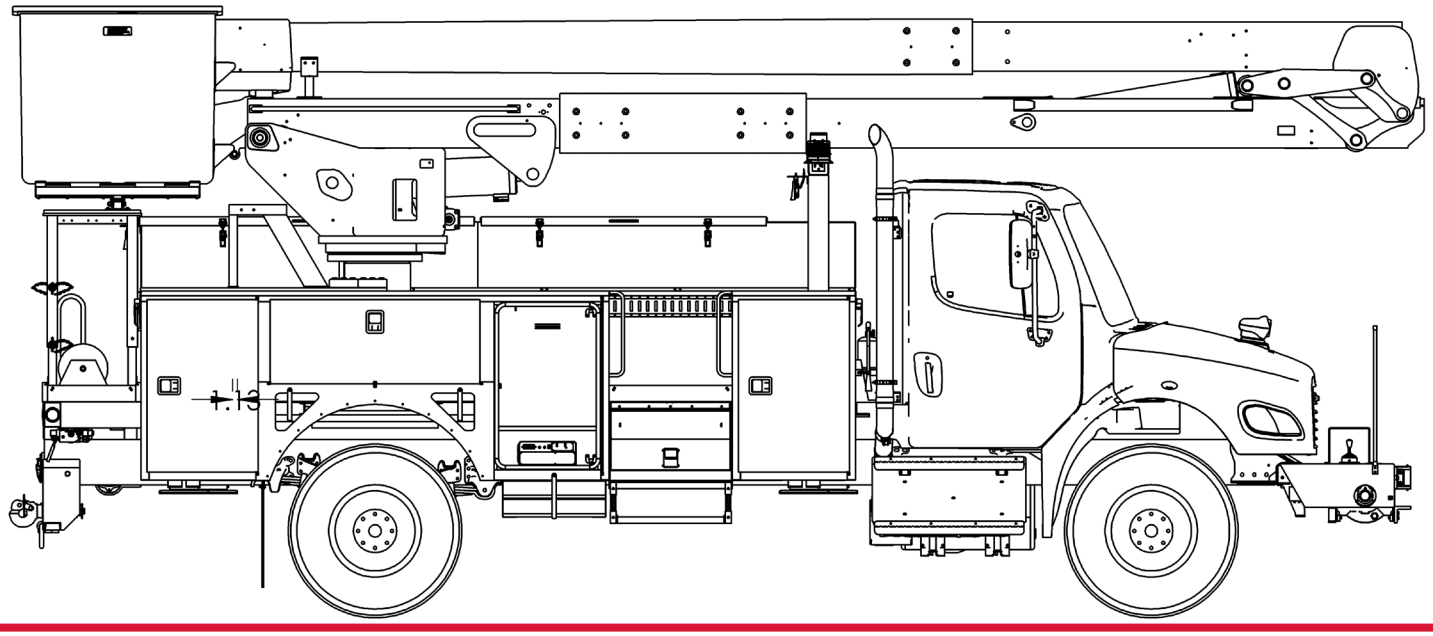
TEREX

TECH TIPS

AERIAL LOAD CHARTS P/N 623119

NO. 07



GENERAL KNOWLEDGE
AERIAL LOAD CHARTS

MODEL(S):
AERIAL UNITS USING LOAD CHART 623142

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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TECH TIP 7 | RELEASED 01.12.2026 | VERSION 1.1

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TECH TIP#07

INTRODUCTION

An operator will move a transformer from the ground and position it on a pole. Using the information in the following steps, determine if the lift plan can be achieved while remaining within the limits of the load chart.

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

The transformer has a known weight of 350 lbs. Performing a dry run, the operator determined the boom angles required to move and place the transformer.

TL80/112 JIB LIFTING CAPACITIES

UB ANGLE	JIB EXTENSION STAGE 1ST EXT	2ND EXT	3RD EXT
75°	1500	1200	900
60°			
45°	1200	900	700
30°	1000	800	600
15°	900	700	500
0°	900	700	500
-15°	600	400	300
-25°	300	200	100
MAX	1500	1200	900

EQUIPPED AS FOLLOWS:

- END MOUNT BOOM TIP
- 700 LB. PLATFORM CAPACITY.
- CAPACITIES ARE IN LB.
- 90% OF THE UNUSED BASKET CAP. CAN BE ADDED TO THE JIB, NOT TO EXCEED VALUES SHOWN IN THE "MAX" ROW

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Jib Ext. Stage	3rd	**Liner**	80 lbs.
Operator	250 lbs.	**Operator 2**	220 lbs
Tools	60 lbs.	**Transformer**	350 lbs.
Upper Boom Angle	0° to 45°		

STEP 2

Determine if the load in the platform is within capacity.

Using the load chart, the platform capacity is 700 lbs.

The weight of Operator 1 + Operator 2 + Liner + Tools = 250 + 220 + 60 + 80 = 610 lbs.

The total weight is less than the platform capacity.

Jib Ext. Stage	3rd	**Liner**	80 lbs.
Operator	250 lbs.	**Operator 2**	220 lbs
Tools	60 lbs.	**Transformer**	350 lbs.
Upper Boom Angle	0° to 45°		

TL80/112 JIB LIFTING CAPACITIES

JIB EXTENSION STAGE

UB ANGLE	1ST EXT	2ND EXT	3RD EXT
75°	1500	1200	900
60°			
45°	1200	900	700
30°	1000	800	600
15°	900	700	500
0°	900	700	500
-15°	600	400	300
-25°	300	200	100
MAX	1500	1200	900

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STEP 3

According to the information, the jib extension stage is the 3rd Extension. We'll be using the 3rd column to determine the lifting capacities.

Jib Ext. Stage	3rd	Transformer	350 lbs.
Upper Boom Angle	0° to 45°		

TL80/112 JIB LIFTING CAPACITIES

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75°	1500	1200	900
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30°	1000	800	600
15°	900	700	500
0°	900	700	500
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STEP 4

The upper boom angle ranges from 0 to 45 degrees. Through this range the jib capacity ranges from 500 to 700 lbs. The weight of the transformer is 350 lbs. With this information, the capacity is enough to lift the load.

Transformer	350 lbs.	**Upper Boom Angle**	0° to 45°

TL80/112 JIB LIFTING CAPACITIES

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75°	1500	1200	900
60°			
45°	1200	900	700
30°	1000	800	600
15°	900	700	500
0°	900	700	500
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STEP 5

Although this lift doesnt require it, 90% of the unused platform capacity can also be added to the jib up to the MAX capacity shown on the load chart.

(Platform capacity - total weight in the platform) x 90%
(700 - 610) x 90%
90 x .9 = 81 lbs.

81 lbs. can be added to the load chart as long as it doesn't exceed 900 lbs. in this scenerio

TL80/112 JIB LIFTING CAPACITIES

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75°	1500	1200	900
60°			
45°	1200	900	700
30°	1000	800	600
15°	900	700	500
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FOR FURTHER ASSISTANCE,
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