

OPERATOR'S MANUAL

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

600E2 Telescoping Crane

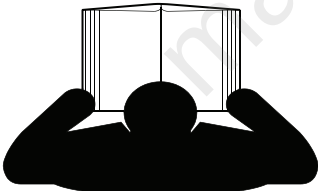
This Manual is divided into the following sections:

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.

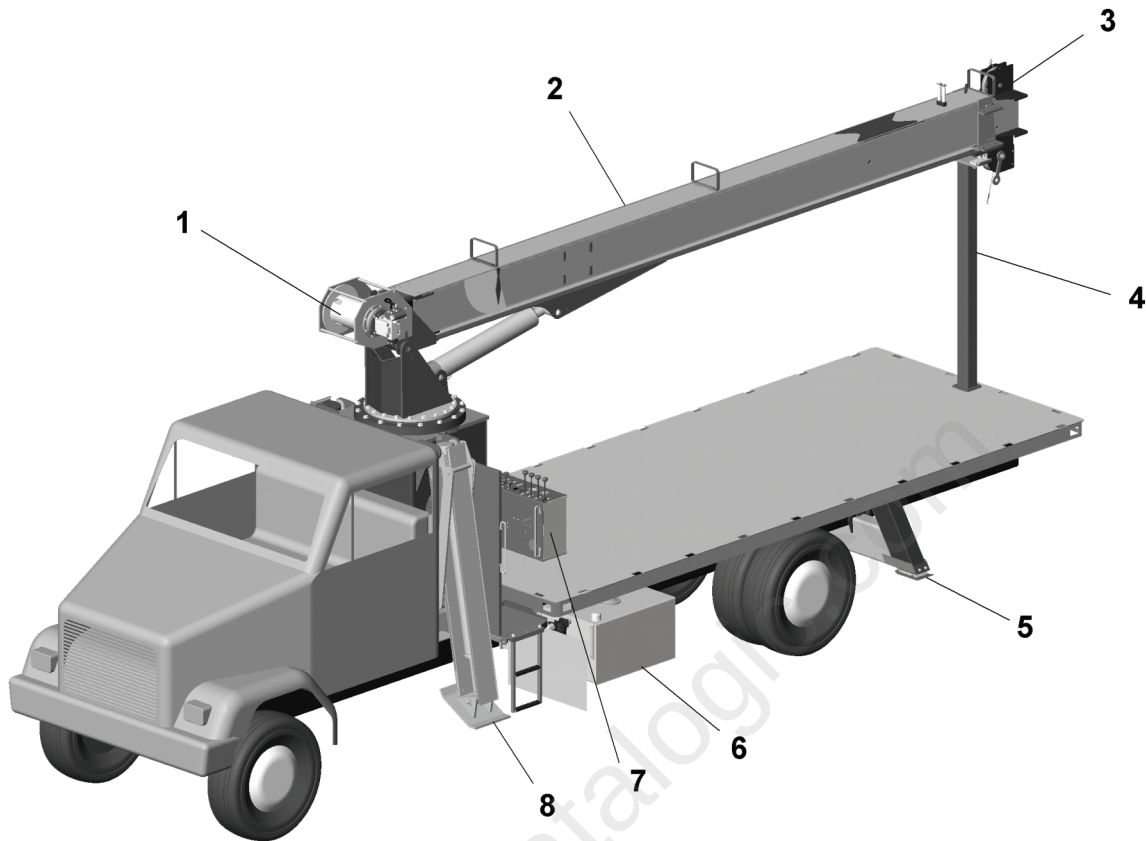
The crane serial number is identified on the builder's decal attached to the crane frame. ***Always furnish crane serial number*** when ordering parts or communicating service problems with your distributor or the factory.



WARNING

To prevent death or serious injury:

- Avoid unsafe operation and maintenance.
- This crane must be operated and maintained by trained and experienced personnel. National Crane is not responsible for qualifying these personnel.
- Do not operate or work on this crane without first reading and understanding Operator's Manual and Load Chart supplied with crane.
- Store Operator's Manual in holder provided on crane.

**600E2 Series Major Components**

Item	Component
1	Winch
2	Boom
3	Sheaves
4	Boom Rest

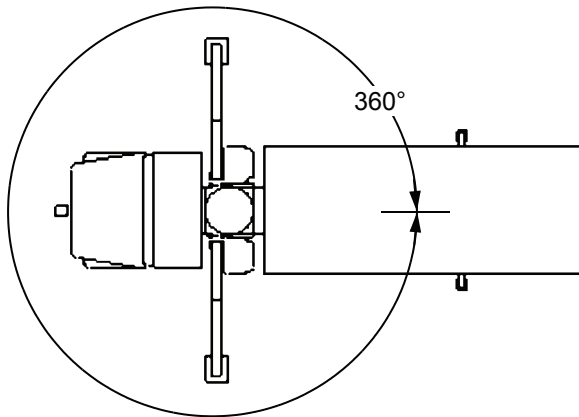
Item	Component
5	Stabilizers
6	Hydraulic Reservoir
7	Control Console
8	Outriggers

NOTICE TO OWNER/USER

Should this crane become involved in a property damage accident, please contact your local National distributor immediately and relate details of incident including serial number of crane. The Dealer will notify National Crane Corporation.

