742
944
1155
TELEHANDLER

OPERATOR'S MANUAL

Revision D - 03/07

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PART #908477

Mustang Manufacturing Company, Inc.

Mustang 742, 944 and 1155 Telehandler Operator Manual

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Machine: Telehandler

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- Specifications
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- Hydraulic Schematics
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Sample pages follow. Full manual: machinecatalogic.com

Chapter 1

INTRODUCTION

The information in this Operator's Manual was written to give the owner/operator assistance in preparing, adjusting, maintaining and servicing of the Telehandler. More importantly, this manual provides an operating plan for safe and proper use of the machine. Major points of safe operation are detailed in the **SAFETY** chapter of this manual.

The Mustang Manufacturing Company asks that you read and understand the contents of this manual COMPLETELY and become familiar with your new machine BEFORE operating it.

This Telehandler is primarily intended for use as a material handler. However, it may be equipped with an optional system: the Work Platform Safety (WPS) System, which is intended for use when lifting personnel. When there is no other practical option available, this machine, when equipped with the WPS System, is approved for use to lift personnel, but only with an approved work platform, with the WPS System activated, and in full compliance with the "Mandatory Work Platform Safety Rules" (see SAFETY chapter).

The use of this Telehandler is subject to certain hazards that cannot be eliminated by mechanical means, but only by the exercise of intelligence, care and common sense. It is therefore essential to have competent and careful operators, who are not physically or mentally impaired, and who are thoroughly trained in the safe operation of the equipment and the handling of the loads.

Throughout this manual information is provided that is set in *italic* type and introduced by the word **IMPORTANT** or **NOTE.** Be sure to read carefully and comply with the message or directive given. Following this information will improve your operating or maintenance efficiency, help you to avoid breakdowns or damage and extend your machine's life. A chart of standard hardware torques is located in the back of this manual.

A storage pocket in the back of the seat is provided for storing the Operator's Manual. After using the manual, please return it to the storage pocket and keep it with the unit at all times! If this machine is resold, Mustang Manufacturing Company recommends that this manual be given to the new owner.

If this machine was purchased "used," or if the owner's address has changed, please provide your Mustang dealer or Mustang Manufacturing Company Service Department with the owner's name and current address, along with the machine model and serial number. This will allow the registered owner information to be updated, so that the owner can be notified directly in case of an important product issue, such as a safety update program.

"Right" and "left" are determined from a position sitting on the seat and facing forward.

Our wide dealership network stands ready to provide any assistance that may be required, including genuine Mustang service parts. All parts should be obtained from or ordered through a Mustang dealer. Give complete information about the part and include the model and serial number of the machine. Record the serial number in the space provided on the previous page, as a handy record for quick reference.

Mustang Manufacturing Company reserves the right to make changes or improvements in the design or construction of any part without incurring the obligation to install such changes on any unit previously delivered.

Mustang, in cooperation with the Society of Automotive Engineers, has adopted this

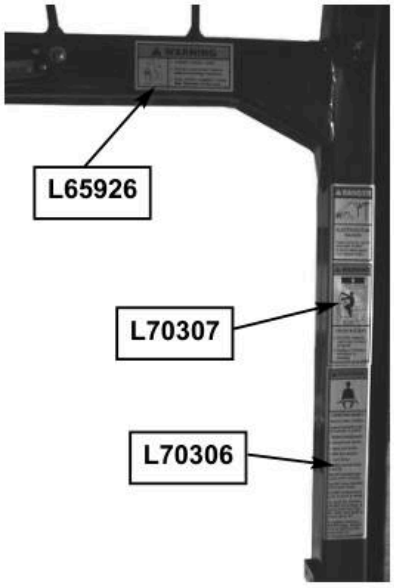
Safety Alert Symbol



to pinpoint characteristics which, if NOT properly followed, can create a safety hazard. When you see this symbol in this manual or on the machine itself, you are reminded to BE ALERT! Your personal safety is involved!

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SAFETY



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DANGER

ELECTROCUTION HAZARD

Keep machine, boom and load 10 feet (3 m) or more away from power lines.

WARNING

CRUSH HAZARD

- DO NOT remove right side window or panel.
- Replace if broken, damaged or missing.

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WARNING

OVERTURN HAZARD

Always fasten seatbelt.

Inspect worksite to be sure ground is stable.

Before raising boom:

- Consult load charts,
- Apply park brake,
- Shift into Neutral,
- Level frame.

