ANSI A92 STANDARDS



ANSI OVERVIEW

- ANSI (American National Standards Institute) Standards are reviewed every 5 years.
 - The last big changes were made in 2006
- On December 10, 2018 ANSI published the new A92 Standards
- The upcoming changes will be the most significant ever in North America.
- Global Standardization...New ANSI standards mirror international standards to better align North American equipment with the global market.
 - Provide flexibility to change product between markets with the engine being the determining factor.
- Industry Regulation vs Industry Standard
 - Regulations are LAWS
 - Standards are **NOT** mandated by law
- OSHA can incorporate standards into regulations through revisions and updates, making them requirements.



THE IMPACT ON FLEET AND RETAIL PLANNING

- Are existing machines are approved for use?
 - Yes, existing machines are not required to be updated to the new standard.
- When does JLG need to be complaint?
 - Was December 2019...Production must change to the new standard ONEYEAR after the date of publishing.
 - Extended to March 1, 2020
- Does JLG offer any ANSI A92 compliant machines right now?
 - 4045R, 2632R, 3246R
- Will JLG start to manufacturer specific New standard Models prior to December?
 - None of the current line will be changed over until December.
- Can we retrofit older machines?
 - Not a cost-effective option
- What happens to machines that were built before December and are still in available inventory?
 - They can be sold if they were manufactured prior to the compliance date.
 - We expect certain models to have carryover into calendar 2020, but this depends on the market.
 - One shot to buy at old spec...next 20 years to buy new spec

ANSI A92 STANDARDS

REQUIREMENTS

New requirements will also be released for:





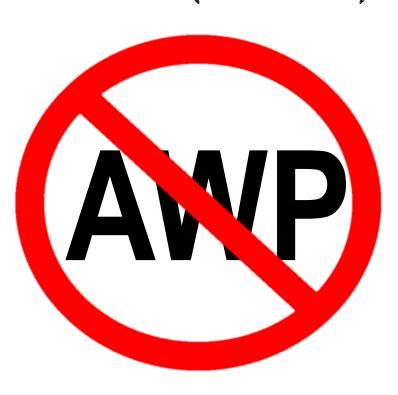


SAFE USE

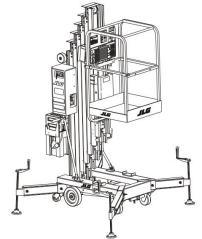
TRAINING

MOBILE ELEVATING WORK PLATFORMS (MEWPS)

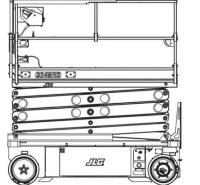




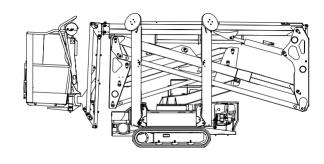
MEWP CLASSIFICATION



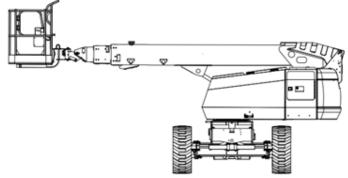
Type 1, Group A



Type 3, Group A



Type 1, Group B



Type 3, Group B



BOOM LIFTS- COMBUSTION



Wind Loading Tests

 28 mph Outdoor Rating per new standard



Function Reversal and AudibleAlarm (SKYGUARD)



Load Sensing System

- No reduced capacity
- Simplified system
- Single load sensor

Wire Rope Sensors

- Historical compliance via redundant rope systems on applicable models
- No new sensors required



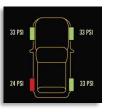
Tilt Angle Sensors

- Software change only
- Drive cutout return to stowed position if rated slope exceeded



Tire Pressure Monitoring System

(or ability to withstand a flat)
Solution = Foam or Solid Tires





SCISSOR LIFTS — ELECTRIC



Wind Loading Tests

 Provide Indoor/Outdoor rating Outdoor rating to 28 mph with reduced platform capacity



Fold Down Rails

- Required on 1930ES and 1932R due to rail height increase.
- Guardrails must be at least 43.3" high, toe guards at least 0.33 ft high and intermediate guardrails not further than 1.80 ft from either the guardrails or the toe guards

Load Sensing System

- Required in all scissor products to limit payload to rated capacity.
- Most products moving to a hydraulic pressure sensing system.
- Simple system, fewer parts.



