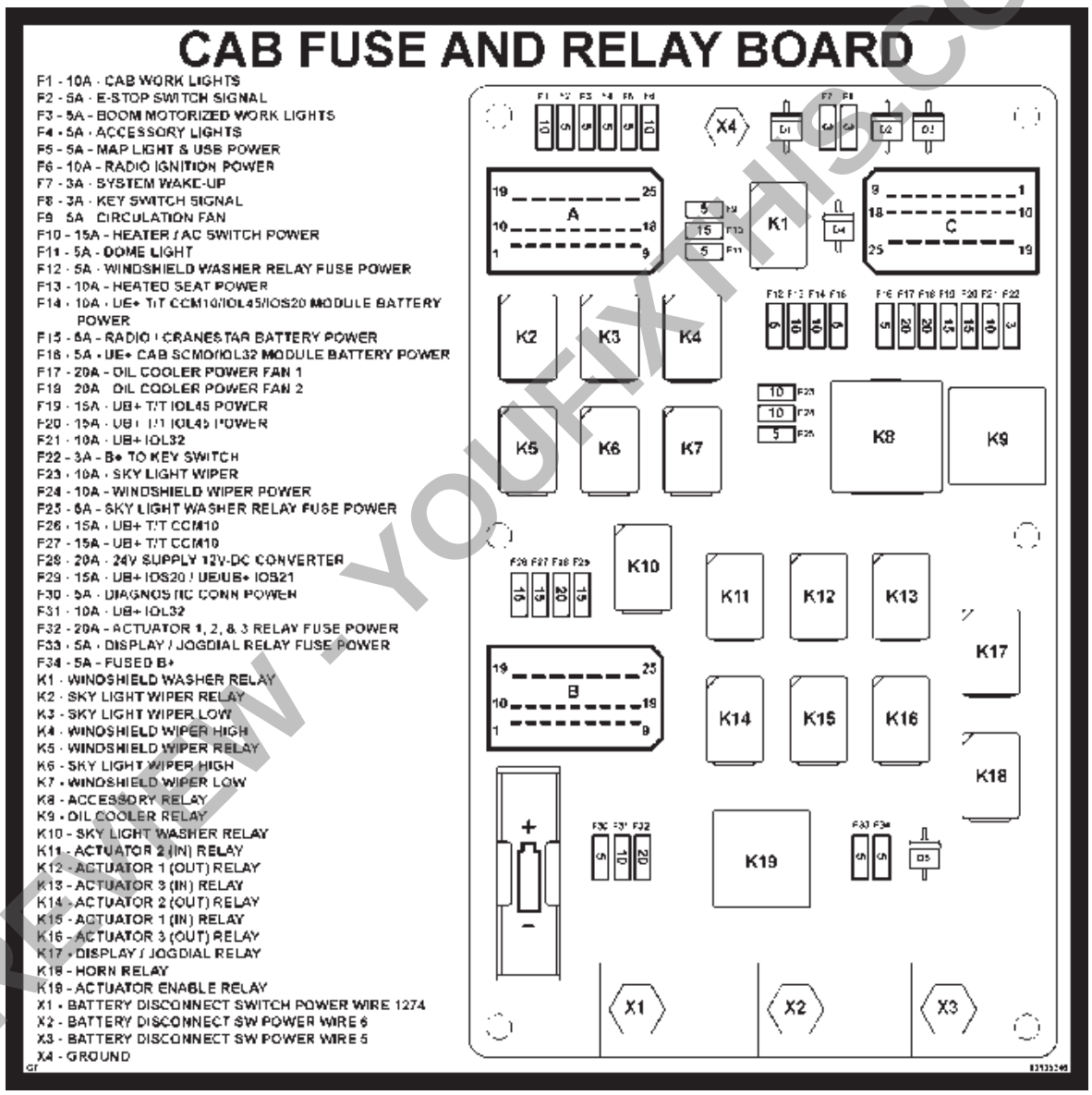
Fuse and Relay Panel – Cab

The Fuse and Relay Panel (7, Figure 3-30) is located behind the operator seat in the right side upper compartment (as seated in the operator seat).

The cab fuse and relay panel contains the fuses and relays listed in Figure 3-31.

