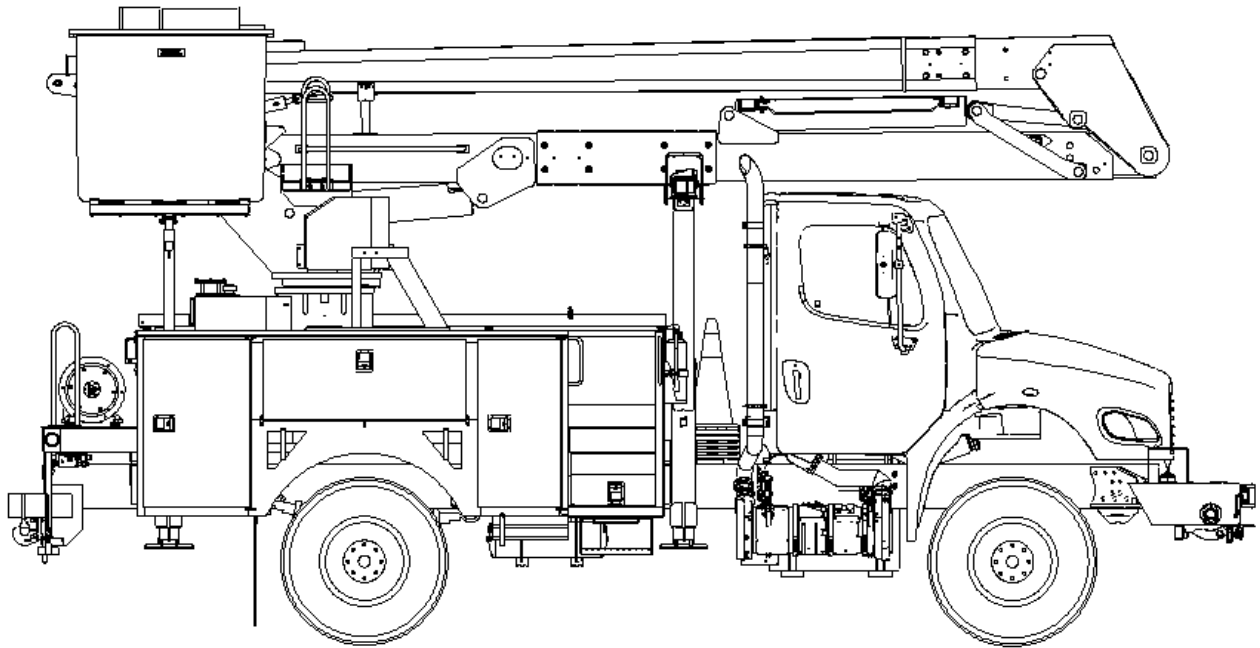




TECH TIPS

AERIAL LOAD CHARTS P/N 467409

NO. 186



GENERAL KNOWLEDGE
AERIAL LOAD CHARTS



MODEL(S):
AERIAL UNITS USING LOAD
CHART 467409



TOOLS NEEDED:
NONE

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

An operator will move a transformer from the ground and position it on a pole. Using the information in the following steps, determine the maximum jib capacity for the lift plan.



This tech-tip demonstrates how to use a load chart. Always use the unit specific load chart to determine capacities and to plan the path of the load.

STEP 1

Using the information provided in the table, determine the maximum jib capacity.

HR46M JIB LIFTING CAPACITIES				
WINCH DRUM CENTER TO LOAD LINE				
LOWER BOOM 10° TO 107°				
UPPER BOOM ANGLE				
	0' TO 1'	1' TO 3'	3' TO 5'	
90°	1500	800	500	LOWER BOOM OVER 107° 150 LB. CAPACITY WITH LOAD LINE AT 0-3 FT.
75°				
60°				
45°				
30°	1100			
15°	750	650		
0°	THERE MUST BE A MINIMUM OF 10° BETWEEN THE BOOMS			
-15°				
-30°	1100			
-45°	1500	800		
-60°				

EQUIPPED AS FOLLOWS:

- HYDRAULIC JIB EXTEND, SINGLE SIDE MOUNTED PLATFORM.
- 525 LB. PLATFORM CAPACITY WITH LIFT AND HD ELBOW CYL
- CAPACITIES ARE IN LB.

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Load Radius	2 feet	Liner	60 lbs.
Operators	195 lbs	Tools	65 lbs.
Upper Boom Angle	15 to 60 degrees	Lower Boom Angle	30 to 94 degrees

STEP 2

Determine if the load in the platform is within capacity. Using the load chart, the platform capacity is 525 lbs. The weight of the Operator + Liner + Tools = 195 + 60 + 65 = 320 lbs. The total weight is within the platform capacity.

Load Radius	2 feet	Liner	60 lbs.
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-45°	1500	800		
-60°				

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STEP 4

The load radius is 2 feet. Based on this load radius, we will be using the 2nd band in the loadchart for a radius of 1' to 3'.

Load Radius	2 feet	Upper Boom Angle	15 to 60 degrees
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	60°				
	45°	1100	650	500	
	30°				
	15°	750	650	500	
	0°	THERE MUST BE A MINIMUM OF 10° BETWEEN THE BOOMS			
	-15°	1100	800	500	
	-30°				
	-45°	1500	800	500	
	-60°	1500	800	500	

EQUIPPED AS FOLLOWS:

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FIGURE 4

STEP 5

Using the range of upper boom angles, the lowest capacity throughout the entire range must be used. The jib capacity in this situation is 650 lbs.

Note: It is required to keep a minimum of 10 degrees between the booms.

Load Radius	2 feet	Upper Boom Angle	15 to 60 degrees
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FIGURE 5



FOR FURTHER ASSISTANCE,
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