

OPERATOR'S MANUAL

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

7755/YB7722

Crane Model Number

Crane Serial Number

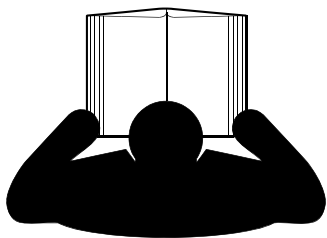
This Manual is divided into the following sections:

SECTION 1	INTRODUCTION
SECTION 2	SAFETY INFORMATION
SECTION 3	OPERATING CONTROLS AND PROCEDURES
SECTION 4	CAPACITY CHART
SECTION 5	ATTACHMENTS
SECTION 6	MAINTENANCE
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SECTION 8	SPECIFICATIONS

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.

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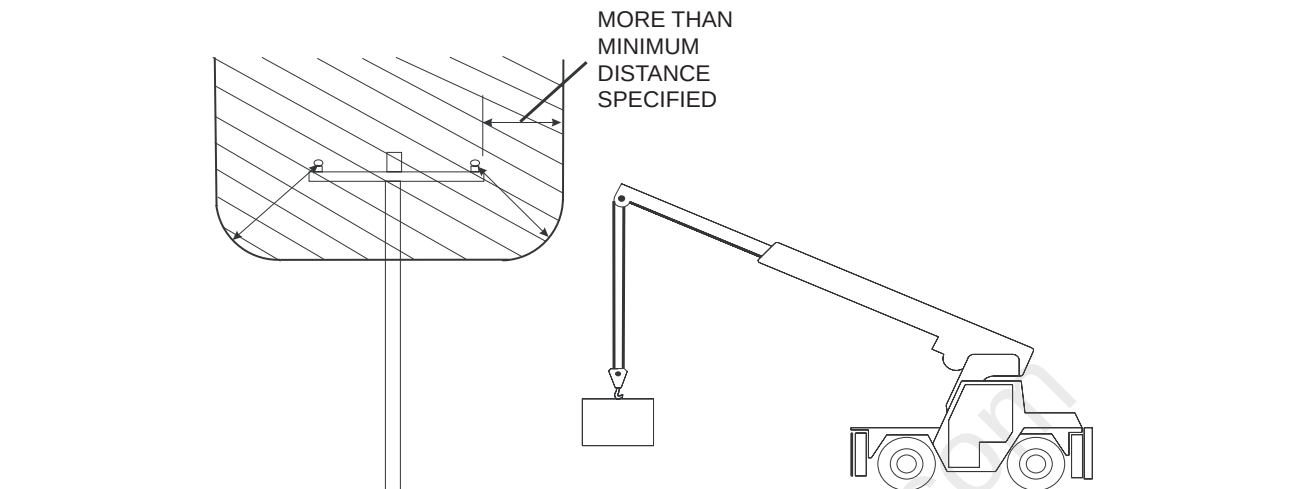
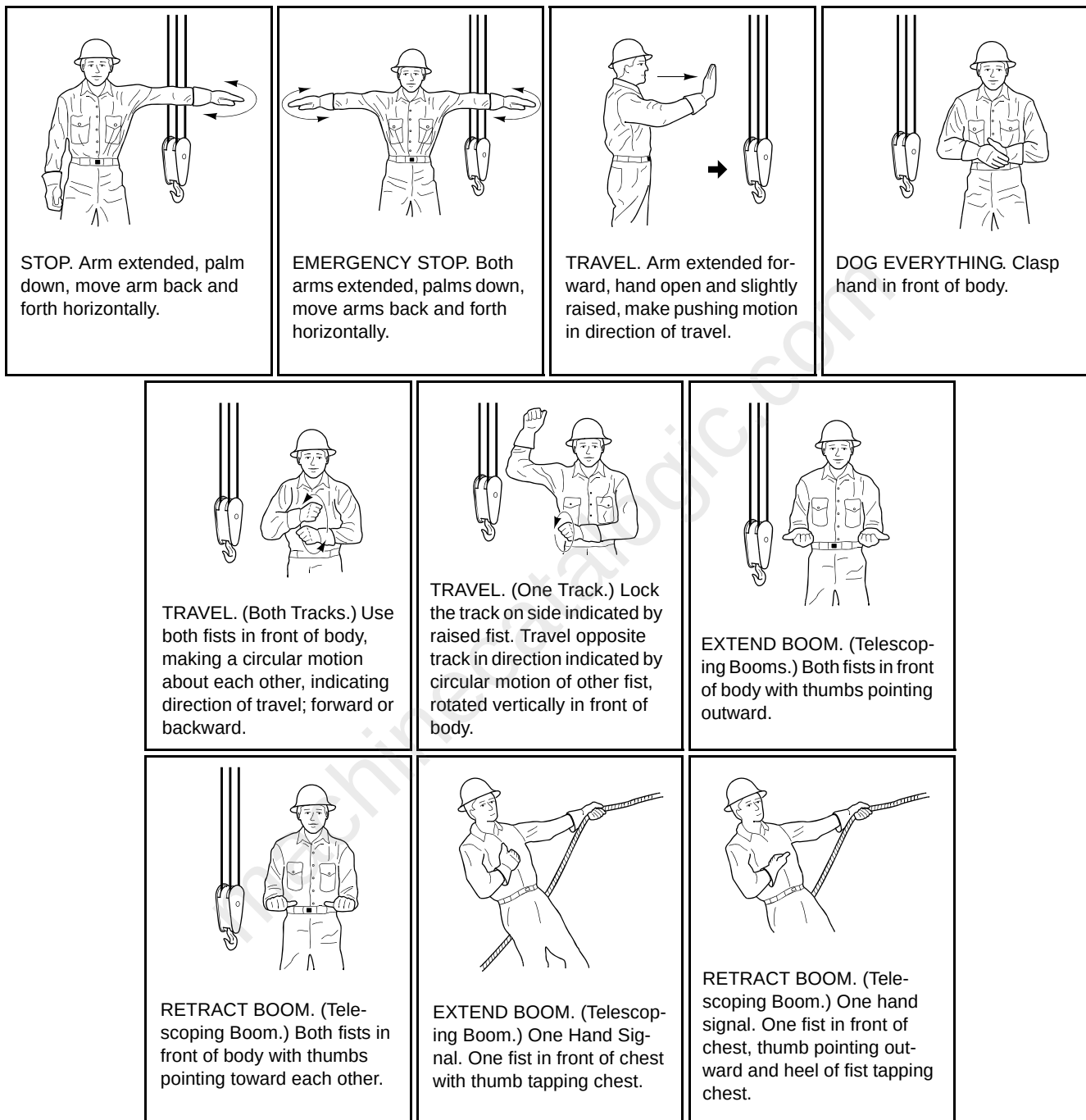


