

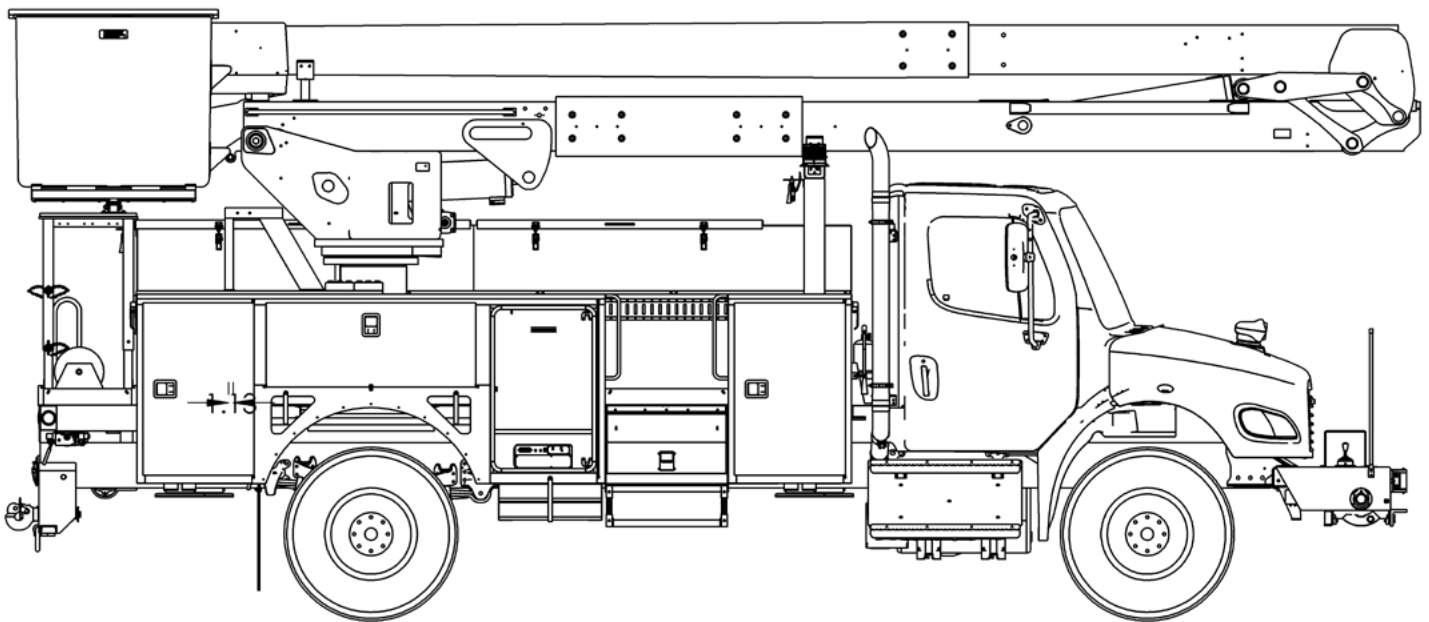


**TEREX®**

# TECH TIPS

**SIMPLIFIED LOAD ALERT SYSTEM (LAS) TESTING**

**NO. 178**



**SERVICE CALL:  
SIMPLIFIED LOAD ALERT SYSTEM  
(LAS) TESTING**



**MODEL(S):  
ANY AERIAL UNIT WITH THE  
SIMPLIFIED LAS SYSTEM**



**TOOLS NEEDED:  
WEIGHTS UP TO 1700-1800 LBS.  
7/16" RATCHET WRENCH**

**TEREX UTILITIES TECHNICAL SUPPORT TEAM**

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## **DANGER**

Failure to obey the instructions and safety rules in the appropriate Operator's Manual and Service Manual for your machine will result in death or serious injury.

Many of the hazards identified in the Operator's Manual are also safety hazards when maintenance and repair procedures are performed.

## **DO NOT PERFORM MAINTENANCE UNLESS:**

- ✓ You are trained and qualified to perform maintenance on this machine.
- ✓ You read, understand and obey:
  - manufacturer's instructions and safety rules
  - employer's safety rules and worksite regulations
  - applicable governmental regulations
- ✓ You have the appropriate tools, lifting equipment and a suitable workshop.

