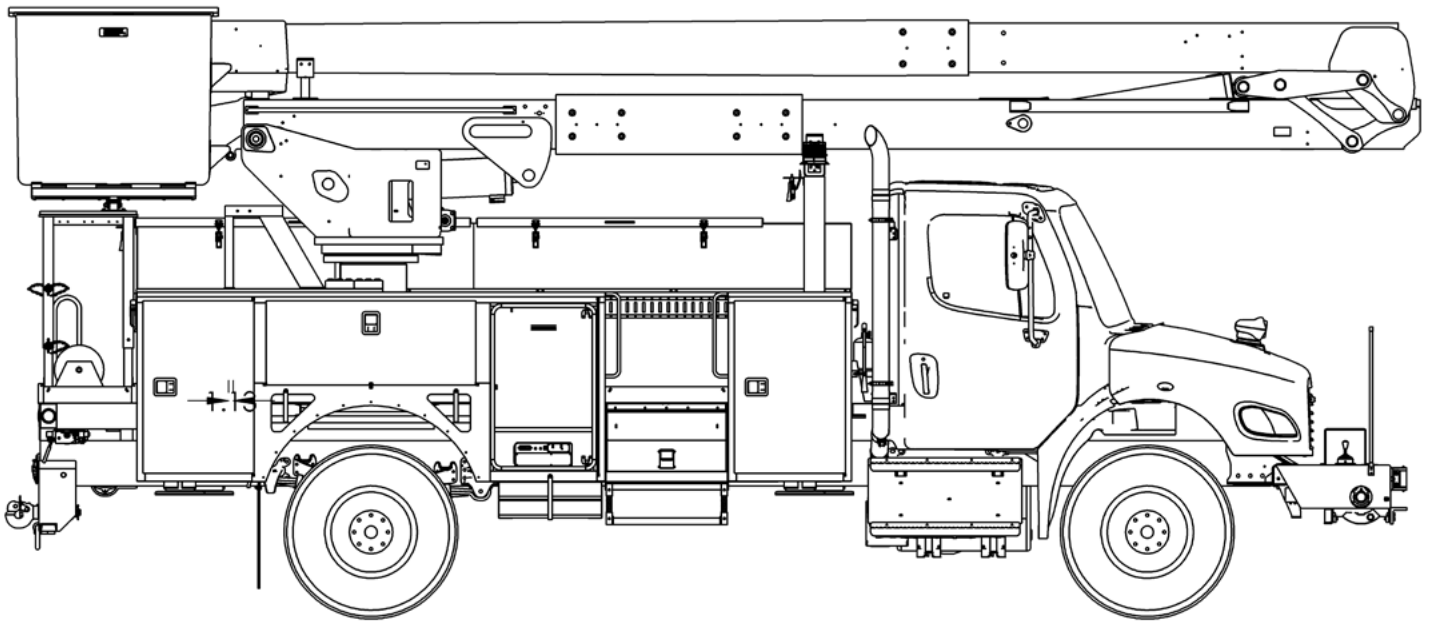![TEREX logo]

TECH TIPS

AERIAL LOAD CHARTS P/N 456738

NO. 183

GENERAL KNOWLEDGE
AERIAL LOAD CHARTS

MODEL(S):
AERIAL UNITS USING LOAD CHART 456738

TOOLS NEEDED:
NONE

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.