DO NOT exceed rated capacity.

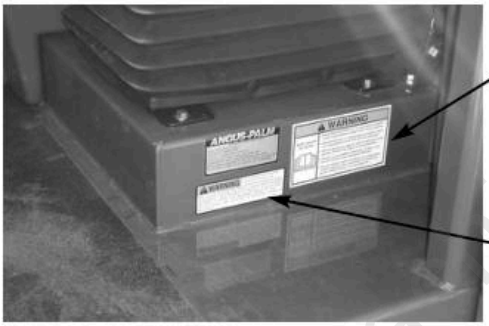
DO NOT position load using frame leveling.

DO NOT move machine with boom raised.

DO NOT transport load with jib boom or winch.

To avoid rear overturn, DO NOT tilt jib boom or winch back more than 45° when main boom is raised above 45°.

If machine overturns, DO NOT jump. Instead, hold on tight and lean away from tail.



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WARNING

AVOID INJURY OR DEATH

- Read Operator's Manual (in seat pouch) and all safety signs before using or servicing machine.
- Owner/employer is responsible to ensure users are instructed on safe use and maintenance.
- OSHA regulations require forklift operators to be trained, tested and judged to be competent.
- Check machine before operating. Inspect and service machine per Operator's Manual.
- Do not modify machine without manufacturer's written approval. For information and service parts, contact dealer (or manufacturer).

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WARNING

- CARRY LOAD LOW!
- Retract and lower boom before moving machine.
- Stay within stability limits. See Operator's Manual.

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WARNING THE PROTECTION OFFERED BY THIS ROPS/FOPS WILL BE IMPAIRED IF SUBJECTED TO ANY MODIFICATION OR STRUCTURAL DAMAGE AT WHICH TIME REPLACEMENT IS NECESSARY. ROPS/FOPS MUST BE PROPERLY INSTALLED USING FASTENERS OF CORRECT SIZE AND GRADE TORQUED TO THEIR SPECIFIED VALUE. SEAT BELTS MUST BE WORN WHILE OPERATING THIS VEHICLE. 005124

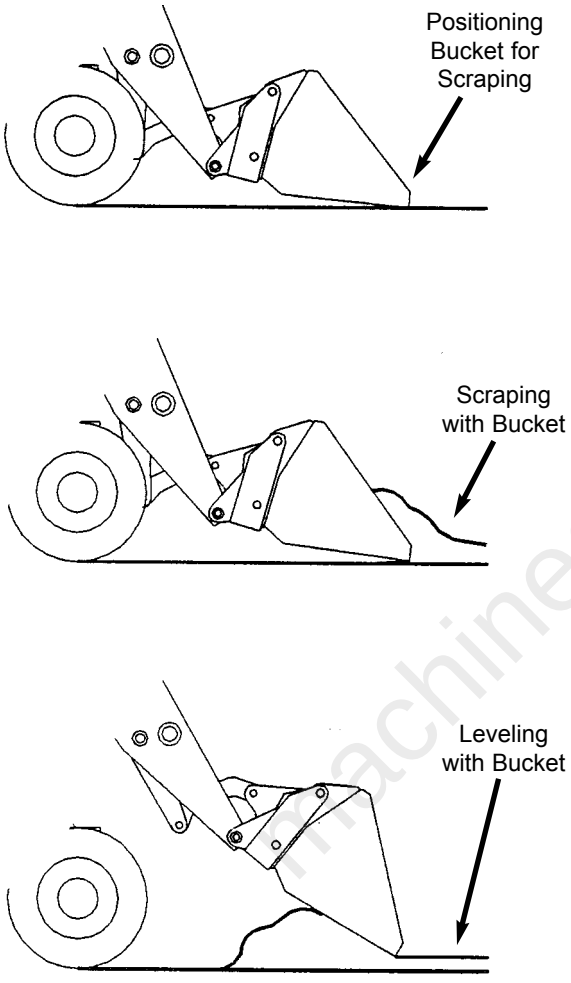
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angle. Then travel slowly forward. With the bucket in this position, material can flow over the cutting edge and collect inside the bucket.

Leveling with a Bucket

First, drive the machine to the outer edge of the area to be leveled. Then, with the boom retracted and down, tilt the bucket forward to place the bucket cutting edge at a 30 to 45 degree angle to the surface being leveled. Next, drive the machine rearward while feathering the boom control joystick, dragging the dirt and, at the same time, leveling it.



