

Operation and Maintenance Manual

Rough Terrain Crane

Model **GR-800XL-1**

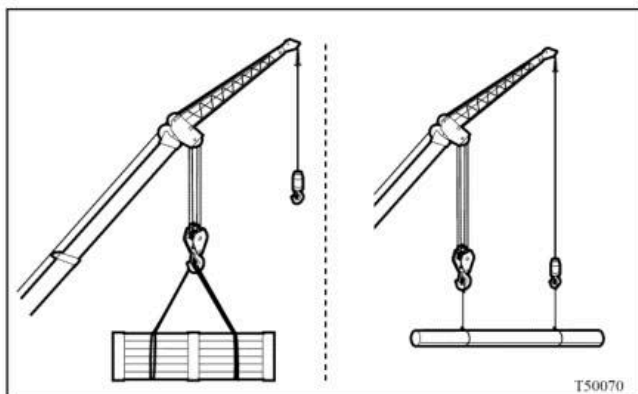
Applicable Serial No. 546196 ~

⚠ CAUTION: Read this manual before operating the crane. Save this manual for future reference.

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⚠ Caution while Using the Jib (2)

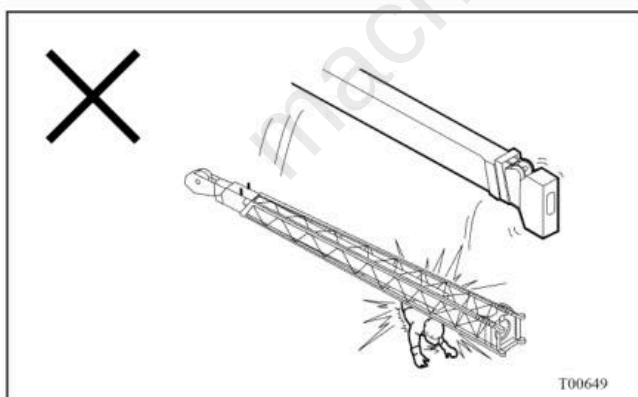
Be sure to avoid the operation of the boom with the jib mounted, and the lifting operation for a single load via the concurrent use of the main winch and the auxiliary winch, as far as practicable. If conditions require such a lift, observe the instructions given in the "AML" section of the manual and perform the operation with the utmost care and attention.



⚠ Mount and Stow the Jib Correctly

Failure to observe the specified procedures for mounting and stowing the jib can damage the jib, or may cause the jib to drop.

Be sure to mount and stow the jib in the correct manner by referring to the "Jib" section in the manual.



Rules for Operation (Weather)

⚠ Stop Operation When Visibility Becomes Poor

During bad weather such as rain, snow or fog, stop operation and stow the machine. Wait until visibility improves before resuming operation.

⚠ Stop Operation When Strong Winds are Present

Under strong winds, a lifted load will start swaying, posing a danger to working personnel and nearby structures and also possibly damaging the boom or overturning the machine.

The influence of cross wind on machine stability is directly proportional to length of the boom and size of the load.

When the maximum instantaneous (i.e. gust) wind speed exceeds 20 mph, stop crane operation and stow the boom.

When the boom is substantially extended or a large-sized load is lifted, stop crane operation even if the wind speed is below 20 mph if there is any possible danger.

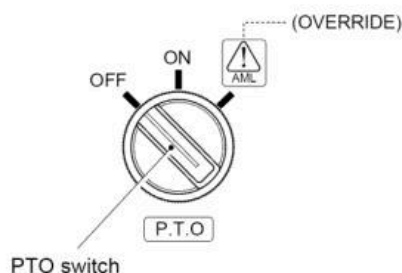
The table below lists wind speed ranges and the ground conditions for each range. Note that the wind speeds in the table are those at a point 30 ft above open level ground.

