



OPERATOR'S MANUAL

This manual has been prepared for and is considered part of -

TMS600E

Crane Model Number

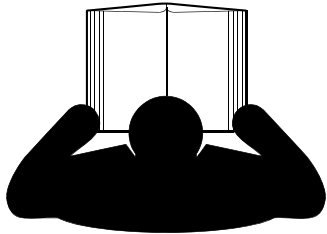
This Manual is divided into the following sections:

SECTION 1	INTRODUCTION
SECTION 2	SAFETY INFORMATION
SECTION 3	OPERATING CONTROLS AND PROCEDURES
SECTION 4	SET-UP AND INSTALLATION
SECTION 5	LUBRICATION
SECTION 6	MAINTENANCE CHECKLIST

NOTICE

The crane serial number is the only method your distributor or the factory has of providing you with correct parts and service information.

The crane serial number is identified on the builder's decal attached to the operator's cab. **Always furnish crane serial number** when ordering parts or communicating service problems with your distributor or the factory.



WARNING

To prevent death or serious injury:

- Avoid unsafe operation and maintenance.
- This crane must be operated and maintained by trained and experienced personnel. Manitowoc is not responsible for qualifying these personnel.
- Do not operate or work on this crane without first reading and understanding Operator's Manual and Rating Plate supplied with crane.
- Store Operator's Manual in holder provided on crane.
- Attach laminated Capacity Charts supplied with crane to chain in operator's cab.
- If Operator's Manual or Capacity Charts are missing from cab, contact your distributor for new ones.

improper maintenance (consult Maintenance-Inspection and Service Manual).

You must ensure that the crane is properly equipped including access steps, covers, doors, guards, and controls.

You must ensure that the outriggers are properly extended and set before performing any lifting operations. On models equipped with outriggers that can be pinned at the mid-extend position, the outriggers must also be pinned when operating from the mid-extend position.

Wear appropriate clothing and personal protective equipment whether or not required by local or job regulations. Be prepared for the work day.

Before entering the cab, you must be **THOROUGHLY** familiar with the planned route of travel and area of operation, including surface conditions and the presence of overhead obstructions and power lines.

Always keep the crane clean, free of dirt, debris, and grease.

Fuel the crane **ONLY** with the engine turned off. Do not smoke while fueling the crane. Do not store flammable materials on the crane or in the operator's cab.

Follow standard safety precautions when refueling. **FUEL IT SAFELY.**

Be familiar with the location and use of the nearest fire extinguisher.

Cold weather requires special starting procedures, use of built-in starting aids, if provided, and ample time for hydraulic oil to warm-up. Keep the crane free of ice and snow.

Working

Never operate the crane when darkness, fog, or other visibility restrictions make operation unsafe. Never operate a crane in thunderstorms or high winds.

Keep unauthorized personnel clear of the working area during operation.

Operate the crane only from the operator's seat. Do not reach in a window or door to operate any controls.

Operate the crane slowly and cautiously, looking carefully in the direction of movement.

"Stunt" driving and "horse-play" are strictly prohibited. Never allow anyone to hitch a ride or get on or off a moving crane.

A good practice is to make a "dry run" without a load before making the first lift. Become familiar with all factors peculiar to the job site.

Ensure the wire rope is properly routed on the hook block and boom nose and that all rope guards are in place.

USE ENOUGH PARTS OF LINE FOR ALL LIFTS AND CHECK ALL LINES, SLINGS, AND CHAINS FOR CORRECT ATTACHMENT. To obtain maximum lifting

capacities, the hook block must be set up with enough parts of line. **NO LESS THAN TWO WRAPS** of wire rope should remain on the hoist drum. When slings, ties, hooks, etc., are used, make certain they are correctly positioned and secured before raising or lowering the loads.

Be sure the rigging is adequate before lifting. Use tag lines when possible to position and restrain loads. Personnel using tag lines should be on the ground.

Be sure good rigging practices are being used. Refuse to use any poorly maintained or damaged equipment. Never wrap the hoist cable around a load.

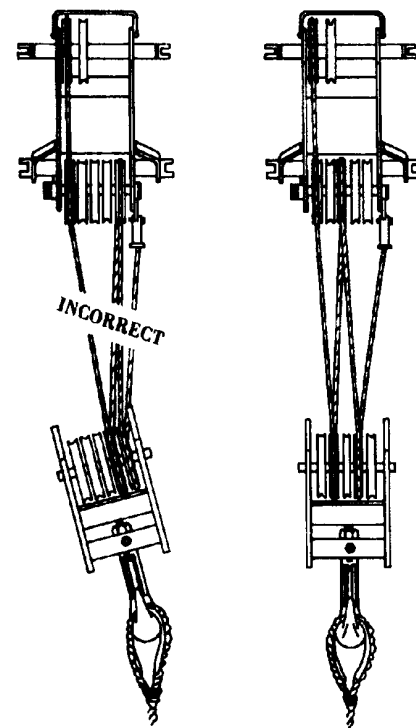
Lifting

Operate the crane at or near governed RPM during all lifting operations.