Scraping and Leveling with Bucket

ROAD TRAVEL

For short distance highway travel, attach a Slow-Moving Vehicle (SMV) emblem (purchased locally) to the back of the Telehandler. Activate the hazard lights on the machine. For highway operation, obtain and install an amber flashing beacon.

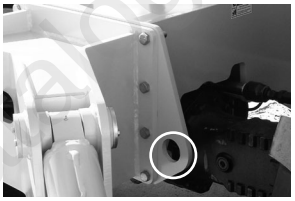
NOTE: *ALWAYS follow ALL state and local regulations regarding the operation of equipment on or across public highways. Whenever there is an appreciable distance between jobsites, or if driving on public highways is prohibited, transport the machine using a vehicle of appropriate size and capacity.*

TRANSPORTING BETWEEN JOBSITES

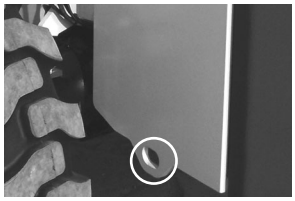
When transporting the Telehandler, know the overall height to allow for clearance of obstructions. Remove or tape over the Slow-Moving Vehicle (SMV) emblem if it will be visible to traffic.

ALWAYS abide by the following recommended procedures and guidelines when using ramps to load the machine onto (or unload it from) a truck or trailer. Failure to heed can result in damage to equipment and serious personal injury or death!

Tie-down slots are provided for inserting chains through to secure the machine while transporting.



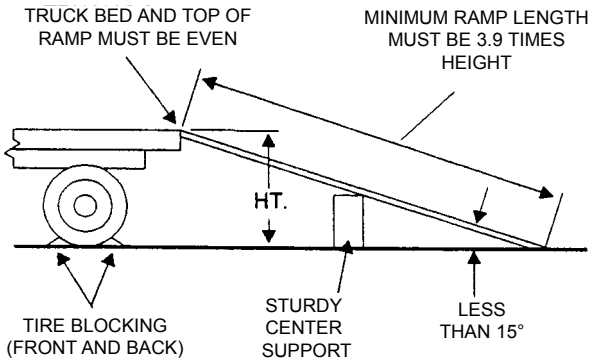
Front Tie Down



Rear Tie Down

Loading Machine Using Ramps

NOTE: *A matched pair of ramps is required.*



Ramp Placement

1. The ramps MUST be of sufficient strength to support the machine. The use of strong steel ramps is recommended, as well as center supporting blocks.

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Activation Tests

To test the WPS System activation logic:

1. Start the engine and press the WPS rocker switch "ON."
   - The WPS System lamp in the switch should be flashing.
2. Apply the service brakes.
   - The WPS switch lamp should be illuminated continuously after three seconds, indicating that the WPS System has been activated.
   - The parking brake should engage, as indicated by the lamp in the parking brake switch illuminating.
   - The carriage tilt and auxiliary functions, which are controlled by the buttons on the joystick handle, should now be disabled. The hydraulic joystick should continue to function normally for boom raise/lower and extend/retract.

Lockout Tests

To test the transmission and joystick control lockout logic:

1. Shift the transmission into "F" (Forward) and increase the engine speed slightly.
   - The transmission should remain de-clutched, allowing the engine to increase speed easily.
   - Return the transmission selector to "N" (Neutral) after the check.
2. Have an assistant move the remote shutdown switch to "Dis-engaged."
   - The hydraulic joystick should now be disabled, so that boom raise/lower and extend/retract will no longer function.
   - Have the assistant move the remote shutdown switch to "Engaged" after the check.
3. Tilt the frame to the right slightly more than two degrees.
   - The hydraulic joystick should now be disabled, so that boom raise/lower and extend/retract no longer function.
   - Repeat the procedure with the frame tilted to the left.
   - Return the frame to a level position after the checks.

De-activation Tests

To test the WPS System de-activation logic:

1. Turn the keyswitch to "OFF" and wait for the engine to stop. Then turn the keyswitch back to "ON."
   - The WPS switch lamp and the parking brake switch lamp should both be illuminated.
2. Turn the keyswitch "OFF" and then press the WPS rocker switch to "OFF." Turn the keyswitch back to "ON."
   - The WPS switch lamp should be flashing and the parking brake switch lamp should be on continuously.
3. Start the engine and apply the service brakes.
   - The WPS switch lamp and the parking brake switch lamp should go off after approximately three seconds of brake pedal application.

