

CITY OF LOS ANGELES

CALIFORNIA

BOARD OF
BUILDING AND SAFETY
COMMISSIONERS

VAN AMBATIELOS
PRESIDENT

JAVIER NUNEZ
VICE PRESIDENT

JOSELYN GEAGA-ROSENTHAL
GEORGE HOVAGUIMIAN
ELVIN W. MOON



ERIC GARCETTI
MAYOR

DEPARTMENT OF
BUILDING AND SAFETY
201 NORTH FIGUEROA STREET
LOS ANGELES, CA 90012

OSAMA YOUNAN, P.E.
GENERAL MANAGER
SUPERINTENDENT OF BUILDING

JOHN WEIGHT
EXECUTIVE OFFICER

Park Plus, Inc.

8640 Tamarack Ave.
Los Angeles, CA 91352
Attn: Ralph McKinley

RESEARCH REPORT NO.: 930532

Approval Date: February 17, 2021
Expires: February 17, 2022

GENERAL APPROVAL - Renewal - Triple Stacker *Passenger Vehicle Lift System* - Manufactured by Park Plus, Inc. The system consists of a “*Hydraulic Power Pack*” and the “*Vehicle Lifts*”.

This *Triple Stacker Passenger Vehicle Lift System* is intended to be installed indoor and outdoor in commercial areas that are only accessible to trained parking attendants. This approval is not a product endorsement nor a certification of accuracy or function of the approved item.

CONDITIONS OF APPROVAL

The following conditions apply to all models. The installation of the above Vehicle Lift System is approved when the following conditions are met:

1. The following “*Hydraulic Power Pack*” models are used as a part of the *Vehicle Lift System*:

Model Number	Electrical Ratings	# of Lifts	Fused Disconnect
HPS-3P10	208/220V, 3Ph, 10HP, 28.4 Amps	1-12	40 Amp
HPS-3P15	208/220V, 3Ph, 15HP, 46.2 Amps	1-12	60 Amp

2. The following “*Vehicle Lift*” model is used as a part of the *Vehicle Lift System*:

Model Number	Width	Length	Height
TP500H	8'-5" to 9'-6"	18'-0"	18'-6" to 26'-6"

3. The installation of the Vehicle Lift System shall comply with the requirements of LADBS Information Bulletin document #P/ZC 2002-001 for “Parking Design”, including section “Q”.
<https://www.ladbs.org/docs/default-source/publications/information-bulletins/zoning-code/parking-lot-design-ib-p-zc2002-001.pdf?sfvrsn=19>

4. The “*Hydraulic Power Pack*” shall be plainly and permanently marked on a contrasting background with 1/4" minimum height letters where readily visible with all the following:
 - a. Manufacturer’s name,
 - b. Model designation,
 - c. Serial number,
 - d. Electrical Ratings in Volts, Amp, HP, Phase & Hz,
 - e. **“Caution** - For Installation in Non-Hazardous locations only”,
 - f. **“WARNING - Electrical Shock Hazard.** Do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.”,
 - g. **“WARNING** - This *Vehicle Lift System* shall ONLY be accessible to and operated by authorized, trained and qualified parking attendant personnel. Read the instructions before operating the equipment.”,
 - h. *“The installation of this Vehicle Lift System shall be subject to the conditions of approval listed in RR#930532. For a copy of the RR visit www.LADBS.org or call City of LA 213-482-6721.”*
5. Each “*Vehicle Lift*” shall be plainly and permanently marked on a contrasting background with 1/2" minimum height letters where readily visible with all the following:
 - a. Manufacturer’s name,
 - b. Model designation,
 - c. “Class II Wiring”
 - d. **“WARNING - RISK OF INJURY OR DEATH.** This *Vehicle Lift System* shall ONLY be be accessible to and operated by authorized, trained and qualified personnel. Do not operate the lift if people are present on or near the lift. Read all the instructions before operating this *Vehicle Lift System*”,
 - e. **“CAUTION** - To access your vehicle on the platform lower the vehicle to the ground level first, DO NOT climb the lift.”,
 - f. **“CAUTION** - The driver and the passengers must exit the vehicle prior to operation of the lift.”,
 - g. **“CAUTION** - Maximum dimensions of the vehicle on this lift shall not exceed:
Height: 82 Inches, Length: 216 Inches, Width 95 Inches,
 - h. **“DANGER - Risk of injury and damage to the Lift System.** Maximum Load Capacity: 6,000Lb. (Per Platform). Do not lift a vehicle exceeding its capacity.”
 - i. **“DANGER - RISK OF INJURY.** Do Not attempt to modify or adjust the lift. In case of any malfunction or damage, DO NOT operate the lift. Contact the manufacturer’s authorized and qualified representative at 800-459-2604 for repair or replacement.”
 - j. *“The installation of this Vehicle Lift System shall be subject to the conditions of approval listed in RR#930532. For a copy of the RR visit www.LADBS.org or call City of LA 323-224-2168.”*
6. The Vehicle Lift System shall only be accessible to and operated by trained, authorized and qualified parking attendants.
7. The Vehicle Lift System shall be installed and maintained in strict compliance with the manufacturer’s instructions by trained, authorized and qualified personnel only.
8. Maintenance of safety mechanisms indicated in the manufacturer’s manual shall be recorded and to be included in the maintenance record.