Check the hoist brake by raising the load a few inches, stopping the hoist and holding the load. Be sure the hoist brake is working correctly before continuing the lift.

When lowering a load always slow down the load's descent before stopping the hoist. Do not attempt to change speeds on multiple-speed hoists while the hoist is in motion.

LIFT ONE LOAD AT A TIME. Do not lift two or more separately rigged loads at one time, even if the loads are within the crane's rated capacity.



Never leave the crane with a load suspended. Should it become necessary to leave the crane, lower the load to the ground and stop the engine before leaving the cab.

Procedure if the Permissible Wind Speed is Exceeded. 4-29

Troubleshooting 4-30

Monthly Maintenance Work 4-30

Removable Counterweights 4-31

Installing The Counterweights 4-31

machinecatalogic.com

36. Boom Pivot Shaft

Lube Type - EP-MPG

Lube Interval - 250 hours or 3 months, whichever interval occurs first

Lube Amount - Until grease extrudes

Application - 2 grease fittings, one on each side

37. Upper Wear Pads, Inner Mid

Lube Type - EP-MPG

Lube Interval - 500 hours or 6 months, whichever interval occurs first. Lubricate more frequently if environmental conditions and/or operating conditions necessitate.

Lube Amount - Thoroughly coat wear pads.

Application - 2 grease fittings; extend boom for access through hole in top of base section

38. Upper Wear Pads, Outer Mid

Lube Type - EP-MPG

Lube Interval - 500 hours or 6 months, whichever interval occurs first. Lubricate more frequently if environmental conditions and/or operating conditions necessitate.

Lube Amount - Thoroughly coat wear pads.

Application - 2 grease fittings; extend boom for access through hole in top of inner mid section

39. Upper Wear Pads, Fly

Lube Type - EP-MPG

Lube Interval - 500 hours or 6 months, whichever interval occurs first. Lubricate more frequently if environmental conditions and/or operating conditions necessitate.

Lube Amount - Thoroughly coat wear pads.

Application - 2 grease fittings; extend boom for access through hole in top of outer mid section

40. Telescopic Slide Faces

Lube Type - EP-MPG

Lube Interval - 500 hours or 6 months, whichever interval occurs first. Lubricate more frequently if environmental conditions and/or operating conditions necessitate.

Lube Amount - Thoroughly spread grease on bottom plates, on top plates, and side plates of boom in areas that wear pads move on.

Application - By brush; 6 places.

41. Telescope 3 Lock Pin

Lube Type - SOG

Lube Interval - 250 hours or 3 months, whichever interval occurs first. Lubricate more frequently if environmental conditions and/or operating conditions necessitate.

Lube Amount - thoroughly coat pin.

Application - Spray on; 2 pins.

42. Telescope 2 Lock Pin

Lube Type - SOG

Lube Interval - 250 hours or 3 months, whichever interval occurs first. Lubricate more frequently if environmental conditions and/or operating conditions necessitate.

Lube Amount - thoroughly coat pin.

Application - Spray on; 2 pins.

43. Telescope 1 Lock Pin

Lube Type - SOG

Lube Interval - 250 hours or 3 months, whichever interval occurs first. Lubricate more frequently if environmental conditions and/or operating conditions necessitate.

Lube Amount - thoroughly coat pin.

Application - Spray on; 2 pins.

44. Upper Boom Nose Sheave

Lube Type - EP-MPG

Lube Interval - 250 hours or 3 months, whichever occurs first

Lube Amount - Until grease extrudes

Application - 1 grease fitting per sheave

45. Lower Boom Nose Sheave

Lube Type - EP-MPG

Lube Interval - 250 hours or 3 months, whichever occurs first

Lube Amount - Until grease extrudes

Application - 1 grease fitting per sheave

46. Boom Extension Sheave

Lube Type - EP-MPG

Lube Interval - 250 hours or 3 months, whichever occurs first

Lube Amount - Until grease extrudes

Application - 1 grease fitting

Full Version Available

Grove TMS600E Truck Crane Operator Manual

Grove TMS600E truck crane operator manual covering controls, safe operation, setup and daily checks. 132-page English PDF. Instant PDF download.

VIEW THE FULL MANUAL

<https://machinecatalogic.com/grove-tms600e-truck-crane-operator-manual/>

Book No: CTRL187-01 · File Pages: 132 · File Count: 1 · File Language: English