FIGURE 2-16

Table 2-1
Electrical Conductor Clearance Chart

Conductor Voltages	Minimum Vertical Clearance From Conductors	Minimum Lateral Clearance From Conductors	Clearance From Insulation Covered Conductors
50,000 V or less	10' (3.1 m)	10' (3.1 m)	4' (1.3 m)
Over 50,000 V up to and including 345,000 V	10' (3.1 m) plus 0.4" (10.22 mm) for each 1,000 V over 50,000 V	10' (3.1 m) plus 0.4" (10.22 mm) for each 1,000 V over 50,000 V	10' (3.1 m)
Over 345,000 V up to and including 750,000 V			16' (4.9 m)



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Engine Starting Procedures

NOTE: **DO NOT** crank the starter motor continuously for more than 30 seconds. Damage to the starter motor could occur.

NOTE: Check the engine oil pressure gauge immediately after the engine starts. If the oil pressure does not increase to approximately 10 psi (60 kPa), stop the engine and find the cause.

NOTE: **DO NOT** operate the engine at full RPM or apply a full load until the engine is warm. During cold weather, it may be necessary to run the engine at a higher speed to keep the correct operating temperature.

The diesel engine in this crane is not normally equipped with a metering cold starting aid. However, one is available as an option and is recommended when the crane is to be operated in temperatures below 10° F (-29° C).

NOTE: Temperature ranges will vary when using different oil weights.

1. If necessary, apply a starting aid to the engine. See Applying Starting Fluid to the Engine.
2. Depress the accelerator pedal halfway to the floor.
3. Turn the ignition switch to the START position to crank the engine. Release the switch when the engine starts. If the engine fails to start on the first try, wait until the starter motor comes to a complete stop; then again press the accelerator pedal halfway and crank the engine with the ignition key.

Applying Starting Fluid To The Diesel Engine

Applying Fluid Using A Metered Injection-type Starting Aid (Optional)

An ether injection kit is available as an option for injecting pre-measured amounts of ether into the engine's intake manifold, using a switch in the cab.

