
4.1 Select the site area; .....	10
4.2 Floor Requirements .....	10
5 Installation Instruction.....	11
5.1 Positioning the Ramp Assemblies.....	11
5.2 Connect the hydraulic hose assemblies. ....	11
5.3 Mounting the hydraulic power console.....	11
5.4 Electrical Connections .....	11
6 Operation.....	12
6.1 Defects / Malfunctions .....	12
6.2 Controls .....	13
6.3 Operation .....	14
6.4 Protection against Unauthorized Usage.....	14
6.5 Manual Lowering.....	15
7 Maintenance .....	15
7.1 Maintenance Schedule .....	15
7.1.1 DAILY.....	15
7.1.2 WEEKLY.....	15
7.1.3 MONTHLY .....	16
7.1.4 Six MONTHLY .....	16
7.1.5 YEARLY .....	16
7.1.6 Two YEARLY .....	16
7.2 Maintenance by the Operator .....	17
7.2.1 Hydraulic System .....	17
7.2.2 Greasing Points.....	17
7.2.3 Operational and Wear Checks .....	17
7.2.4 Lift Stability.....	17
7.3 Cleaning .....	17
8 Troubleshooting .....	18
9 Part List .....	24

# 1.Safety

## 1.1 Introduction

Thoroughly read this manual before operating the lift and comply with the instructions. Always display the manual in a conspicuous location.

Personal injury and property damage incurred due to non-compliance with these safety instructions are not covered by the product liability regulations.

### Symbols



Failure to comply with instructions could result in personal injury.

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Failure to comply with instructions could result in property damage.

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Important information.

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## 1.2 Safety Instructions for Commissioning

1. The lift may be installed and commissioned by authorized service personnel only.
2. The standard lift version may not be installed and commissioned in the vicinity of explosives or flammable liquids, outdoors or in moist rooms (e.g. car wash).

## 1.3 Safety Instructions for Operation

1. Read the operating manual.
2. Lift operation by authorized personnel over 18 years only.
3. Always keep the lift and lift area clean and free of tools, parts, debris etc.
4. After raising the vehicle briefly, stop and check the disk adapters for secure contact.
5. Make sure the vehicle doors are closed during raising and lowering cycles.
6. Closely watch the vehicle and the lift during raising and lowering cycles.
7. Do not allow anyone to stay in lift area during raising and lowering cycles.
8. Do not allow anyone on lift or inside raised vehicle.
9. Only use the lift for its intended purpose.
10. Comply with the applicable accident prevention regulations.
11. Do not overload the lift. The rated load capacity is indicated on the lift nameplate.
12. Only use the vehicle manufacturer's recommended lift points.
13. After positioning the vehicle apply the parking brake.
14. Use caution when removing or installing heavy components (center-of-gravity displacement).
15. The main switch serves as emergency switch. In case of emergency turn to position 0.
16. Protect all parts of the electrical equipment from humidity and moisture.
17. Protect the lift against unauthorized usage by padlocking the main switch.

## 1.4 Safety Instructions for Servicing

1. Maintenance or repair work by authorized service personnel only.
2. Turn off and padlock the main switch before doing any maintenance, or repair work.
3. Work on pulse generators or proximity switches by authorized service personnel only.
4. Work on the electrical equipment by certified electricians only.
5. Ensure that ecologically harmful substances are disposed of only in accordance with the appropriate regulations.
6. Do not use high pressure / steam jet cleaners or caustic cleaning agents. Risk of damage!
7. Do not replace or override the safety devices.

## 2. PACKING, TRANSPORT AND STORAGE

Only skilled personnel who are familiar with the lift and this manual shall be allowed to carry out packing, lifting, handling, transport and unpacking operations.