The information contained in this Tech Tip is a supplement to the Service Manual. Consult the appropriate Service Manual of your machine for safety rules and hazards.



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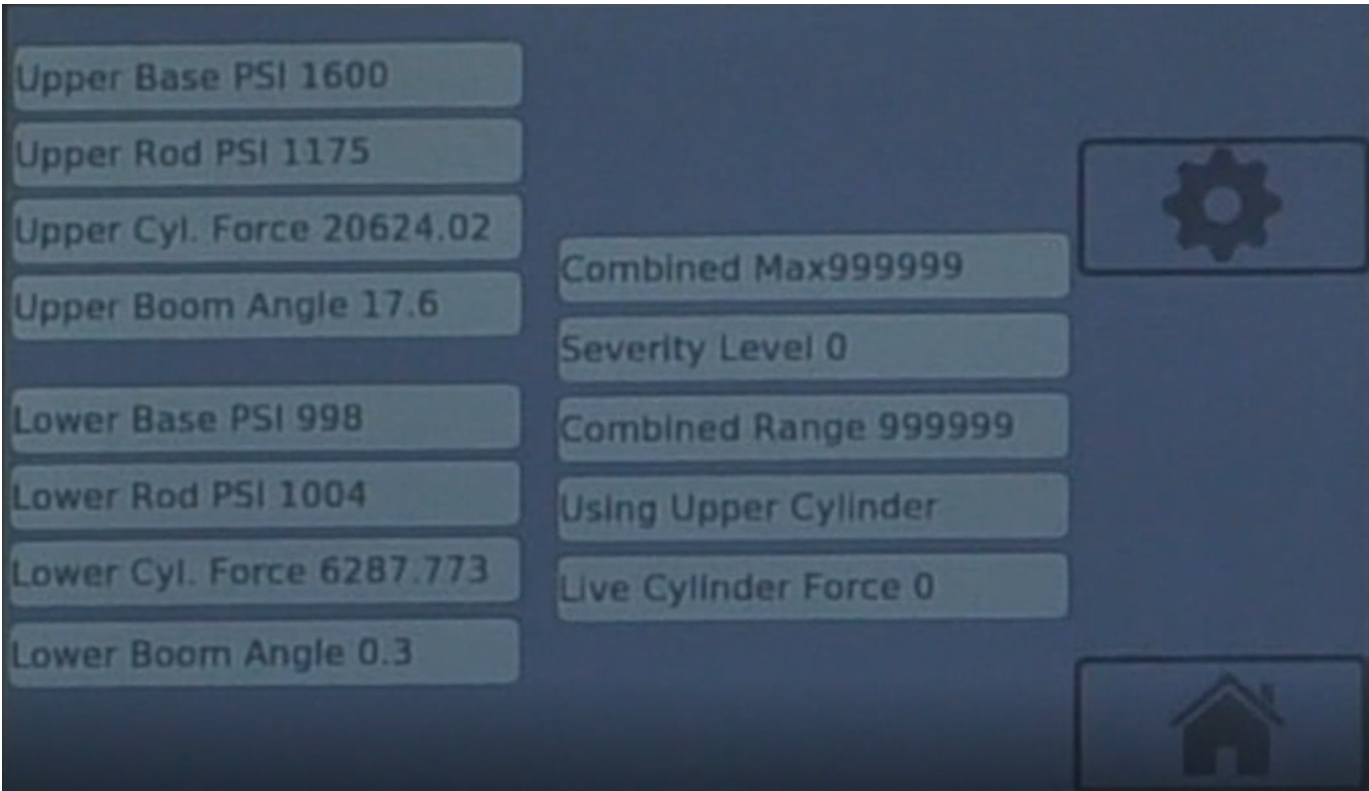
# INTRODUCTION

Prior to testing the system, perform **Tech-tip 170** on calibrating the LAS system.

## STEP 1

From the home screen, advance to the screen that shows the cylinder pressures and boom angles. Verify the pressures are reading correctly.