9. The *Short Circuit Rating* of the *Lift's* control panel shall be equal or higher than the *Available Fault Current* from the electrical service in the building at that control panel.
10. An accessible power disconnect switch shall be installed within sight of the Vehicle Lift System. The disconnect switch shall be clearly labeled "*Power Disconnect for Vehicle Lift System*".
11. The installation of this *Passenger Vehicle Lift System* shall comply with applicable provisions of the Los Angeles City Codes including but not limited to Building, Electrical, Mechanical, Plumbing, Fire, Zoning Codes and Planning regulations.
12. The Vehicle Lift System shall be installed on a leveled surface, and its supporting structure shall be designed and anchored seismically per Chapter 16 of the City of Los Angeles Building Code.
13. A "Building Permit" shall be obtained prior to installation or relocation of the Vehicle Lift System in the City of Los Angeles.
14. An "Electrical Permit" shall be obtained prior to installation or relocation of the Vehicle Lift System in the City of Los Angeles.
15. All sensing devices shall be set and sealed at the factory. Field adjustable settings shall be accessible only to the manufacturer's authorized personnel.
16. A component, when replaced, shall be of the identical original manufacturer's part that was approved by the Los Angeles City Electrical Testing Laboratory.
17. For each installation of Vehicle Lift System that deviates from the conditions of approval of this Research Report, the manufacturer shall be obtained approval from Los Angeles City Electrical Testing Laboratory.
18. Covenant and Agreement (*Rev. 2/17/2016*) shall be recorded with Los Angeles County Assessor's Office agreeing to maintain the vehicle lift system in working condition at all times.
19. If the *Vehicle Lift System* fails to operate, it shall be repaired or replaced by the manufacturer's authorized representative. The total number of parking spaces shall comply with the requirements of the building department.
20. All components of Vehicle Lift System shall be listed by a City of Los Angeles recognized testing laboratory or approved by the Department.
21. The *Hydraulic Pump & Lift System* shall be equipped with a "Parker - RAH101S50" adjustable release valve, set at 2,500 Lb. to prevent injuries to the operator and damages to the lift system and personal properties, if the vehicle's weight exceed 6,000 Lb.

22. The Vehicle Lift System shall be equipped with listed motion/occupancy sensors, to disable the downward movement of the lift if an object or person is present or enters into the boundaries of the lift system. The sensors shall be maintained and be in operable condition at all times.
23. This approval shall be void if the product is modified or moved without prior authorization from the Los Angeles City Electrical Testing Laboratory.
24. This approval does not include the calibration of the Vehicle Lift System or any test equipment that is used to service the unit.
25. A copy of this research report shall be placed inside the control panel of the Vehicle Lift System.

DISCUSSION

The product covered under this Research Report is a *Passenger Vehicle Lift System* (also referred to as a “*Lift System*”) that is intended to be installed indoor or outdoor in nonhazardous locations. The Lift System is designed for the parking and storage of passenger vehicles only. Three vehicles may be placed in a sized single parking space. Two vehicles are stored on elevated horizontal platforms that are raised by a hydraulic pump system. When the upper vehicle is raised and secured on to its steel-on-steel lock system, a second vehicle may be parked on the second platform. When both platforms are raised, a third vehicle may be parked underneath the raised platforms at the grade level.

The Vehicle Lift System employs a steel-on-steel locking system that automatically engages when the platform is raised to its designated height. When the lock is engaged, the lift cannot be lowered accidentally due to electrical or hydraulic failure. Only a trained, authorized and qualified parking attendant with a key can operate the lift’s control system. The lock system must be manually released before the lift can be lowered. The lift system cannot be operated by remote control or from a control switch located anywhere except directly adjacent to each individual lift.

This Vehicle Lift System shall employ listed and approved motion/occupancy sensors. The sensors stop the operation of the lift system if an object or person is present or enters under a lifted parked vehicle during descent of a platform. If the sensors fail to function as intended, it needs to be manually bypassed for the lift system to operate until the sensor is repaired or replaced.

Maximum of 12 lifts can be connected to a single “*Hydraulic Power Pack*”; however, only one lift may be operated at a time. The Vehicle Lift System, is intended to be installed in a secured area and shall only be accessible to and operated by trained, authorized and qualified parking attendants.

The fabrication details, strength or corrosion resistivity of the structure of the vehicle lift system was not evaluated as a part of this approval.

When this equipment is installed in accordance with the provisions of this General Approval, it should meet the minimum safety standards of the Los Angeles City Electrical Code.

For this General Approval to be valid on any installation project in the City of Los Angeles, an engineer or inspector of the Department of Building and Safety must make a determination that all conditions of this approval required to provide equivalency have been met.

This approval is in accordance with Section 93.0303 of the Los Angeles Municipal Code pertaining to "New Materials and Methods of Construction" and does not waive the requirements of the City of Los Angeles Building Code.

This Approval is neither a product endorsement nor a certification of accuracy or function of the approved item.

PICTURES:



APPROVED BY:

Antonio Maldonado
Electrical Engineer Associate
Electrical Testing Laboratory
201 N. Figueroa St., Suite #500
Los Angeles, CA 90012
(213) 482-7382 Tel
(213) 482-6554 Fax
www.LADBS.org