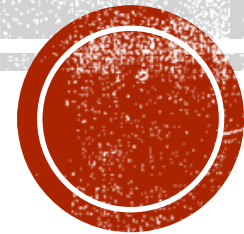


# ANSI A92 STANDARDS



# 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 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 **ONE YEAR** 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:



**MACHINE DESIGN**



**SAFE USE**



**TRAINING**

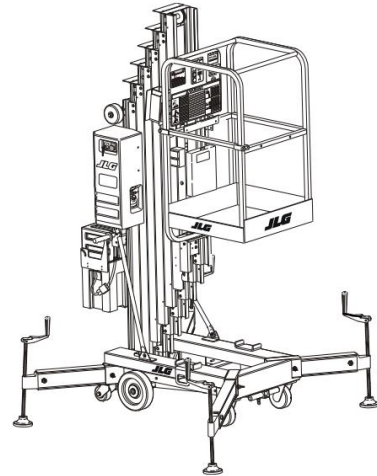


# MOBILE ELEVATING WORK PLATFORMS (MEWPS)

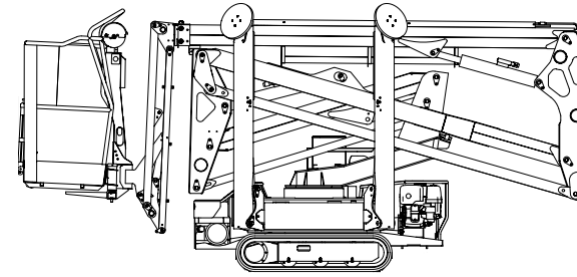
**MEWWP**



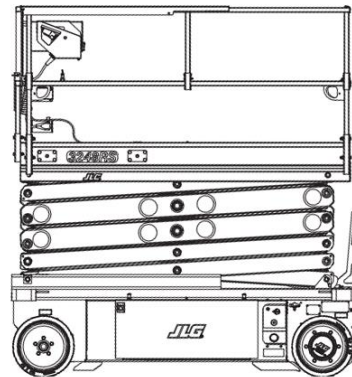
# MEWP CLASSIFICATION



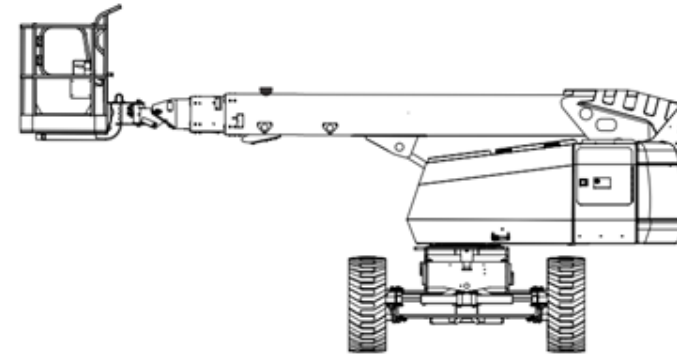
Type 1, Group A



Type 1, Group B



Type 3, Group A



Type 3, Group B





# BOOM LIFTS- COMBUSTION



## Wind Loading Tests

- 28 mph Outdoor Rating per new standard

## Secondary Guarding System

- Function Reversal and Audible Alarm (SKYGUARD)