### 2.1 PACKING

The packing of the lift is delivered in following components:

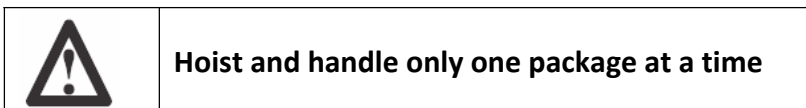
1. 2 base units packed in a steel frame, wrapped up in non-scratch waterproof material and sealed with 2 straps
2. 1 power unit packed in a plywood box
3. 4 drive-on ramps wrapped up in non-scratch waterproof material, including
4. 4 rubber pads, N. 4 hydraulic hoses and N. 8 anchor bolts.

(If requested, optional accessories are available to satisfy each customer's requirements).

The average weight of the package is *900 kg*

### 2.2 LIFTING AND HANDLING

When loading/unloading or transporting the equipment to the site, be sure to use suitable loading (e.g. cranes, trucks) and hoisting means. Be sure also to hoist and transport the components securely so that they cannot drop, taking into consideration the package's size, weight and centre of gravity and its fragile parts.



### 2.3 STORAGE AND STACKING OF PACKAGES

Packages must be stored in a covered place, out of direct sunlight and in low humidity, at a temperature between  $-10^{\circ}\text{C}$  and  $+40^{\circ}\text{C}$ .

Stacking is not recommended: the package's narrow base, as well as its considerable weight and size make it difficult and hazardous.

## 2.4 DELIVERY AND CHECK OF PACKAGES

When the lift is delivered, check for possible damages due to transport and storage; verify that what is specified in the manufacturer's confirmation of order is included. In case of damage in transit, the customer must immediately inform the carrier of the problem.

Packages must be opened paying attention not to cause damage to people (keep a safe distance when opening straps) and parts of the lift (be careful the objects do not drop from the package when opening).

### RISKS FOR PEOPLE

All risks the personnel could run, due to an improper use of the lift, are described in this section.

#### PERSONNEL CRUSHING RISKS

During lowering of runways and vehicles, personnel must not be within the area covered by the lowering trajectory. The operator must be sure no one is in danger before operating the lift.



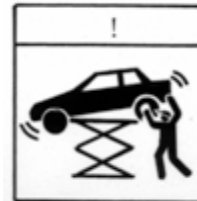
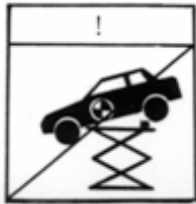
#### BUMPING RISK

When the lift is stopped at relatively low height for working, the risk of bumping against projecting parts occurs.



## RISK OF THE VEHICLE FALLING FROM THE LIFT

Vehicle falling from the lift can be caused when the vehicle is improperly placed on platforms, and when its dimensions are incompatible with the lift or by excessive movement of the vehicle. In this case, keep immediately away from the working area.

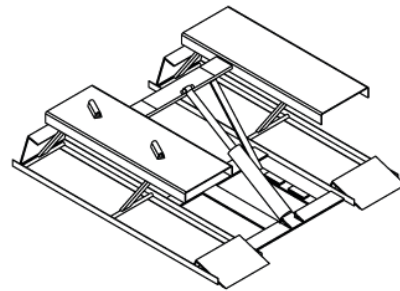
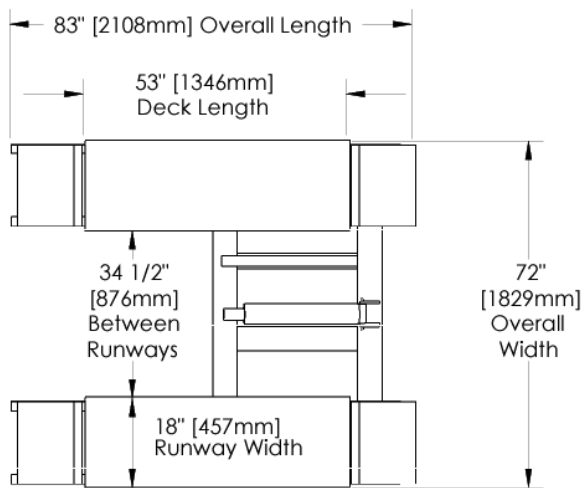


### 3 Specifications

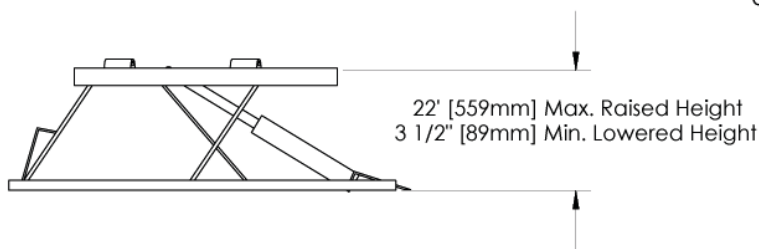


The properties indicated apply to lifts running at operating temperature.

