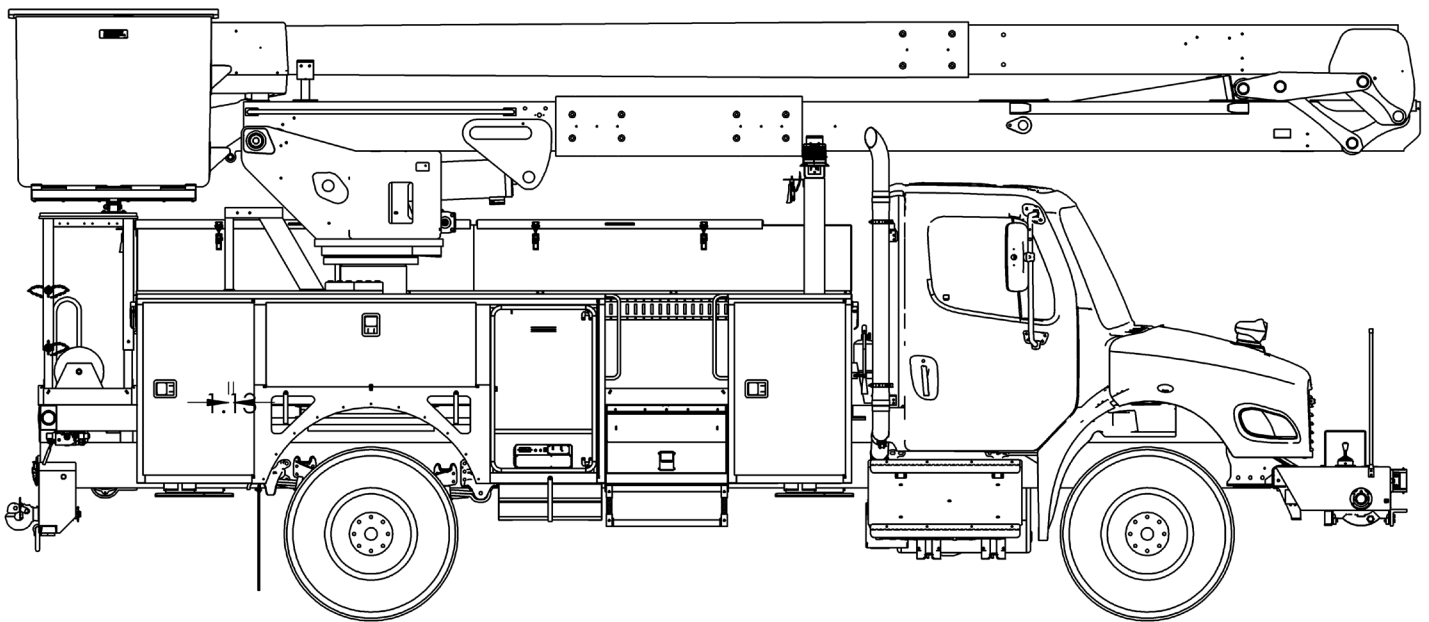




# TECH TIPS

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

PHONE: 1-844-TEREX4U (1-844-837-3948) | EMAIL: [UTILITIES.SERVICE@TEREX.COM](mailto:UTILITIES.SERVICE@TEREX.COM)



## **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.



TECH TIP 7 | RELEASED 04.02.2025 | VERSION 1.0  
©TEREX UTILITIES. ALL RIGHTS RESERVED

# CONTENTS

## TECH TIP #07

4

| Transformer weight

**INTRODUCTION**  
**STEP 1**

5

| Determine weight within platform

**STEP 2**

6

| Jib Extension

**STEP 3**

7

| Upper boom angle

**STEP 4**

8

| Unused platform capacity

**STEP 5**

# 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°		
	60°	1500	1200 900
	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			
623119A			

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			
UB ANGLE	JIB EXTENSION STAGE		
	1ST EXT	2ND EXT	3RD EXT
	75°		
	60°	1500	1200
	45°	1200	900
	30°	1000	800
	15°	900	700
	0°	900	700
	-15°	600	400
	-25°	300	200
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			
623119A			

### 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°		

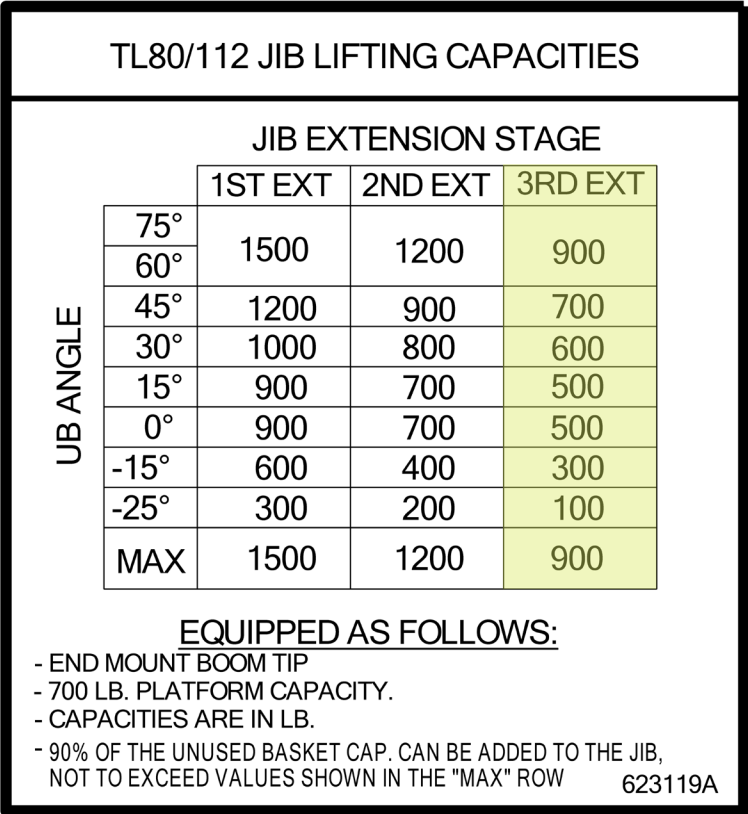


FIGURE 4

## 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

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

623119A

## STEP 5

Although this lift doesn't 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.

$(\text{Platform capacity} - \text{total weight in the platform}) \times 90\%$

$(700 - 610) \times 90\%$

$90 \times .9 = 81 \text{ lbs.}$

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

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				
623119A				





FOR FURTHER ASSISTANCE,  
CONTACT THE TEREX UTILITIES TECHNICAL SUPPORT TEAM  
PHONE: **1-844-TEREX4U (1-844-837-3948)** | EMAIL: [\*\*UTILITIES.SERVICE@TEREX.COM\*\*](mailto:UTILITIES.SERVICE@TEREX.COM)

---