If accident involves personal injury notify your local distributor and immediately contact the National Crane Corporation Manager of Product Safety and Reliability at the contact numbers listed in the front of this Handbook.

Lifting Over the Front with a Front Stabilizer



A front stabilizer is required when loads are to be lifted over the front of the vehicle. Before conducting any boom operations, extend both outriggers until the chassis weight is removed from the wheels. Level the crane side-to-side using the level indicator located at either control station as a reference. Then extend and lower the rear stabilizers to level the crane front-to-back. Again refer to the level indicator to insure that the crane is properly leveled. After the crane is leveled side-to-side and front-to-back, extend the front stabilizer leg(s) until firm contact is made with the ground. Always keep the load as close to the ground as possible.



DANGER

Do not operate outriggers unless they are visible to either the operator or a designated signal person to avoid crushing injury



Check to ensure that the jib, if so equipped, is stowed correctly on the first section boom.

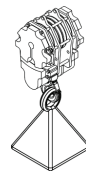
Before Making the Lift

1. Check all controls for proper operation by operating each system through one complete cycle. This is particularly important after the unit has been serviced or repaired. If any abnormal operations are detected, correct the condition before continuing.
2. During all operations, the controls should be metered when beginning or terminating a movement to prevent sudden starting or stopping which imposes undue shock loads on the equipment. This metering can be performed by metering the control lever and the foot throttle.

READING AND UNDERSTANDING THE LOAD CHARTS

The structures and components of your unit are designed to provide satisfactory service if the unit is not loaded in excess of the maximum rated loads specified on the load chart. Overloading can create serious potential safety hazards and can also shorten the service life of your unit. It is important that you know the weight and radius of any load that you are attempting to handle. This should be done by use of a dynamometer and tape measure or by contacting your supervisor.

Overloading a crane can cause many types of failure depending on the configuration and working position of the crane, such as structural damage to almost any part of the crane, winch or cable failure and tipping the unit over.



Block
+
Sling
+
Load

Total Rated
Load

The load chart shows the maximum rated loads including load (weight being lifted), load handling equipment such as slings, buckets, and downhaul weight that can be handled by the crane and the winch. The weight of the load handling equipment and boom attachments must be deducted from the maximum load rating shown on the load chart to determine the payload which can be lifted. Additional reduction may be necessary to make allowance for such factors as the effects of freely swinging loads, wind, ground conditions, out-of-level conditions and operating speeds.

The ratings shown on the outrigger full span load chart are maximum loads and are based on:

- the structural integrity of the crane in shaded areas,
- the stability of the crane in non shaded areas.

The stability or non shaded areas represent a stability tipping factor of 85% (Note: For New York City approved units, the stability or non shaded areas represent a stability tipping factor of 75%) when:

OPTIONS RADIO REMOTE TRANSMITTER



Remote Control Switch Locations

R4 Remote Control Switch Functions

Except for the "TRANSMITTER" and "EMERGENCY" switches, all switches are of the "push and hold" type. The switches must be held in the desired position and are spring loaded to return to the neutral position when released.

When any of the four crane function switches ("TURN", "TELE", "WINCH", "BOOM") are actuated the truck engine will accelerate to maximum preset RPM. After the switch is released the truck engine will return to idle in 10 seconds.

(Refer to the Illustration above for physical Switch locations)

1. TRANSMITTER

- Controls power to the Remote Transmitter.
- Remains in the selected position, either "ON" or "OFF"

2. EMERGENCY

- Stops all crane functions and shuts off the truck engine.
- Momentary contact type switch, push to actuate.

3. ENGINE

- Push up to "START" position and hold to start truck engine, release after engine starts.

- Push down to "OFF" and hold will stop truck engine.

4. BOOM

- Push up to "DN" position and hold to lower the Boom.
- Push down to "UP" position and hold to raise the Boom/

5. WINCH

- Push up to "DN" position and hold for Winch down.
- Push down to "UP" position and hold for Winch up.

6. TELE

- Push up to "EXT" position and hold to extend the Boom.
- Push down to "RET" position and hold to retract the Boom.

7. TURN

- Push up to "LH" position and hold to swing the crane to the left
- Push down to "RH" position and hold to swing the crane to the right.

Full Version Available

National Crane 600E2 Boom Truck Operator Manual

National Crane 600E2 boom truck operator manual covering controls, safe operation, setup and travel prep. Searchable 92-page PDF. Instant PDF download.

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