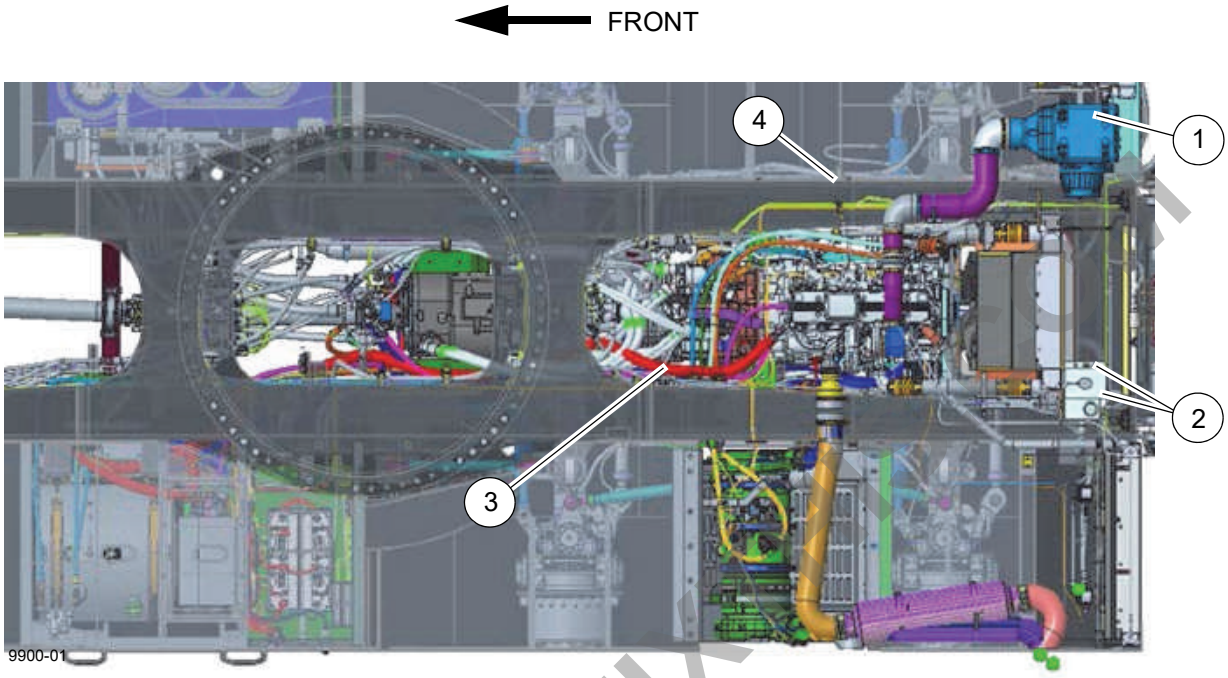


9904

FIGURE 3-31

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com



TOP VIEW OF CARRIER

FIGURE 6-1

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PRE-STARTING CHECKS

A complete walk-around visual inspection of the crane should always be made with special attention to structural damage, loose equipment, leaks, or other conditions that would require immediate correction for safe operation.

The following items are suggested to be checked to make sure the crane is prepared for starting the day's work.

Fuel Supply

Fill fuel tank and make sure cap is on tight.

Engine Oil

CAUTION

Do not overfill.

Check oil level in the crankcase and make sure it is within the ADD and FULL marks on the dipstick. Do not overfill.

Engine Coolant

DANGER

Do not loosen radiator cap while engine and radiator are hot. Steam or hot coolant will cause severe burns.

Check surge tank coolant level sight gauge and fill to the proper level. Do not overfill. Make sure surge tank cap is secure.

Batteries

Check battery cables and clamps are tight and not corroded.

Hydraulic Reservoir and Filter

Check hydraulic level sight gauge and filter condition indicator on the hydraulic tank. Hydraulic fluid should be at normal operating temperature, with boom and outriggers in a retracted position, and boom level.

Check breather for cleanliness and make sure it is secure.

Hoist Rope

Inspect hoist rope in accordance with applicable Federal Regulations. Sheaves, guards, guides, drums, flanges, and any other surfaces that come in contact with the rope should be inspected for any condition that could cause possible damage to the rope.

Hook Block and Overhaul Ball

Inspect for nicks, gouges, cracks, and evidence of any other damage. Replace a hook that has cracks or shows evidence of excessive deformation of the hook opening (including twist). Be sure safety latch is free and aligned.

Seats and Mirrors

Adjust seat and mirrors for clear vision and safe driving.