If WPS System fails to perform properly, troubleshoot using the chart on page 64. Contact your dealer for service information and parts.

Service Every 50 Hours or Weekly

Refer to the Lubrication chapter of this manual for weekly grease fitting locations and related details.

100 Hours (New Machine Only)

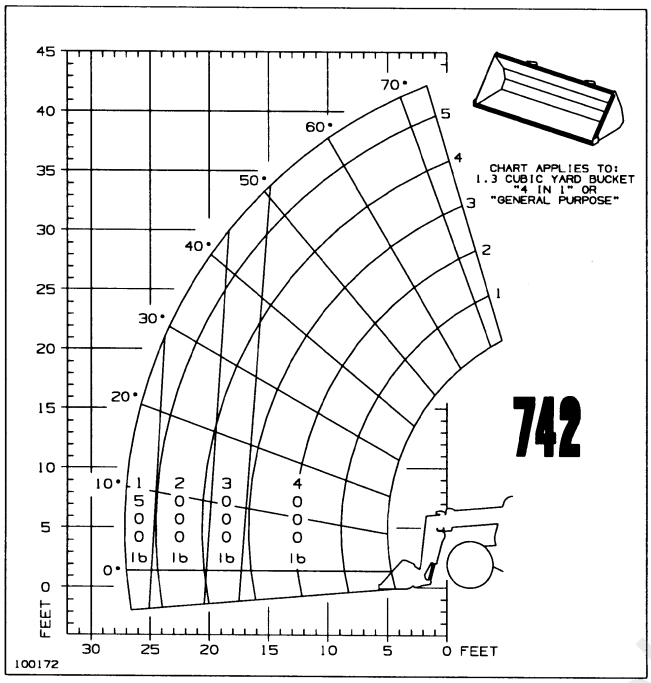
The following initial oil and filter changes should be made at this time on a new machine. Thereafter these changes should be made at the regular maintenance schedule listed. Refer to those schedules for procedures necessary.

Engine Oil and Filter	(250 Hours)
Transmission Oil and Filter	(1000 Hours)
Hydraulic Return Filter Element	(1000 Hours)

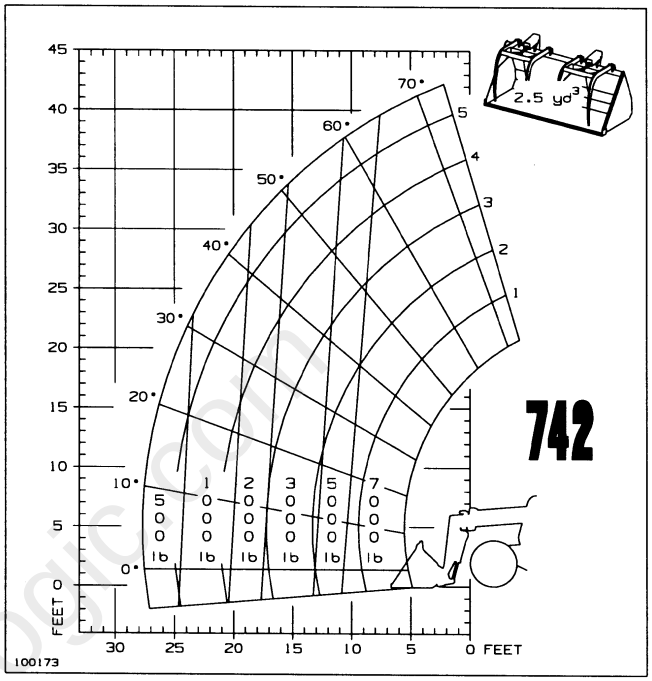
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742 High Boom Load Zone Charts