CONTENTS
TECH TIP#183

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 515 lbs. Performing a dry run, the operator determined the boom angles required to move and place the transformer range from 0 to 60 degrees.
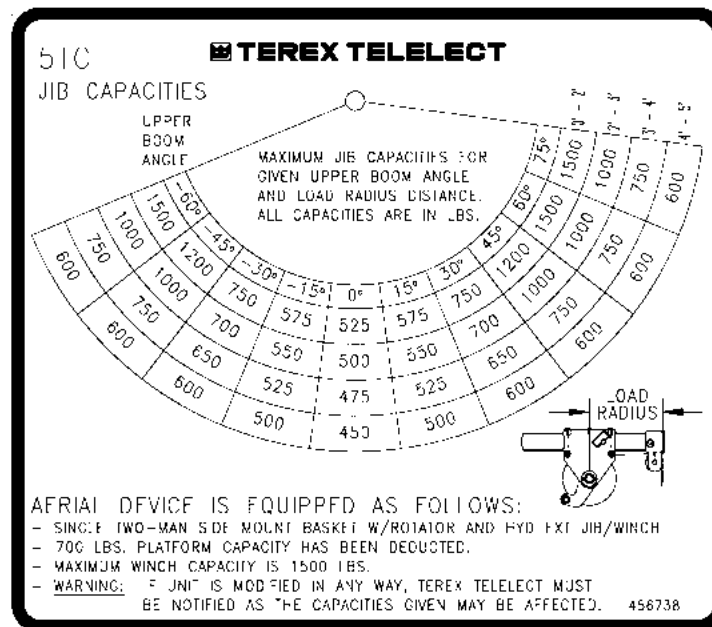

Load Radius	3.5 feet	Liner	80 lbs.
Operators	150 lbs. 180 lbs.	Tools	75 lbs.
Transformer	515 lbs.		

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 the Operators + Liner + Tools = 150 + 180 + 80 + 75 = 485 lbs. The total weight is less than the platform capacity, no weight needs to be removed from the platform.

Load Radius	3.5 feet	Liner	80 lbs.
Operators	150 lbs. 180 lbs.	Tools	75 lbs.
Transformer	515 lbs.		
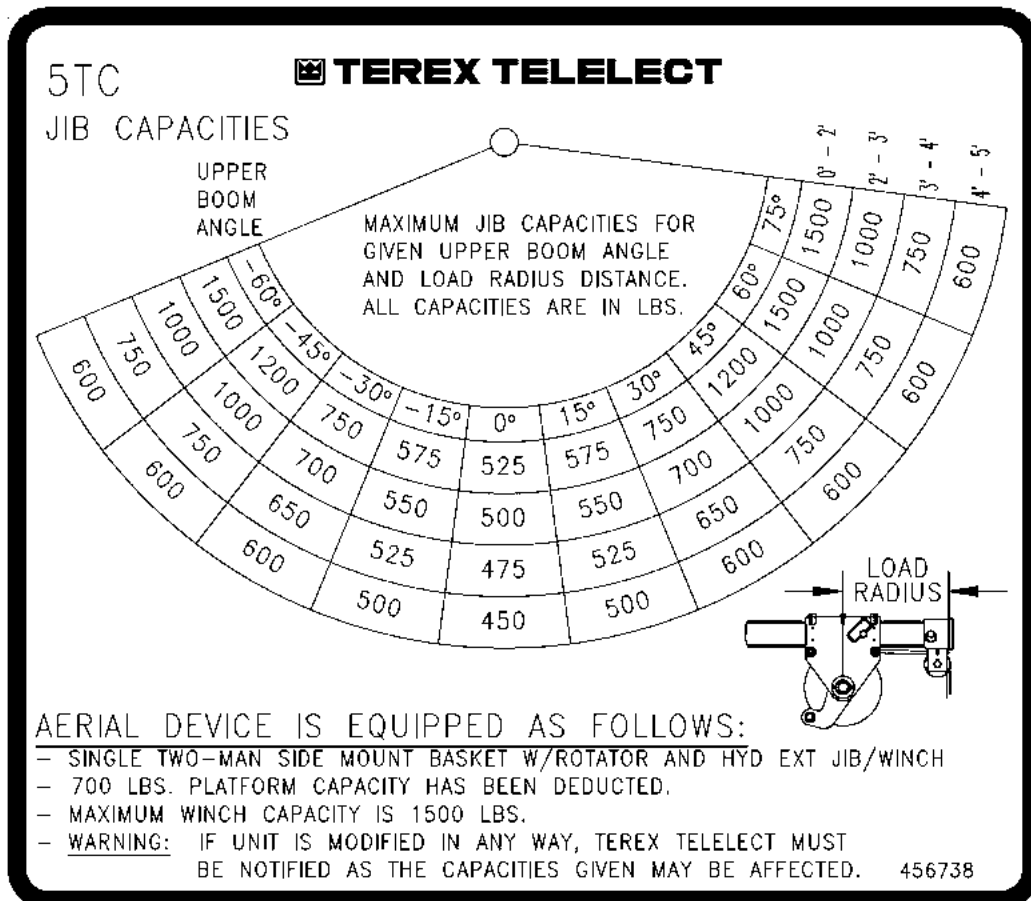
STEP 3