1. Push down and then release the cold start switch on the instrument panel (see Figure 3-30) to inject a metered amount of fluid into the engine. Turn the ignition switch to the START position to crank the engine.
2. If the engine does not start after the first injection of starting fluid, repeat step 1 until the engine starts.

NOTE: Avoid injecting too much starting fluid into the engine. Too much fluid will cause engine damage by washing lubricant from the cylinder bores.

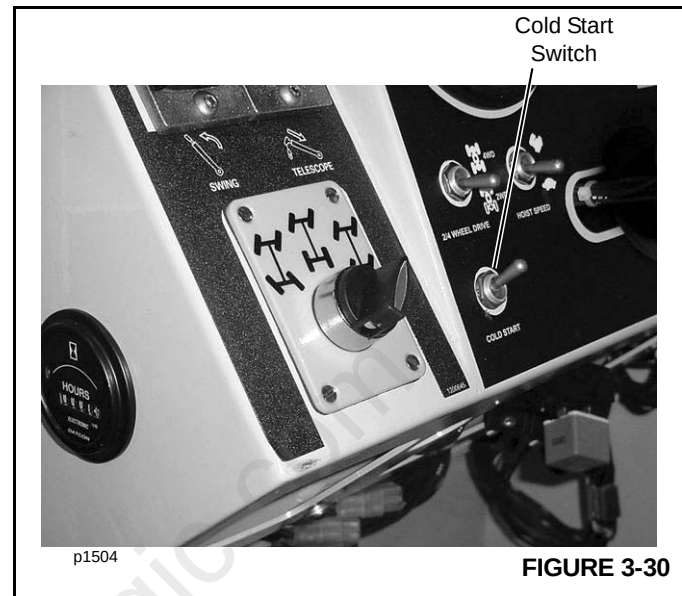


FIGURE 3-30

! WARNING Hazard Table!



Ether is poisonous. Do not store ether cylinders in the operator's compartment. Breathing ether fumes or repeated contact with skin can cause serious personal injury. Use ether only in well ventilated areas.

SECTION 5

ATTACHMENTS

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SECTION 6

MAINTENANCE

INTRODUCTION

CAUTION

Do not use gasoline or other flammable fluids to clean component parts. Fire or explosion may occur causing bodily burns.

CAUTION

Use eye protection when performing service or maintenance tasks. Propelled and/or dropped items can cause eye injury.

CAUTION

If maintenance or adjustments must be performed with the engine running, have a person at the controls while another person performs the work to inhibit accidental movement which could cause injury or death.

Preventive maintenance is necessary to keep the crane in good condition as long as possible. Adjust the maintenance schedule to your operation, according to the type of work, size of loads, temperature conditions and frequency of equipment use.

The intervals in the Maintenance Schedule are for average operating conditions, and must be understood as the **MINIMUM** maintenance necessary for the machine. Decrease these intervals if the machine is operated in conditions that are below average (for example, in dust, in high or low temperatures, with heavy loads or frequent starting and stopping).

Use the hourmeter and a calendar to make sure that all necessary maintenance is done according to the schedule.

NOTE: When performing service on the crane, put a tag on the key switch or remove the key to prevent operation of the crane.

Spark Arresting Mufflers

NOTE: Codes of some states or provinces may require that this crane be equipped with a **SPARK**

ARRESTING MUFFLER. The State of California as an example, is one state which has such regulations for agricultural and forestry applications, plus a regulation for construction applications in forest covered, brush covered, or grass covered lands.

Safety List

Inspect the following safety equipment daily:

SAFETY BELT - Check for frayed or cut webbing, damaged buckles or loose mounting hardware.

SAFETY DECALS - Check condition of decals. Replace if worn, damaged or missing.

COVERS - Keep all protective covers in place.

PARKING BRAKE - Check operation. Have unit repaired if brake is not functioning properly.

ENGINE - Check operation. Remove all dirt or debris, and all flammable materials before running engine.

LUBRICANTS

It is not the policy of Manitowoc Cranes, Inc. to publish lists of approved lubricants or guarantee lubricant performance. The responsibility for the quality rests completely with the distributor or manufacturer of the lubricant. It is not the policy of Manitowoc Cranes, Inc. to publish lists of approved lubricants or guarantee lubricant performance. The responsibility for the quality rests completely with the distributor or manufacturer of the lubricant.