1.3 Cu.-Yd. Bucket - Decal 100172



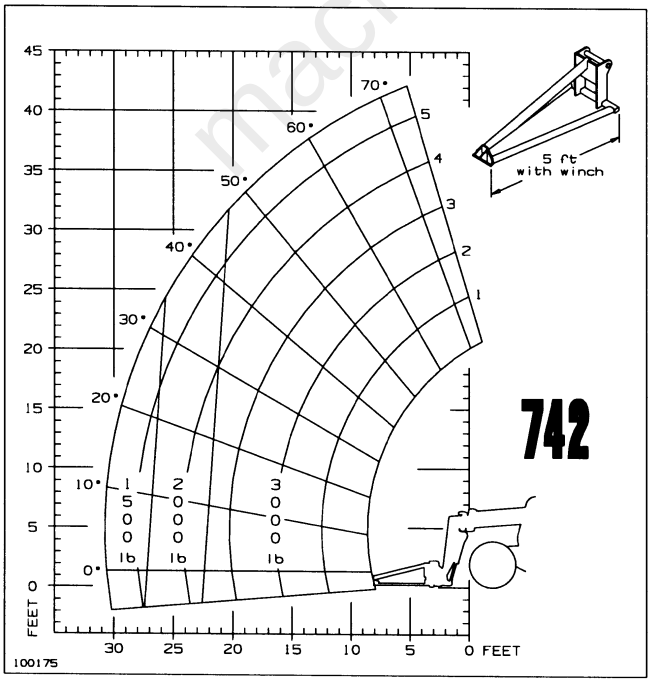
2.5 Cu.-Yd. Bucket - Decal 100173



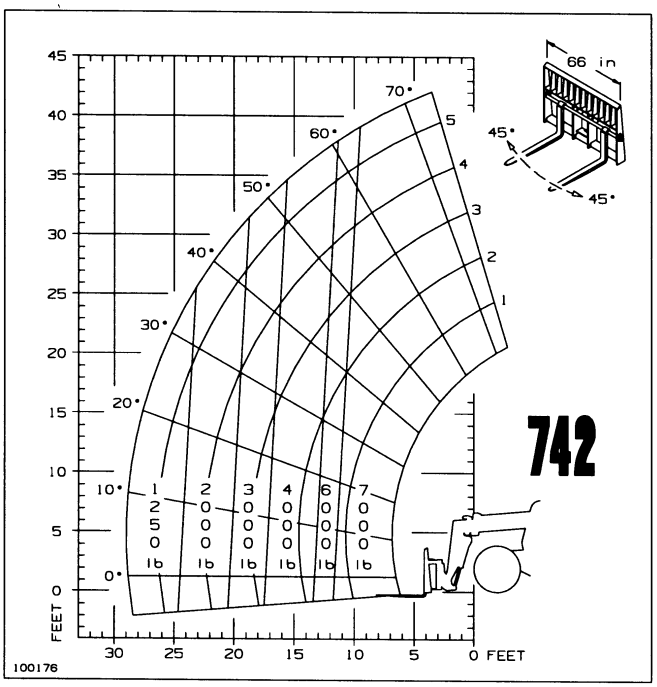
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742 High Boom Load Zone Charts