During the dry run, the operator determined the upper boom angle would required a range of 0 degrees to 60 degrees to complete the lift. This range is highlighted in **Figure 3.**

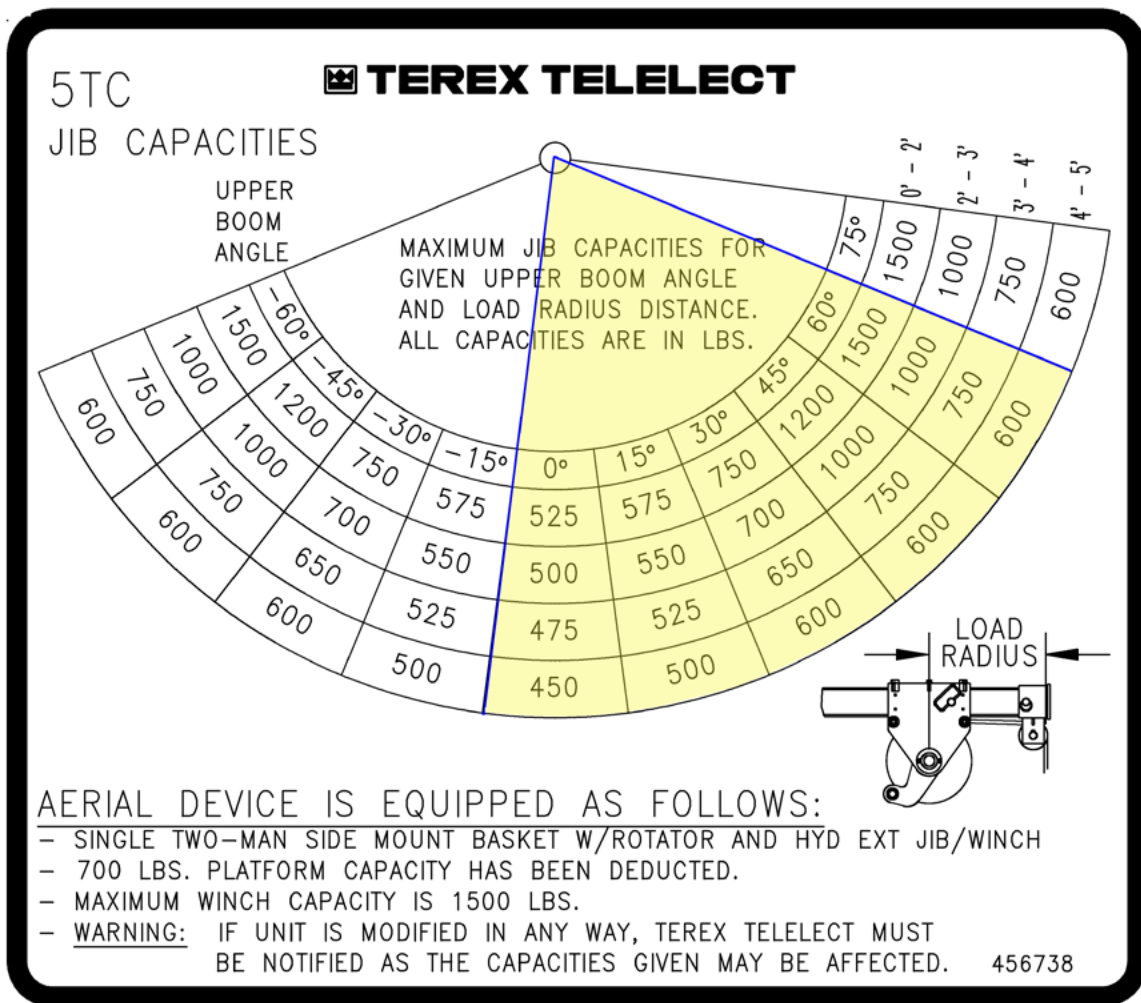| Load Radius	3.5 feet	Transformer	515 lbs.
Minimum UB Angle	0 Degrees	Maximum UB Angle	60 Degrees

FIGURE 3

STEP 4

The load radius is 3.5 feet. Based on this load radius, we will be using the 3rd band in the loadchart for a radius of 3' to 4'.