### TLSL6RR4 – LOWRISE



6,000lbs Capacity  
Low Rise  
Scissor Lift  
Dimensions





	<b>TL6RR4</b>
Load capacity	6,000lb
Overall Length	83"
Deck Length	53"
Overall Width	72.5"
Width Between Runways	36"
Deck Width	18"
Lowered Height	4"
Raised Height	22"
Power Requirements	115V AC – 60Hz -1 Ph - 20 Amp 220V – 60Hz – 1Ph – 20 AMP
Shipping Weight	850 lbs
Lift Time	22'



Specifications are subject to change without notice.

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# 4 Floor requirement

These notes are for your guidance prior to installation

## 4.1 Select the site area;

Make sure that adequate space and height is available.

## 4.2 Floor Requirements



Warning

Specifications of concrete must be adhered to. Failure to do so could cause lift failure resulting in personal injury or death.

The floor should be a reinforced concrete slab not less than 200mm thick, compressive strength of concrete no less than 25Mpa.



Danger

For correct installation of the Scissor Lift, the floor must be flat and level.  
A level tolerance between bases of 8mm is allowable and 10mm front to rear.  
Check with straight edge and spirit level.

Small differences in floor slopes may be compensated for by proper shimming. If a floor is of questionable slope, consider a survey of the site and/or the possibility of pouring a new level concrete slab.



important

New concrete must be adequately cured at least 28 days minimum.

No liability for any damages will be accepted should you install the hoist on an unsuitable floor.

# 5 Installation Instruction

## 5.1 Positioning the Ramp Assemblies

Position the lift to installation position on two bearers.

Position and bolt down through the 8 fastening holes. We have supplied 8 M16\*76 anchor bolt.



important

The hydraulic hoses have been pre-installed for your convenience. BE CAREFUL not to cut the Hydraulic Hoses during the installation process.

## 5.2 Connect the hydraulic hose assemblies.

Insure all hydraulic fittings are tight and not leaking.

## 5.3 Mounting the hydraulic power console

1. Select a position that is best suited for the Power console installation.
2. Using a 3/4" concrete drill bit, drill the floor to a depth of 4.5" using the two holes in the Power Console as a guide.
3. Assemble the washers and nuts on the Anchors Bolts then tap into each hole with a hammer until the washer rests against the base.
4. Install the 3/4" Anchor Bolts and tighten two to three turn past finger tight.

## 5.4 Electrical Connections



danger

All wiring must be performed by a licensed electrician

The standard electric motor used on your lift requires a 220 volt, 60HZ, single phase hook-up.

All wiring must be performed by a certified electrician only.



danger

Do not perform any maintenance or installation of any components without first ensuring that electrical power has been disconnected at the source or panel and cannot be re-energized until all maintenance and/or installation procedures are completed.



warning

“DO NOT run power unit with no oil. Damage to pump can occur.

“The power unit must be kept dry. Damage to power unit caused by water or other liquids such as detergents, acid etc., is not covered under warranty.

**When power is connected to the lift terminal box the motor must rotate clockwise, if lift will not lift exchange wires on two phases.**

## 6 Operation



warning

Lift operation by authorized personnel over 18 years only.

Apply the parking brake after positioning the vehicle on the lift.

Do not allow anyone to stay in lift area during raising and lowering cycles. Closely watch the vehicle and the lift during raising and lowering cycles.

Observe the rated load capacity and load distribution.