Wind speed (mph)	Ground conditions
12 - 18	Dust is raised, paper whirls up, and small branches sway.
18 - 24	Shrubs with leaves start swaying. Wave crests are apparent in ponds or swamps.
24 - 31	Tree branches move. Power lines whistle. It is difficult to open an umbrella.
31 - 38	Whole trees sway. It is difficult to walk against the wind.

Operating the PTO and Warming Up the Machine

⚠ WARNING

⚠ Turn the PTO switch to the **VERRIDE** position only in emergency. Do not use this position for normal operation.



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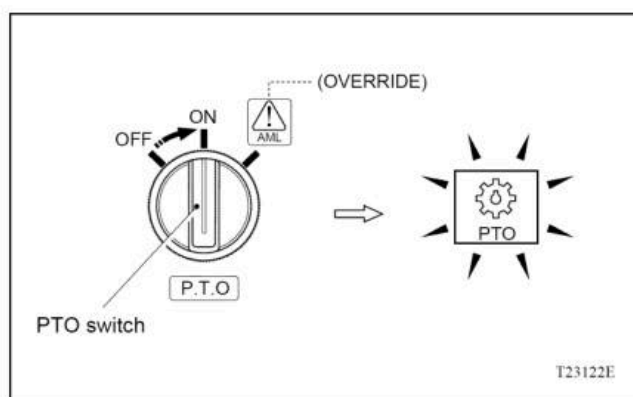
Operating the PTO

When the PTO switch is turned ON, the hydraulic pump for the boom elevating, boom telescoping, and hoisting circuits is driven, and crane operation becomes possible. When the PTO switch is turned OFF, the hydraulic pump stops.

◆ The hydraulic pump for other circuits than the boom elevating, boom telescoping and hoisting is driven all while the engine is running.

Engaging the PTO

1. Make sure that every crane operation lever (hoist, elevation, telescoping, and swing) is in the neutral position.
 2. Start the engine and turn the PTO switch to ON. The PTO lamp will light up and the load moment indicator (AML) will be energized. Also, the suspension will be locked and the suspension lock indicator lamp will light up.
- ◆ Keep the engine at idle when turning the PTO switch to ON.



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Disengaging the PTO

1. Turn the PTO switch to OFF. The PTO lamp will go out and the load moment indicator will be deenergized. Also, the suspension will be unlocked and the suspension lock indicator lamp will go out.
- ◆ After crane operation, turn the PTO switch to OFF to protect the battery.

Preface

This manual is intended as a guide to help you operate and maintain the TADANO crane safely and correctly. This manual covers cranes of the following specification numbers.

Specification No.

(Specification No. of the crane is given on the nameplate as shown below.)

(1) GR-800-1-00211 (2M2D-specification)

Nameplate:

Located on the side of the crane operator's cab.



T200169

Please consult the separate engine manual for operation and maintenance of the engine.

The "TRAVELING" section of this manual describes the basic procedures for driving the vehicle. Read it carefully and become thoroughly familiar with the correct procedures for driving the vehicle.

The "OPERATION" section of this manual describes the basic procedures for operating the crane. Read it carefully and become thoroughly familiar with the correct procedures for operating the crane. Operating skill will improve as you gain knowledge of the crane and its capabilities.

The "INSPECTION AND MAINTENANCE" section covers the procedures for inspecting and servicing the crane. Proper inspection and servicing are essential for minimizing problems and obtaining optimum performance. Follow the instructions in this section to perform inspection and servicing properly.

Note that the illustrations in the manual may differ slightly from your machine. Also, some illustrations show the machine's components with their covers and guards removed to facilitate explanation.