SCISSOR LIFTS — COMBUSTION



Wind Loading Tests

 Rated to 28 mph with rated platform capacity



 Required in all scissor products to limit payload to rated capacity

Foam Filled Tires

• How to know if a tire is foam filled?...Locate the valve stem, on the opposite side of the tire, directly 180°there will be hole in the tire



Note: No capacity reductions as a result of the new standard.

LOAD SENSING SYSTEM (LSS)

- Stability Testing Before and After
 - Test Plate placed in center of platform, side pull...weight moved to one side (2 people installing pipe)...can't pass test anymore.
- LSS more sensitive on booms
 - **Dynamic Loading:** This not pure weight...not your bathroom scale.
 - Calculates Bouncing...Boom Angle sense 500LBs
 - Might only be 400lbs in basket but with bounce, side pull, plus what's going on dynamically....LSS will tie this all together.

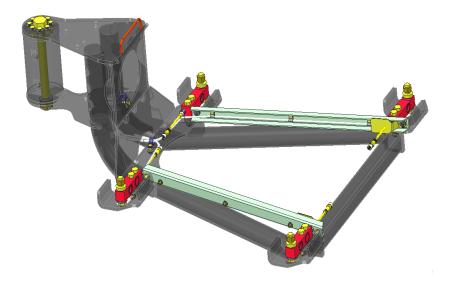
CHAINS OR ROPE CHAINS REMOVED

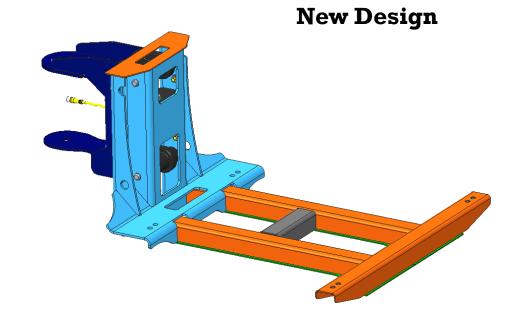




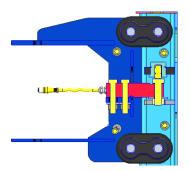


Current





- 4 Shear beams
- Load sense controller



- Simpler System, fewer parts
- ■1 Shear beam
- CAN-bus communication
- Compatible with current platforms



RESPONSIBILITIES-TRAINING

Manufacturer

 Manufacturer shall develop and offer training materials that will aid dealers, owners, users, supervisors, operators, and occupants to comply with their responsibilities for training and familiarization as outlined in this Standard.

Dealer/Owner

• A dealer or owner shall train and familiarize or have proof of training and familiarization for all their employees whom they authorize to operate a MEWP.

User

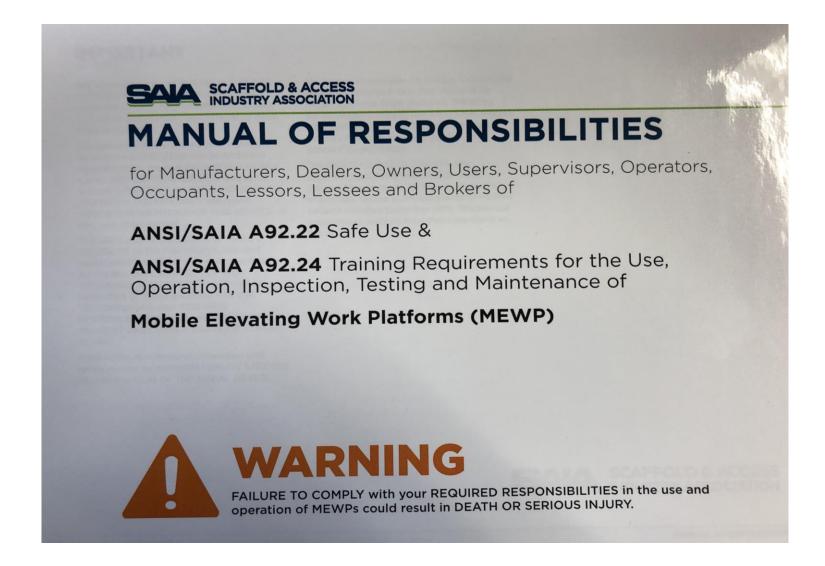
- Users of MEWPs shall either train and familiarize or ensure that personnel whom they authorize as operators, supervisors, and occupants have been trained and familiarized in accordance with this Standard.
- Users shall have **documented training program and retain records** of training in accordance with this Standard.