Winch - Decal 100175

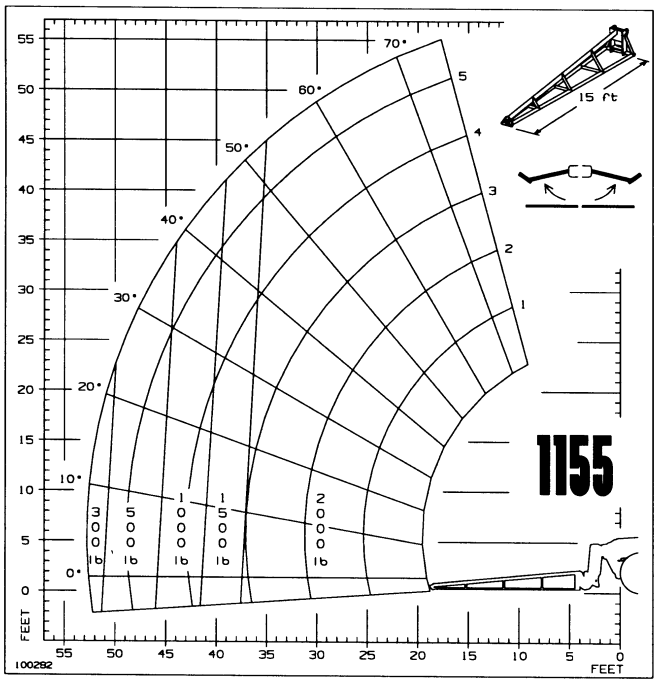


Swing Carriage - Decal 100176

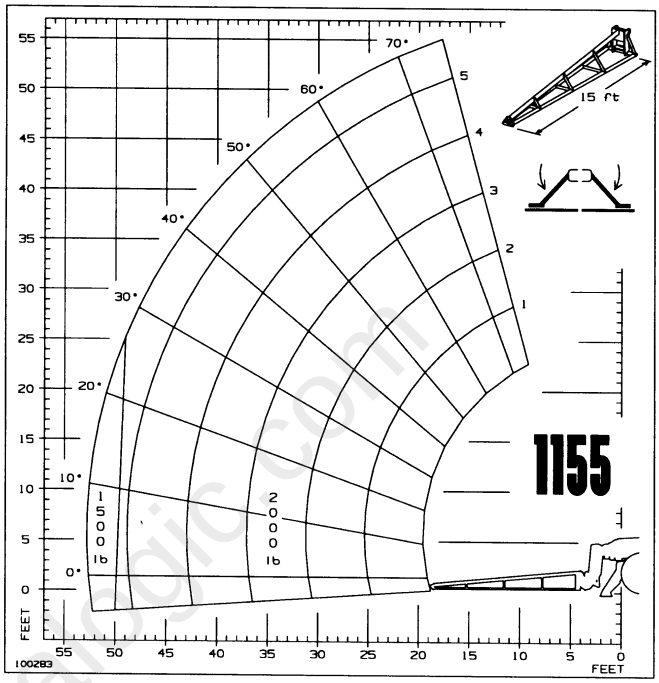


1155 Low Boom Load Zone Charts

15-Ft. Truss Boom - Decal 100282
Outriggers Up

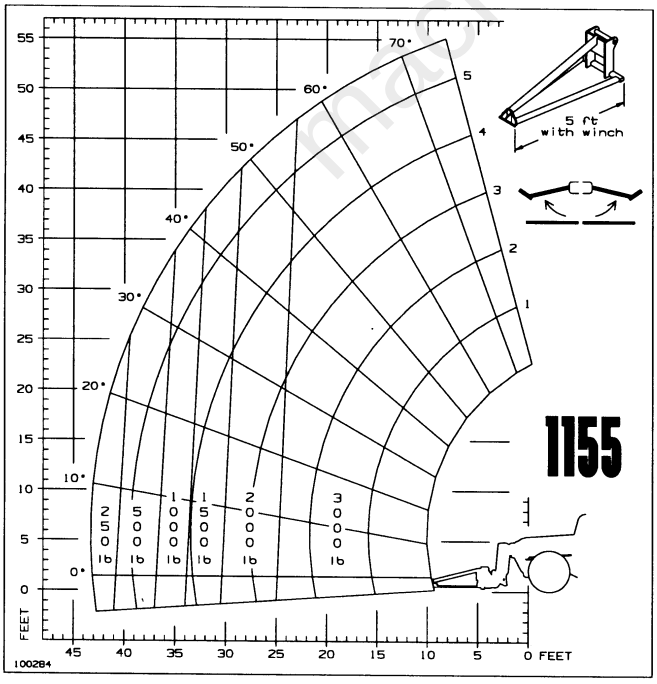


15-Ft. Truss Boom - Decal 100283
Outriggers Down

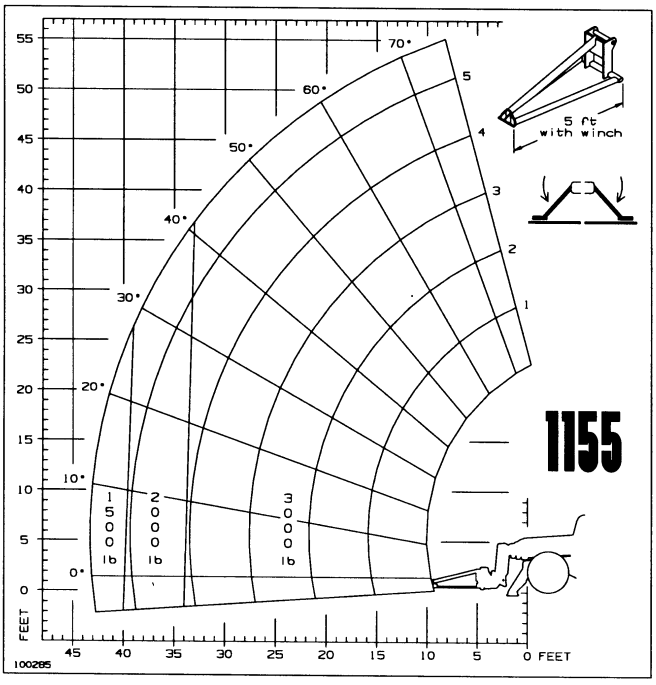


1155 Low Boom Load Zone Charts

Winch - Decal 100284
Outriggers Up



Winch - Decal 100285
Outriggers Down



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