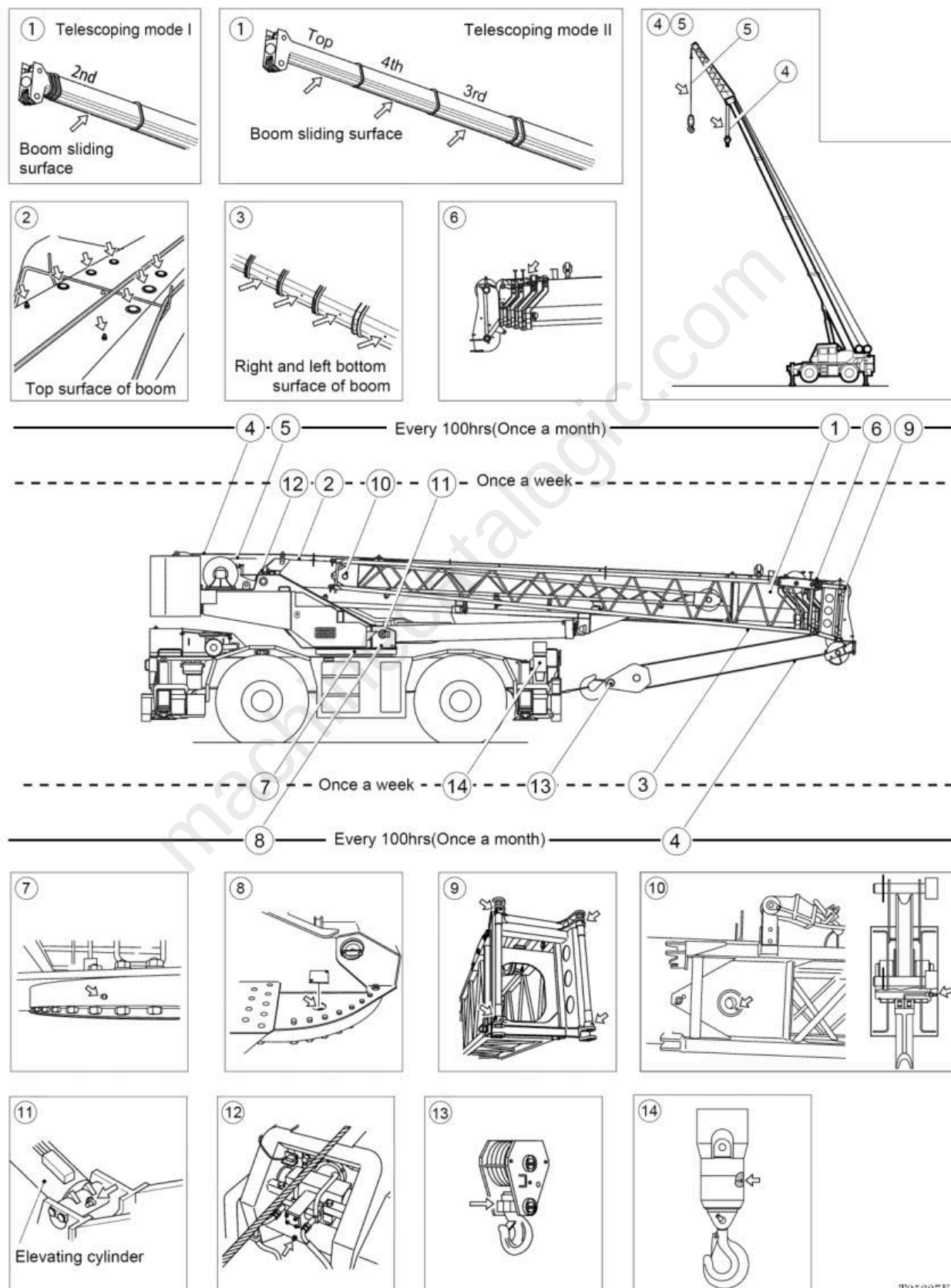
If you transfer the crane, make sure to hand over this manual to the next user together with the crane.

Please note that, for product improvement, some changes may have been incorporated in the machine that are not covered in this manual.

If there are any questions regarding the crane or this manual, contact the nearest TADANO distributor or dealer.

Greasing Chart

Upper Structure



T25627E-2

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