Seat Belts

Seat Belt Maintenance

Seat belt assemblies are maintenance-free, however, they should be periodically inspected to make sure they are not damaged and are in proper operating condition, especially if they have been subjected to severe stress.

Cleaning Seat Belt Webbing

Wash seat belt webbing with mild soap or detergent. Do not use commercial solvents. Bleaching or re-dyeing the webbing is not recommended because of possible loss of webbing strength.

Floor Mat

Make sure floor mat is correctly in place and does not interfere with the operation of the foot pedals.

Signal and Running Lights

Check all signal and running lights for proper operation. Replace lights that are not working with those of the same number, or equivalent.

Service and Parking Brakes

Check for proper operation.

Tires

Check for severe cuts, foreign objects embedded in treads, and for correct inflation pressures. A tire inflation chart, providing the correct air pressures, is located in the *Load Chart Manual* in the crane cab.

Wheels

Maintain proper torque on wheel lugs and check for proper wheel mounting. If equipped with steel or aluminum wheels, re-torque wheels 300 hours after initial installation or any time tires and wheels are removed. Doing this re-seats the lug nuts. Check lug nuts for proper torque every 500 hours thereafter.

Axle Oscillation Lock Outs Operation

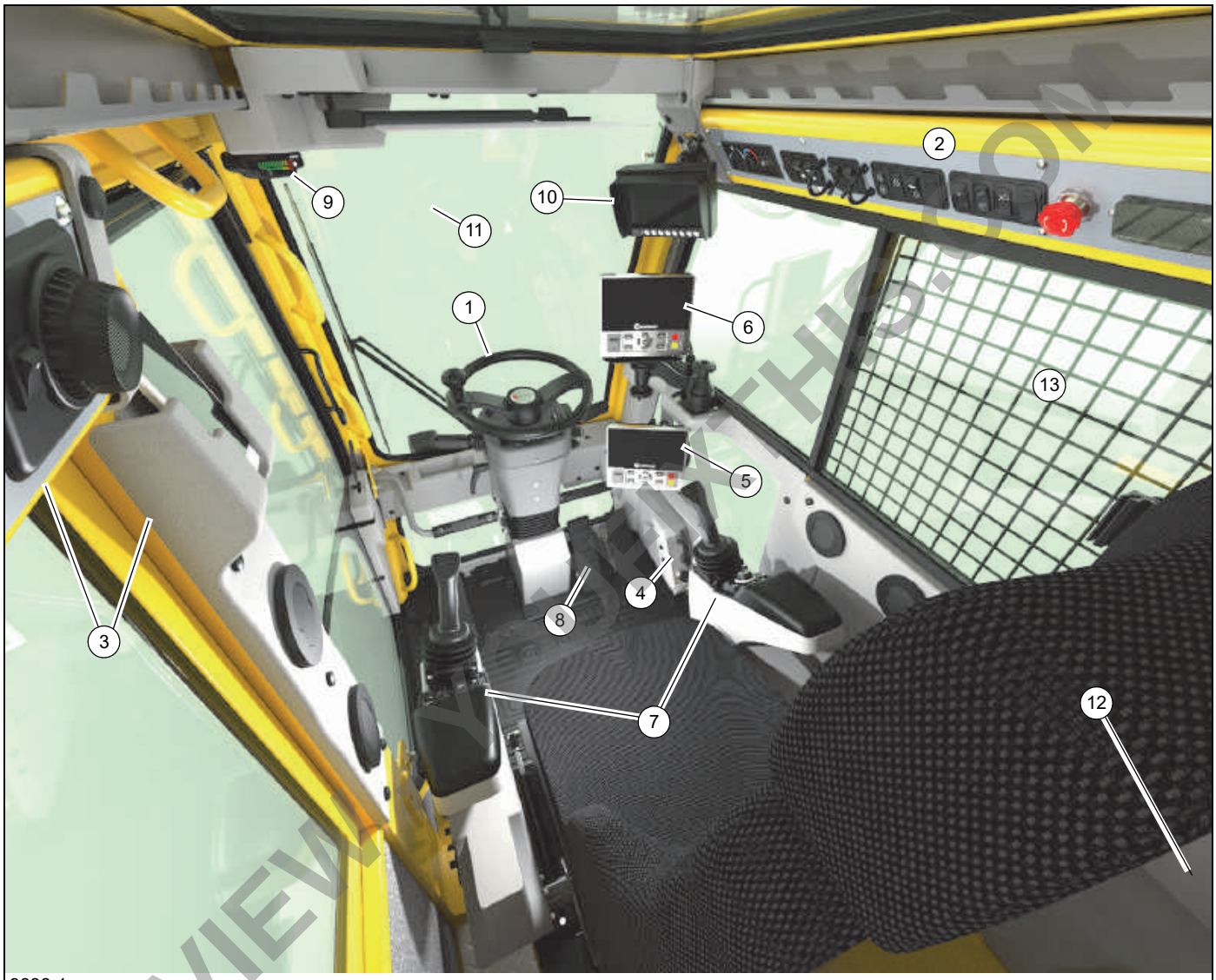
The following procedure should be used to periodically check the axle oscillation system and make sure it is in proper working condition.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