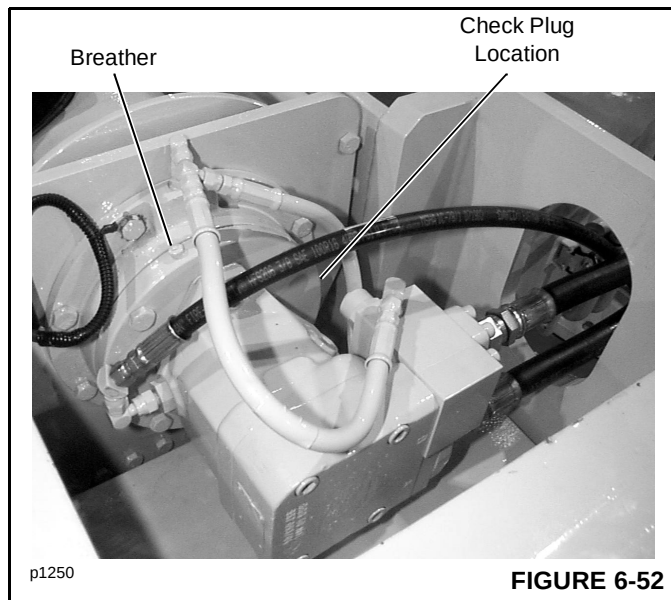
In various paragraphs in this maintenance section, statements may be found, "use (lubricant brand name) or equivalent." This statement does not constitute an unconditional guarantee of performance of the brand of lubricant mentioned. It is intended only as a guide to the type of lubricant recommended for a given application.

MAINTENANCE RECORDS

Dated records must be kept for inspection of critical components such as, brakes, crane hooks, wire ropes, hydraulic cylinders and relief valve pressure settings. These records must be kept where they can be easily obtained and reviewed.

Winch Brake

1. Clean around the brake breather (Figure 6-52). Remove the breather and clean it in a suitable solvent.



2. Place a suitable container under the brake drain plug. Clean around the drain plug and remove it. Allow the oil to drain into the container.
3. Install the drain plug.

**DANGER**

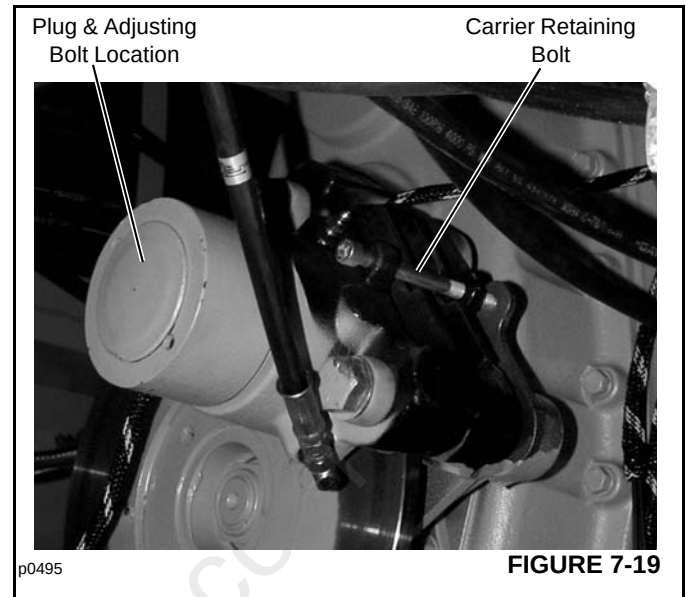
Do not use EP type gear lube in the brake section of this winch. EP gear lube may prevent the clutch from locking up, causing the load to fall which could result in property damage, personal injury or death.

4. Fill the brake through the breather hole with recommended fluid until the oil is level with bottom of the check plug hole.
5. Install the breather and check plug.

PARKING BRAKE ADJUSTMENT

NOTE: It is necessary to climb under the crane to adjust the parking brake. Be sure engine is shut off, the ignition key is removed and chock blocks are in place before climbing under the crane.

1. With the engine running and the parking brake released, remove the plug from the end of the brake housing (Figure 7-19).
2. Using the screw in the opened hole, adjust the set running clearance of the brake pads to 0.020" - 0.030" (0.5 mm - 0.76 mm).
3. Install the plug.
4. Even up the running clearance on each side of the disc by adjusting the carrier retaining bolt (Figure 7-19).



Full Version Available

Grove 7755 and YB7722 Rough Terrain Crane Operator Manual

Grove 7755, YB7722 rough terrain crane operator manual covering controls, safe operation, setup and daily checks. Instant PDF download.

VIEW THE FULL MANUAL

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Book No: CTRL084-01 · File Pages: 130 · File Count: 1 · File Language: English