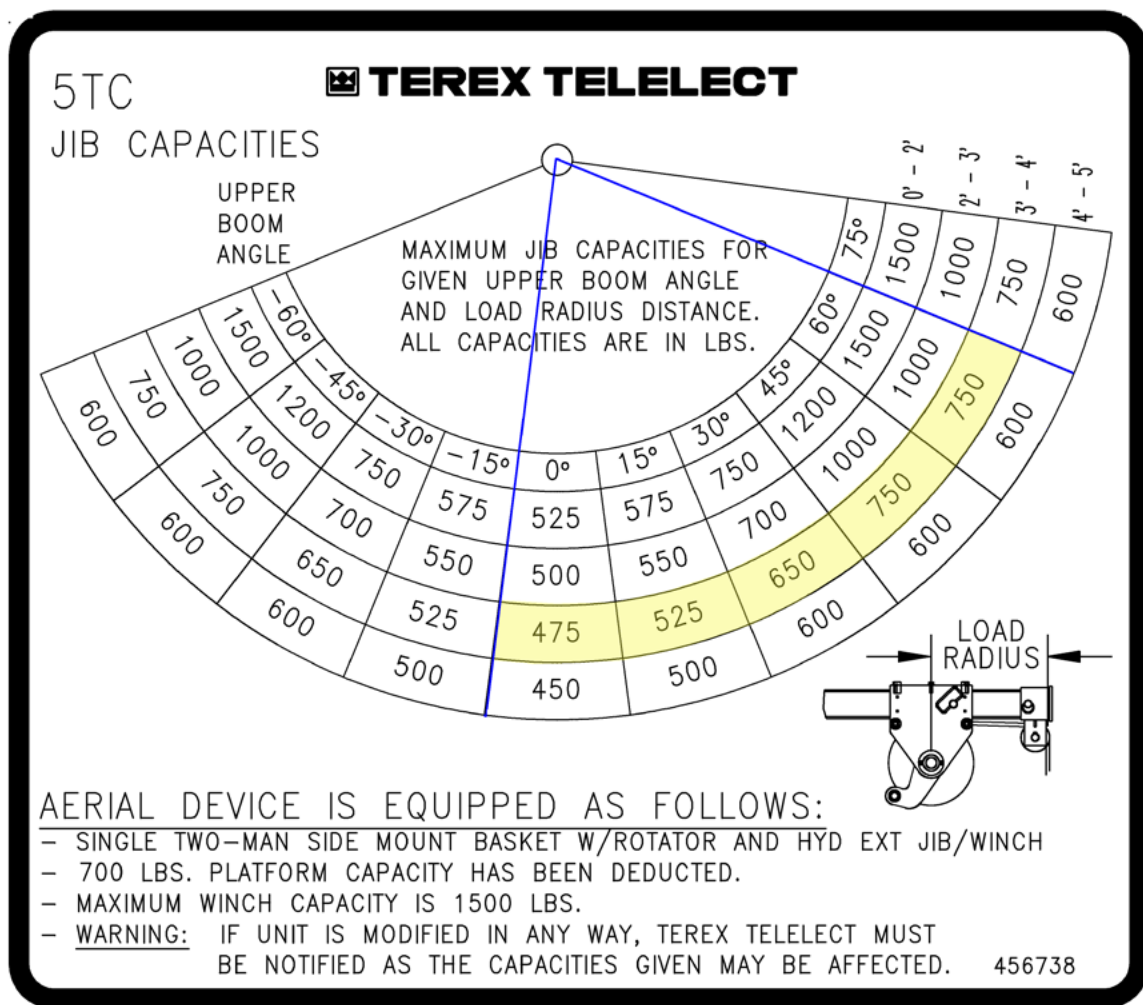| Load Radius	3.5 feet	Transformer	515 lbs.
Minimum UB Angle	0 Degrees	Maximum UB Angle	60 Degrees