With upper boom fully extended or unfold, so the cylinder is dead-headed, Upper Base PSI will show system pressure. If not make sure the sensors are plugged in correctly. If sensors are correct, then follow **Tech-tip 177** to bleed the sensing lines.



## STEP 2

Remove all material from the platform including the liner. Retract the jib to the fully retract position. Make sure the jib is parallel with the upper boom. Verify that the hook has a safety latch and is rated for the load being lifted.

## STEP 3

Reference the load chart to determine what weight can be used. The test weight will be the combined capacity of the platform and the jib.

### Example for an HRX:

With the lower boom at 80 degrees and the upper boom at 30 degrees, a test weight of 1500 lbs. will be used.

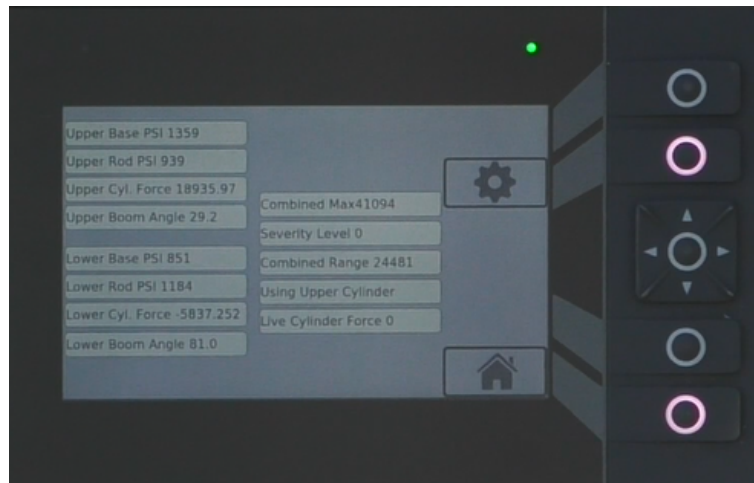
The 500 lb. platform capacity combined with the 1000 lb. jib capacity equals 1500 lbs. at 30 degrees using the load chart below.

TEREX UTILITIES					
XML/HRX 55 JIB AND BASKET CAPACITIES					
Maximum Jib Load		2000	1500	750	500
Upper Boom Angle	Basket Capacity	Jib Capacity at Load Radius Shown			
		0	0-2'	2-4'	4-6'
-60	500	1690	1500	750	500
-30	500	920	860	750	500
0	500	860	810	750	500
30	500	1020	1000	750	500
60	500	2000	1500	750	500
90	500	1730	1500	750	500
120	500	590	580	580	500
150	500	240	240	230	220
180	500	200	200	200	200
1) Capacities are in pounds.					
2) Jib capacity shown is in addition to basket capacity shown. If the platform capacity rating is different than the basket capacity shown, use the lower value. Maximum winch capacity is 2000 pounds					
3) 90% of unused basket capacity may be added to the jib capacity, but do not exceed the maximum jib load shown.					
4) If the aerial device is modified in any way or remounted, Terex Utilities must be notified as capacities shown may be affected.					

## STEP 4

Attach the load line to the weight. Position the weight directly under the platform to prevent side-loading. Tighten the load line with the winch, but do not lift the load. Once the load line is tight, lift the load using upper boom up. When the load is 2-3 ft off the ground, stop and verify that no overload has occurred.

**Note:** Upper cylinder force will be less than the combined max, unless it is overloaded.



## STEP 5

Lower the load and add 200 lbs. Reposition the upper boom to get it back to 30 degrees. Lift with the upper boom. Verify it is in overload mode.



## STEP 6

If the system does not show an overload, Lower the upper boom to below 30 degrees, tighten the load line and try again.

Once an overload is verified, lower the load, and remove it from the load line.

## STEP 7

Push the reset button at the display panel. This will put the system back into operational mode.

## STEP 8

Put everything back into the platform and store the unit.



FOR FURTHER ASSISTANCE,  
CONTACT THE TEREX UTILITIES TECHNICAL SUPPORT TEAM  
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