Do not allow anyone to climb on lift or stay inside vehicle.

After raising the vehicle briefly, stop and check adapters for secure contact.

Make sure the vehicle doors are closed during raising and lowering cycles.

### 6.1 Defects / Malfunctions



warning

In case of defects or malfunctions such as jerky lift movement or deformation of the superstructure, support or lower the lift immediately.

Turn off and padlock the power switch (press it). Contact qualified service personnel.

## 6.2 Controls

Control unit



important

The power switch is used as emergency switch. In case of emergency press it to cut off the power.

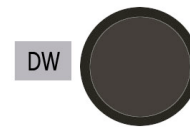
Power supply indicator light off: Power supply is interrupted

Power supply indicator light on: Lift is ready for operation

Button Raise/Down



Once any button is actuated, the lift moves until the button is released or the limit stop is reached.



Button SET ON LOCKS

Press this button "LK" to set the lift on the mechanical locks automatic.

## 6.3 Operation



warning

Not according to operation procedure may cause damage to the lift and person injury

1. Drive vehicle on forward to front wheels rest on stops
2. Confirm the support area



important

Place the four rubber pads under edge of vehicle at the four jack points.

3. Press up button and raise vehicle to required height. Do not go under vehicle until load rests on safety.
4. When vehicle reaches maximum height a limit switch will come into operation and stop hoist. When lift has stopped, press down button until load rests on safety.
5. While lifting the vehicle a clunking sound should be noticeable which indicates the safety mechanism is operating. If this sound is not heard, immediately cease using the hoist and call an authorized service agent.
6. Lower the lift, press the down button twice within 2 seconds and continue to hold, the hoist will rise up automatically for 2 seconds. Safety will disengage then lift will begin to lower.
7. To lower to ground level, repeat step 6
8. Drive vehicle out of the lift.



warning

The operator must be the trained and approved to operate the lift.



warning

Do not go under vehicle under any circumstances while vehicle is being lifted or lowered.



warning

Load must be evenly distributed between both lifting platforms if load is unbalanced reposition vehicle. DO NOT lower on to locks at different heights.

## 6.4 Protection against Unauthorized Usage

When the power switch, the main switch can be protected against tampering by means of a padlock.

## 6.5 Manual Lowering

In case of motor defect or power failure the lift can be lowered manually.



danger

Authorized personnel only! Do not restart the lift before the error has been remedied.

## 7 Maintenance



warning

Turn off and lock the main switch before servicing the lift.



important

The maintenance intervals indicated below apply to average workshop use. The lift should be inspected more frequently for severe use applications.

## **7.1 Maintenance Schedule**

Establish a periodic preventive maintenance procedure to ensure trouble-free operation and long service life.

### **7.1.1 DAILY**

Check safety mechanism is functioning correctly.

### **7.1.2 WEEKLY**

Clean the bottom tracks and safety with compressed air (do not use water)

### **7.1.3 MONTHLY**

1. Check safety mechanism operation.
2. Check condition of shafts, shaft locks and bushes.
3. Check overall cleanliness.
4. Clean roller tracks, spray rollers and safety toggle shafts.

### **7.1.4 Six MONTHLY**

1. Check condition of extensions and lubricate.
2. Check oil leaks from cylinders.
3. Check oil leaks at pipe joints.
4. Check anchor bolts.
5. Lubricate top and bottom roller side guides and tracks.
6. Lubricate safety air cylinders.



### **7.1.5 YEARLY**

Service and safety inspection on the hoist must be performed by a competent person. This inspection must be recorded. If the 12 monthly service and safety inspection is not performed, the warranty is null and void.



important

Yearly service must include removal of rollers to inspect, clean and lubricate bushes and pins.

### **7.1.6 Two YEARLY**

Hydraulic oil and filter should be replaced.



important

After cleaning workshop floor or hoist, to maintain hoist efficiency we advise to lubricate roller bearings and safety toggle shafts, as per monthly maintenance instructions point 4.

