

APPENDIX - C

PERIODIC INSPECTION CHECKLIST
for
ALL LIFTS

Inspection points – All Lifts. This checklist is to be used for all automotive lifts and for accessory wheels – free devices employed on lifts with runway superstructures. Make notes in the space provided and mark all paragraphs that are not applicable. Use supplementary periodic inspection checklists for specific automotive lift classes.

Refer to manufacturer’s recommended inspection points and to the requirements of sections 5.6.2 of this standard for more detail concerning the inspection points and methods. The following is meant to be used as a quick reference checklist for the purpose of lift inspection. The paragraph numbers shown below are the same as in the main text of this standard in order to facilitate reference.

INSPECTION POINTS-ALL LIFTS

- 5.6.2.1 Record location of manufacturer instructions or generic instructions.
- 5.6.2.2 Record location of safety instructions, “Lifting-It-Right” and “Safety Tips.”
- 5.6.2.3 Record location of “Lifting Point Guide.”
- 5.6.2.4 Check accessibility and readability of safety warning labels.
- 5.6.2.5 Record the rated load capacity of the lift.
- 5.6.2.6 Record manufacturer name, model number and serial number.
- 5.6.2.7 Confirm adequacy of clearances around lift.
- 5.6.2.8 Examine all structural components including welds.
- 5.6.2.9 Examine electrical components and wiring.
- 5.6.2.10 Check the lift controls.
- 5.6.2.11 On lifts using runways, check to ensure proper operation of all features.
- 5.6.2.12 On lifts using swing arms, check telescoping stops.
- 5.6.2.13 On lifts requiring swing arm restraints, check for proper function.
- 5.6.2.14 Check all fastening devices for tightness including floor anchor bolts.
- 5.6.2.15 Check exposed surfaces and edges.
- 5.6.2.16 Operate the lift and check the operation of the positive stop and the lift locks.

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- 5.6.2.17 On lifts employing adapters, check condition and proper operation.
- 5.6.2.18 With a representative vehicle on the lift check the lowering speed.
- 5.6.2.19 Check all points requiring lubrication.
- 5.6.2.20 On lifts equipped with lateral synchronization or equalization systems, check the operation of the synchronization or equalization system.
- 5.6.2.21 On lifts incorporating working platforms, railings and stairways, check the railings and the walking surfaces.
- 5.6.2.22 On lifts incorporating overhead structures, verify the safety shutoff.
- 5.6.2.23 Inspect all chains and cables.
- 5.6.2.24 Check the tracking and level winding of cables and chains.
- 5.6.2.25 Report unguarded pinch points.
- 5.6.2.26 Confirm single point operation of multiple powered posts.
- 5.6.2.27 Report water in sub-floor pits or enclosures.

SUPPLEMENTARY PERIODIC INSPECTION CHECKLIST
for
HYDRAULIC LIFTS AND HYDRAULICALLY
DRIVEN MECHANICAL LIFTS

Inspection Points – Hydraulic Lifts. This class of lifts includes traditional and high pressure, in-ground lifts both full hydraulic and semi-hydraulic, single post, two post side-by-side, two post movable piston fore-and-aft and multiple piston heavy duty models. This class also includes surface mounted hinged lifts such as parallelogram style and scissors type, as well as wheel service lifts. Also included in the hydraulic classification are two post surface mounted lifts that utilize hydraulic cylinders which are directly connected to the superstructure and utilize no stroke multiplying chain, cables or pulleys.

Inspection Points – Hydraulically Driven Mechanical Lifts. This class of lifts includes the two-post surface mounted lift styles which utilize a hydraulic cylinder stroke multiplier typically in the form of a chain and pulley or cable and pulley arrangement. This class also includes those four post lifts that utilize a full stroke hydraulic cylinder with the vehicle being suspended or supported by chains, cables or other mechanical means.

Refer to manufacturer's recommended inspection points and to the requirements of sections 5.6.3 and 5.6.5 of this standard for more detail concerning the inspection points and methods. The following is meant to be used as a quick reference checklist for the purpose of lift inspection. The paragraph numbers shown below are the same as in the main text of this standard in order to facilitate reference.