OPERATOR CAB OVERVIEW

Most of the controls and indicators that are used to operate and monitor crane functions are found inside the operator cab (Figure 3-1).



9838-1

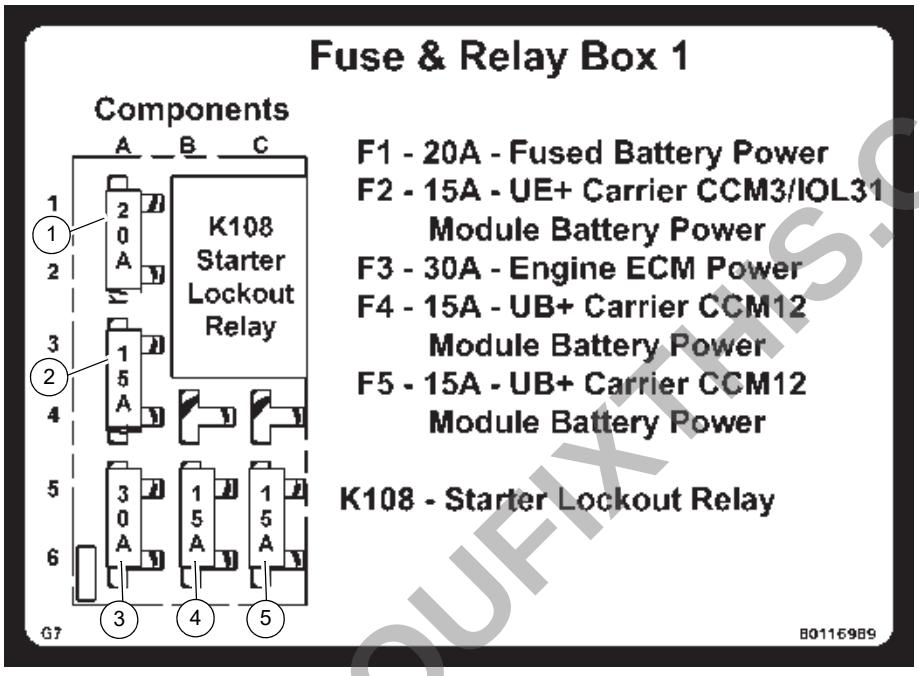
Item	Description	Page	Item	Description	Page
1	Steering Wheel and Column	3-4	8	Foot Pedal Controls	3-35
2	Right Overhead Control Panel	3-10	9	Internal RCL Light Bar	3-37
3	Left Overhead and Side Panel	3-16	10	3-View Camera Display	3-38
4	Right Lower Control Panel	3-18	11	Front Cab – Controls and Features	3-39
5	Operator Display Module	3-20	12	Rear Cab – Controls and Features	3-41
6	Rated Capacity Limiter Display Module	3-20	13	Right Window and Skylight Window	3-45
7	Operator Seat and Armrest Controls	3-24			

FIGURE 3-1

PREVIEW ONLY
Download full manual at youfixthis.com

Fuse and Relay Box #1 – Carrier

The Fuse and Relay Box #1 is located on the left side of the carrier in the battery box and includes fuses and the relay listed in Figure 3-40.