## **7.2 Maintenance by the Operator**

### **7.2.1 Hydraulic System**

1. Once a year check the fluid level (see below) with the lift fully lowered and add fluid as required.
2. Visually check all hydraulic hoses for tightness.

## 7.2.2 Greasing Points

### Slide Tracks

The slide tracks should be greased every six months (or more frequently in case of noise generation).

Slightly grease the slide tracks over their whole length using a brush.

## 7.2.3 Operational and Wear Checks

## 7.2.4 Lift Stability

1. Every six months check the nuts of all anchor bolts for correct installation torque Tinst.
2. Retighten them as required.

## 7.3 Cleaning



danger

Do not use high pressure / steam jet cleaners or caustic cleaning agents.

Risk of damage!

1. Periodically wash off aggressive substances and treat the lift with oil or wax spray.
2. Repair the damage to the paintwork immediately to prevent corrosion. The RAL number is available through the manufacturer.

## 8 Troubleshooting

No	Problem	Possible Cause	Solution
1	without load the main platform and sub platform in the same level, but they don't in the same level when loaded	there is air in the oil circuit	cut off all the main machine throttle valve on the side of the oil control box, cut off all sub machine throttle valve, press the up button, open the vent on the main machine when rising, tighten the vent when there has air leak, repeat the action more than three times until confirm there are no air in the oil circuit, then adjust the main machine throttle and sub machine throttle to level the two platform
2	Platforms do not stop in standing position	The lowering and solenoid valves stay opened.	Verify that solenoid valve sliders are not block
		Leakage in the hydraulic pipelines	Check connections for proper tightening and tubes for damage
		hydraulic cylinders are faulty	Check and replace if need
3	lift will not raise	The motor direction of rotation is not correct.	Interchange the two phases on the main switch
		The oil in the hydraulic unit is not sufficient.	Add some hydraulic oil
		The UP button is faulty.	Check UP button and connection for proper operation. Replace, if needed
		The maximum height limit switch is faulty.	Check the switch and relevant connection for proper operation. Replace, if needed
		The lowering solenoid valve does not close	Check and clean, if dirty, or replace, if faulty
		The suction pump filter is dirty	Check and clean if needed.

4	lift raise slowly	not enough hydraulic oil	supply oil
		the pressure of oil not sufficient	adjust the pressure adjust screw
		throttle valve not open	open it
		leakage in the oil circuit	replace
5	lift will not lower	no power	power on, the indicator will on
		Wash release valve in solvent and blow out with air	Clean release valve
		the emergency stop button is pressed	release it
		up/down valve damaged	replace
		air electromagnetic valve damaged	replace

## TSLR6RR4 Parts List

No.	Drawing Number	Description	Quantity	Remark
1	TC25-100-00	runway	1	Weld Assembly
2	TC25-100-11	shim plate	4	Rubber
3	TPF4-400-07	big-head screw	36	
4	GB6182-86	self-lock nut	36	
5	TC25-500-02A	height adapter	4	
6	TC25-500-02B	height adapter	4	Weld Assembly
7	TC25-500-03C	height adapter	4	
8	TC25-500-05-00	salver B	2	Weld Assembly
9	TC25-200-00	base frame	1	Weld Assembly
10	YOUGANG	cylinder	1	
11	TC25-400-02	45° fitting	1	
12	TC25-400-03	hydraulic hose	1	
13	TC25-400-01-01	angle fitting	1	45#
14	GB5649-85	nut	1	
15	GB5625-85	washer	1	
16				
17		power unit cart	1	Assembly
18	YYZ	power unit	1	
19	TC25-300-01	short spindle	1	
20	TC25-300-02	clip	3	
21	TC25-300-03	long spindle	1	
22	TC25-500-01	rubber pad	12	Rubber
23	TC25-300-04-00	Safety Lock Bar	1	
24	TC25-300-05	cam	1	
25	GB879-86	spring column pin	2	
26	GB5781-85 M8X25	hex-head screw	4	
27	M8 GB6170-86	hex nut	4	
29	GB95-85	flat washer	4	
30	GB93-87	spring washer	4	
31		anchoring bolt	4	