## 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



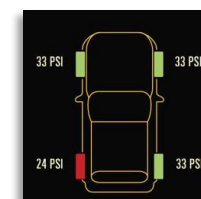
## Load Sensing System

- No reduced capacity
- Simplified system
- Single load sensor



## 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

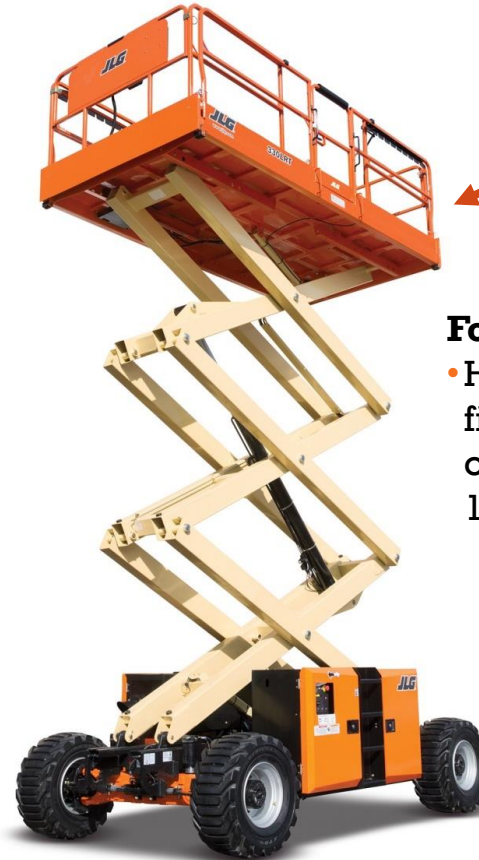


## Wind Loading Tests

- Rated to 28 mph with rated platform capacity

## Load Sensing System

- 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.***

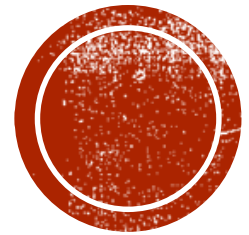


# LOAD SENSING SYSTEM (LSS)

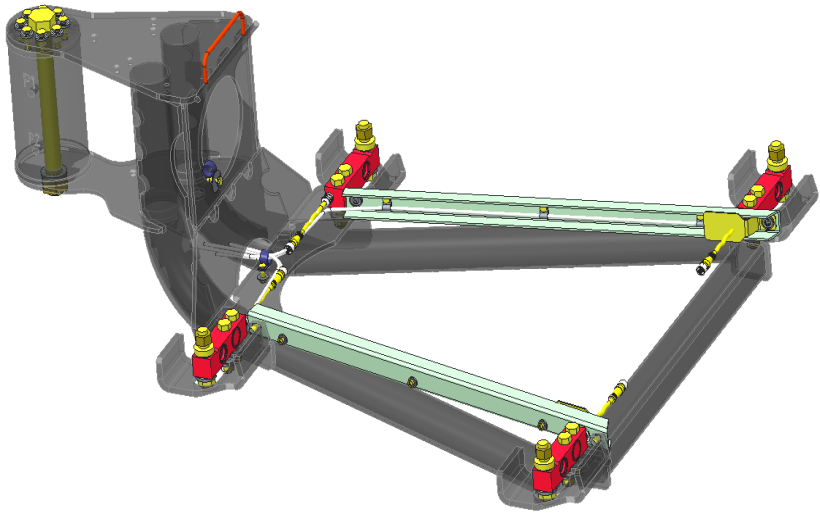
- Stability Testing Before and After
  - Test Plate placed in center of platform, side pull...weight moved to one side (2 people installing pipe)...can't pass test anymore.
- LSS more sensitive on booms
  - **Dynamic Loading:** This not pure weight...not your bathroom scale.
  - Calculates Bouncing...Boom 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**