FAMILIARIZATION

- A92.22 & B354.7

- Prior to user's authorization of an operator to use a specific model of MEWP, the user shall ensure the operator is familiarized on the following, and as specified by the manufacturer:
 - a) identification of the location for the manual(s) storage
 - b) requirement for confirmation that the required manual(s) specified by the manufacturer are with the MEWP
 - c) purpose and function of the controls specific to the model of MEWP to be used
 - d) features, limitations and devices
 - e) operating characteristics specific to the model of the MEWP
- Self-familiarization can be achieved, if authorized, by a **properly trained** operator reading, understanding and following the manufacturer's operator's manual.
- The **user** shall ensure that after familiarization, the operator operates the MEWP for a sufficient period of time to achieve **proficiency**...JLG Access Ready App can document this familiarization.

MANUAL OF RESPONSIBILITIES COVER

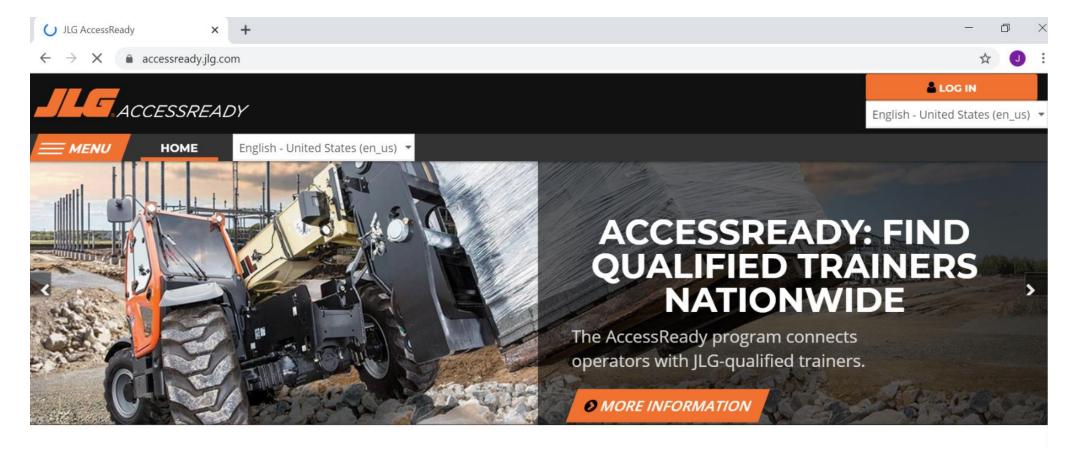


MANUAL OF RESPONSIBILITIES EXAMPLE PAGE

American National Standard for the Safe Use of Mobile Elevating Work Platforms (MEWPs)	/3	OC NOTES	CALER UP	Les	8/02 Supe	ODED	00000	LESSON 1	BREEF
4.3 Manuals	1	1	1	/3	10	70/	-0/	7/	1/4
4.3.1 Operation Manuals. All manuals provided by the manufacturer and stored in the weather-proof compartment on the MEWP that are an integral part of the MEWP and communicates necessary safety information to users and operators						1			
4.3.1.1 Machine manual(s). Manufacturers, dealers, owners, and brokers shall keep and maintain a copy of the service and parts manuals provided with the MEWP or subsequently provided applicable revisions of the manuals.	x	x	x			1			x
4.3.1.2 With each sale, rental or lease, dealers, owners, lessors or brokers shall provide a copy of the operation manuals. Manuals shall be stored in a weather-resistant compartment on the MEWP.		x	x				,	K	x
4.3.1.3 With each sale delivery, dealers, owners, or brokers shall provide the machine manuals provided with the MEWP or subsequently provided applicable revisions of the manuals.		х	x						x
4.3.1.4 Users shall keep and maintain a copy of the operation manuals in a weather-resistant compartment on the MEWP. The user shall ensure the operator reads and understands the manufacturer's operator's manual or has it explained to him/her.				х					
4.3.1.5 The operator shall ensure the operation manuals are stored in the weather-resistant storage compartment on the MEWP.						x		-	
4.4 Record Retention The following records shall be retained by the designated entities for a period of at least four years:									