SUPPLEMENTARY INSPECTION POINTS –
HYDRAULIC LIFTS AND HYDRAULICALLY DRIVEN MECHANICAL LIFTS

- 5.6.3.1 Check all accessible piping, tubing, hose, valves and fittings. Review lift oil consumption records.
- 5.6.3.2 Operate lift through full excursion and observe.
- 5.6.3.3 With lift loaded, stop the load at midpoint of travel and observe.
- 5.6.3.4 Check with operator to ascertain any unusual operating characteristics.
- 5.6.3.5 On lifts which incorporate trench covers, verify the proper operation.
- 5.6.3.6 On air-oil lifts check for low oil control.
- 5.6.3.7 Confirm cylinder venting provisions.
- 5.6.3.8 Confirm rotation prevention device on single post lifts.
- 5.6.3.9 On lifts utilizing pumping units, confirm adequacy of oil level at fully raised position.

SUPPLEMENTARY PERIODIC INSPECTION CHECKLIST
for
MECHANICAL LIFTS AND HYDRAULICALLY
DRIVEN MECHANICAL LIFTS

Inspection Points – Mechanical Lifts. This class of lifts includes lifts powered by cable and drum systems, chain drives and screw and nut systems. Examples of such lifts are, two post and four post surface mounted lifts, utilizing cable or chain drum systems, and similar lifts employing screw drives, as well as wheel engaging mobile lifting units.

Inspection Points – Hydraulically Driven Mechanical Lifts. This class of lifts includes the two-post surface mounted lift styles which utilize a hydraulic cylinder stroke multiplier typically in the form of a chain and pulley or cable and pulley arrangement. This class also includes those four post lifts that utilize a full stroke hydraulic cylinder with the vehicle being suspended or supported by chains, cables or other mechanical means.

Refer to manufacturer's recommended inspection points and to the requirements of sections 5.6.4 and 5.6.5 of this standard for more detail concerning the inspection points and methods. The following is meant to be used as a quick reference checklist for the purpose of lift inspection. The paragraph numbers shown below are the same as in the main text of this standard in order to facilitate reference.

SUPPLEMENTARY INSPECTION POINTS –
MECHANICAL LIFTS AND HYDRAULICALLY DRIVEN MECHANICAL LIFTS

- 5.6.4.1 Check for the proper operation of the slack suspension cable or slack suspension chain sensing system.
- 5.6.4.2 Check the operation of screw drive systems. Check for proper lubrication.
- 5.6.4.3 Check screw drive systems for proper operation of the follower or safety nut.
- 5.6.4.4 Run the lift through its full cycle and check for shut off at top and bottom of travel. Check the operation of multiple screw systems.
- 5.6.4.5 On mobile wheel engaging lifts, check the mobility of the individual units.

SUPPLEMENTARY PERIODIC INSPECTION CHECKLIST
for
PNEUMATIC LIFTS

Inspection Points - Pneumatic Lifts. This class of lifts includes airbag or bellows type lifts usually guided by scissors assemblies. Pneumatic lifts are commonly used for wheel service work or for wheels free devices on runway style lifts.

Refer to manufacturer's recommended inspection points and to the requirements of sections 5.6.6 of this standard for more detail concerning the inspection points and methods. The following is meant to be used as a quick reference checklist for the purpose of lift inspection. The paragraph numbers shown below are the same as in the main text of this standard in order to facilitate reference.

SUPPLEMENTARY INSPECTION POINTS-PNEUMATIC LIFTS

- 5.6.6.1 Check all accessible piping, tubing, hose, valves and fittings for leaks.
- 5.6.6.2 With lift loaded, stop the load at midpoint of travel and observe.
- 5.6.6.3 Check with operator to ascertain any unusual operating characteristics.
- 5.6.6.4 Confirm presence of pressure regulator in supply line.
- 5.6.6.5 Inspect air bag or bellows for damage.

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