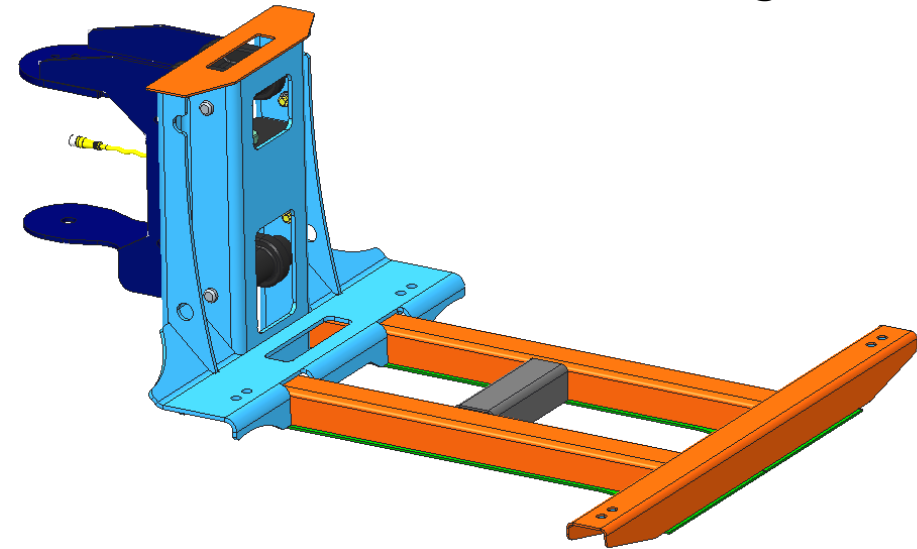


## Current

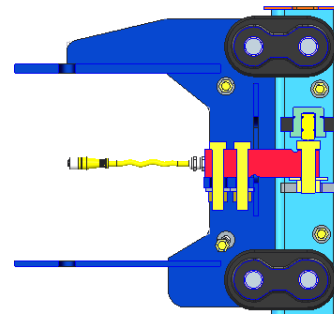


- 4 Shear beams
- Load sense controller

## New Design



- 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

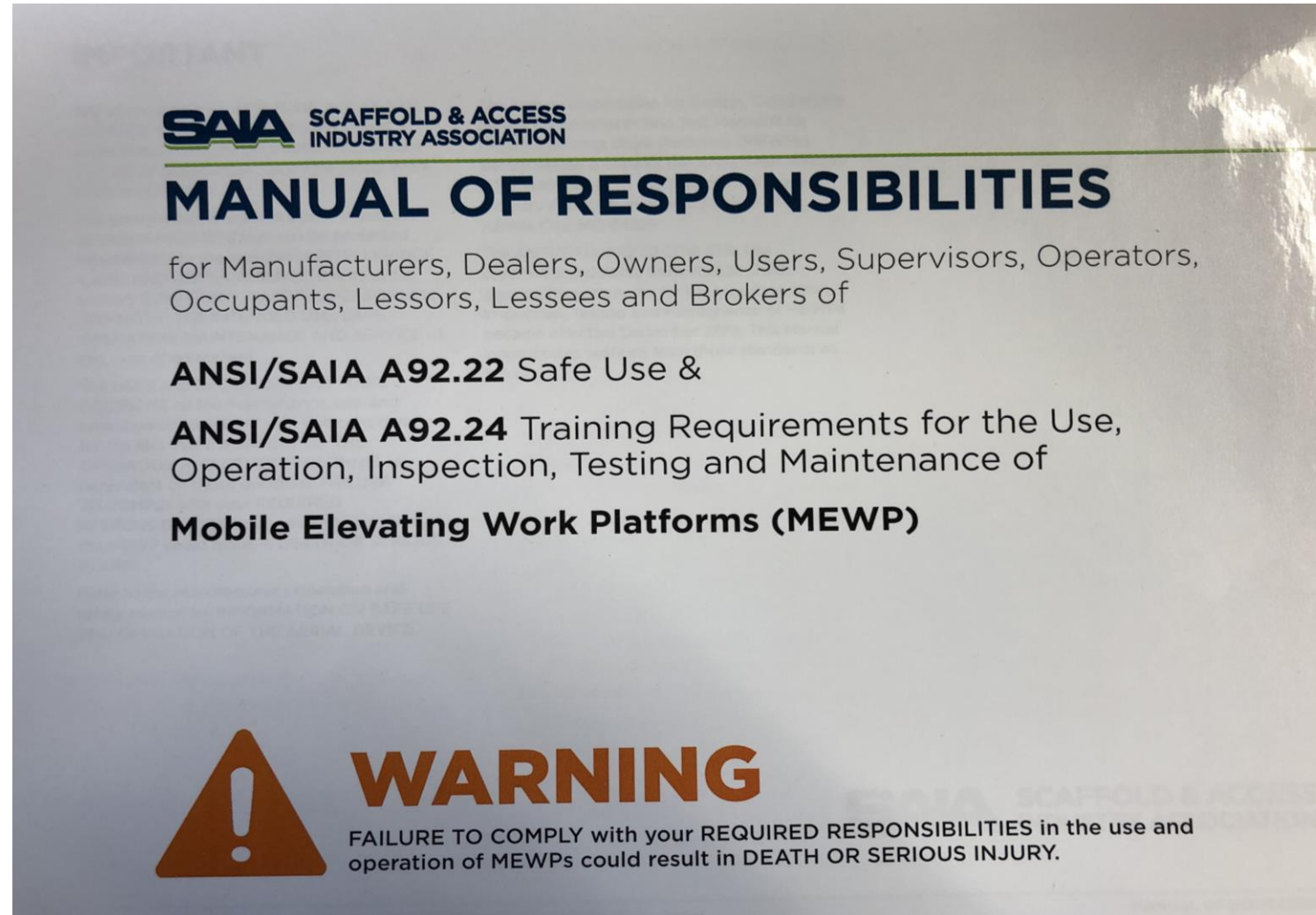
## ▪ **A92.22 & B354.7**

- 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

A92.22 Safe Use of Mobile Elevating Work Platforms (MEWP)

**American National Standard for the Safe Use of Mobile Elevating Work Platforms (MEWPs)**

	MANUFACTURER	DEALER	OWNER	USER	SUPERVISOR	OPERATOR	OCCUPANT	LESSOR	LESEE	BROKER
<b>4.3 Manuals</b>										
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										
4.3.1.1	X	X	X							X
4.3.1.2		X	X				X			X
4.3.1.3		X	X							X
4.3.1.4				X						
4.3.1.5					X					
<b>4.4 Record Retention</b>										
The following records shall be retained by the designated entities for a period of at least four years:										
1)	X	X	X							X
2)			X							
3)		X	X							
4)	X	X	X							
<b>4.5 Modifications</b>										
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.										
<b>5 MAINTENANCE, INSPECTION AND REPAIR</b>										
<b>5.1 Scheduled Maintenance</b>										
5.1.1			X							
5.1.2			X							





# TRAINING RESOURCES

JLG ACCESSREADY

LOG IN

English - United States (en\_us)

MENU HOME English - United States (en\_us)

## ACCESSREADY: FIND QUALIFIED TRAINERS NATIONWIDE

The AccessReady program connects operators with JLG-qualified trainers.