 Transfer of ownership: The manufacturer, dealer, owner and broker records shall ensure written records include the name and address of the purchaser of each MEWP, both new and used, by serial number and date of delivery. 	x	х	x			H		-	x
 Frequent and annual inspections: The owner or entity designated by the owner shall ensure written records include inspections performed, the date of inspection, any deficiencies found, corrective action accomplished, and identification of the person(s) performing the inspections and repairs. 			x						
3) Pre-delivery preparation, service and repairs: The owner or dealer shall ensure written records include all service and repairs made on the MEWP to include dates of work, corrective action accomplished and identification of the entity or person(s) performing the service and/or repairs.		х	x						
4) Training and familiarization: Manufacturers, dealers, and users records shall include the name of person(s) trained/familiarized, name of person(s) providing training/familiarization, date of training/familiarization, and MEWP classification (training) or model (familiarization).	x	x		x					
5 Modifications Only the owner can authorize a modification to a MEWP after meeting requirements of this section. Modifications or additions to a MEWP shall be made only with prior written permission of the manufacturer. In case the manufacturer no longer exists, modifications to a MEWP shall be made under the direction of an engineer with expertise in MEWPs. The owner shall retain written permission and provide it to any subsequent owner, as applicable. A user shall ensure that MEWP supervisors and operators are aware and comply with the requirement that only the MEWP owner can authorize a modification to a MEWP.			x	x					-
MAINTENANCE, INSPECTION AND REPAIR									
Scheduled Maintenance	Toronto.		100			-	-		
5.1.1 The MEWP owner shall arrange that the maintenance specified in this standard is properly performed on a timely basis. The owner shall establish a preventive maintenance program in accordance with the manufacturer's recommendations and take into account the environment of the work place and severity of use of the MEWP.			x						
5.1.2 The owner shall comply with the scheduled maintenance program including inspections as defined in this section of this standard and by the manufacturer's requirements and safety related bulletins. All malfunctions and problems identified that affect safe operation shall be corrected by a qualified person and authorized by the owner before the MEWP is returned to service.			x						



TRAINING RESOURCES

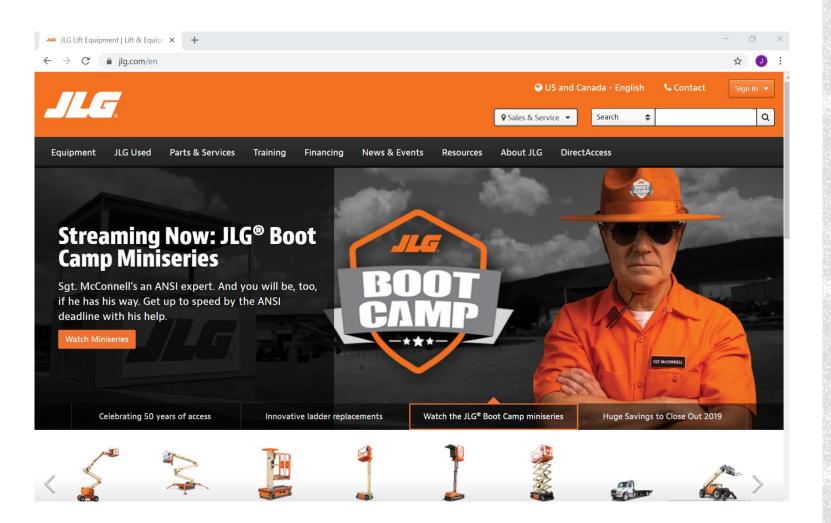


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