FIGURE 4

STEP 5

The weight of the transformer is 515 lbs. Looking at the load chart, the maximum capacity at 0 degrees is 475 lbs. To perform this lift the unit must be repositioned to either accommodate a load radius of 0 to 2 feet, or a minimum upper boom angle of 15 degrees.

Whichever configuration is used, the weight of the load must be within capacity from the pick-up point, through the complete path, to the drop-off point.
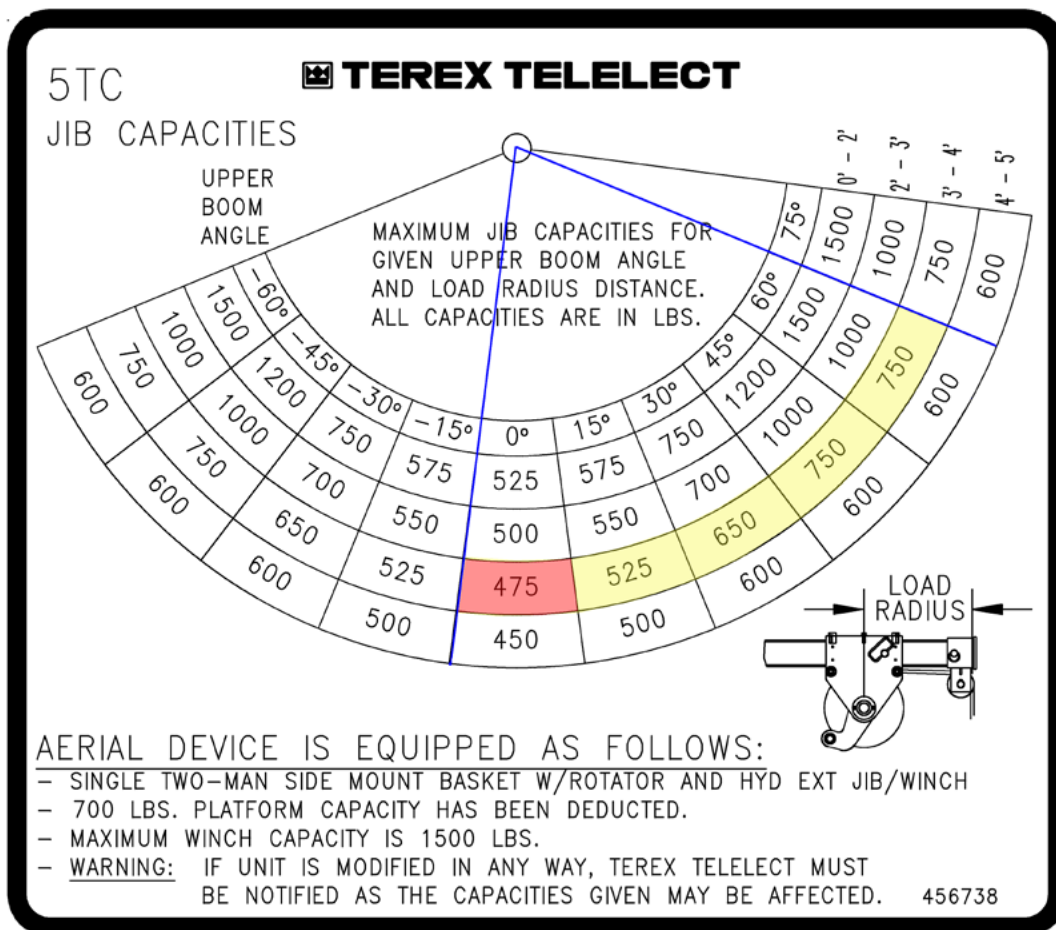

FIGURE 5

TEREX®

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