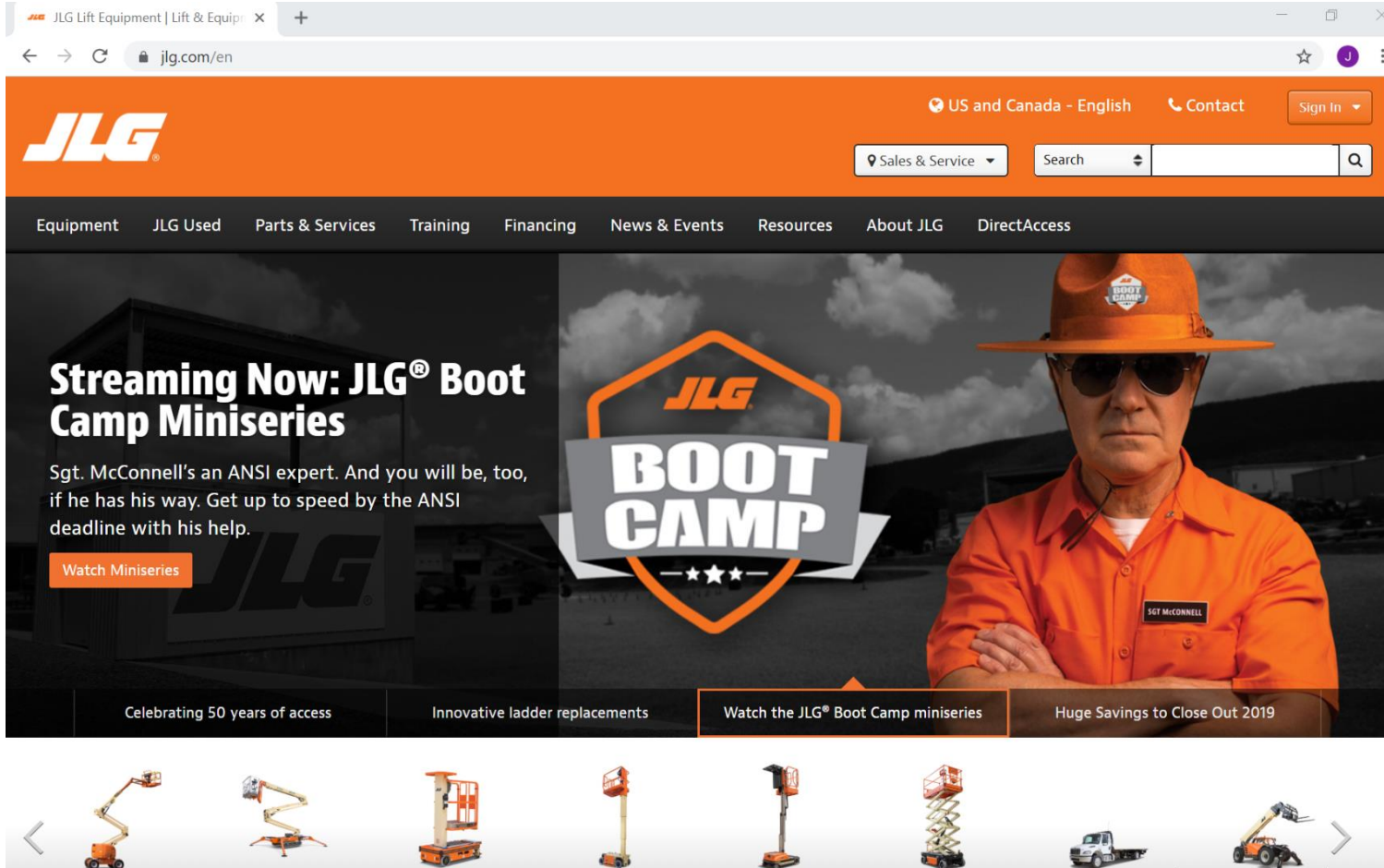
[▶ MORE INFORMATION](#)

## NEW TO THIS SITE?

Watch our orientation video to learn about JLG AccessReady and all the certifications we offer.

[Play Video and Register ▶](#)





# JLG RESOURCES

- JLG.com
  - JLG ANSI Boot Camp
  - Manuals and Literature
  - YouTube



**THANK YOU!**