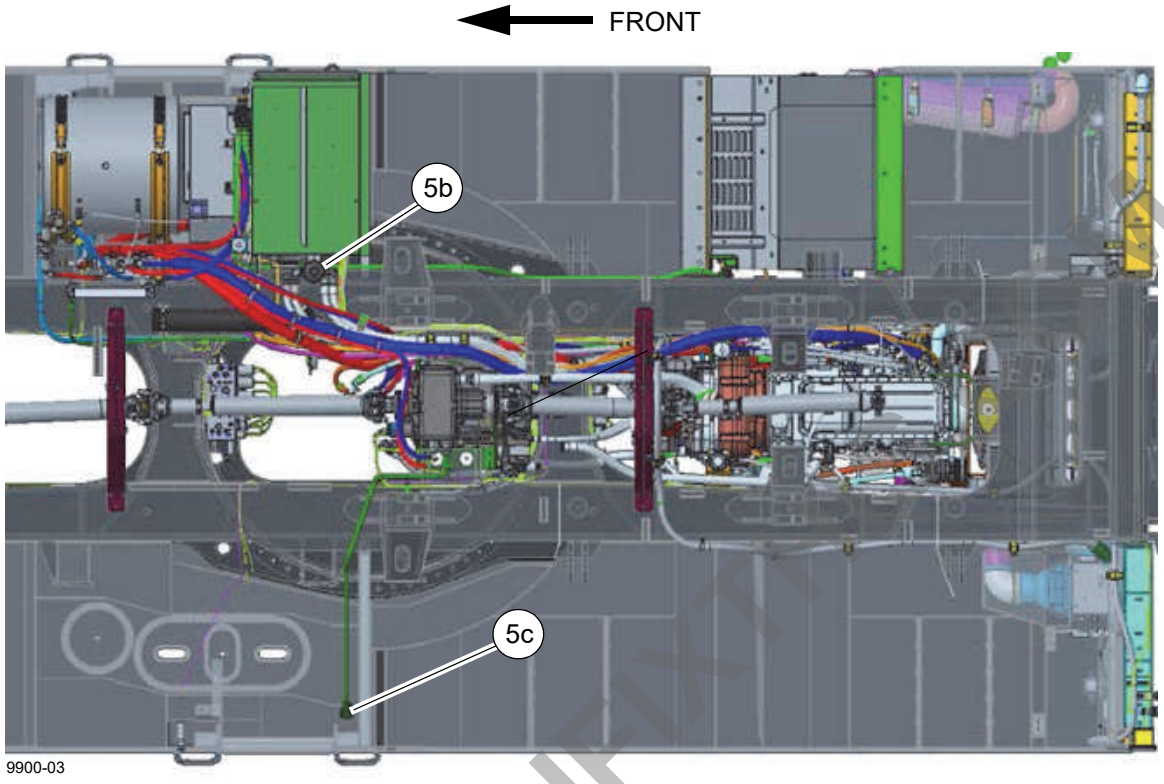
9861-1

Item	Description
1	Fuse F1
2	Fuse F2
3	Fuse F3
4	Fuse F4
5	Fuse F5

FIGURE 3-40

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com



BOTTOM VIEW OF CARRIER

FIGURE 6-3

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

1. Make sure tires are inflated to recommended pressure. Refer to *Load Chart Manual* in the crane cab for proper inflation pressures.
2. Program the RCL with a travel rigging code based on the configuration of the crane:
   - 9816 – On Rubber, Boom Centered Over Front, without Counterweight
   - 9014 – On Rubber, Boom Centered Over Rear, with Standard Counterweight
   - 9016 – On Rubber, Boom Centered Over Front, with Standard Counterweight
3. Set the suspension to the Ride Height level (refer to *Suspension Raise/Lower*, page 4-107).
4. Center the rear wheels.
5. With hook unloaded, boom fully retracted and centered over the front or rear at no more than a 10° to 15° boom angle, position the two left or right side rear tires on blocks so that the rear tires are approximately 15 to 30 cm (6 to 12 in) above the level of the opposite tires.
6. Slowly swing the superstructure at least 2° to left or right of center to activate the axle oscillation lock out valve. Refer to the Suspension Control Indicator (5, Figure 4-78) to confirm the suspension is locked. Do not swing beyond tire track.
7. Slowly drive off of blocks and stop. Rear tires should be touching the road surface and the opposite front tire should be light or slightly off road surface.
8. Swing superstructure until it is centered over the crane again. If axle oscillation lock out valve is functioning properly, crane will re-level itself; if valve is not working properly, crane will not re-level itself.

DANGER

Tipping Hazard!

Do not operate crane if axle oscillation lock out system is not functioning properly.

Failure to comply with this warning may result in death or serious injury.

If rear axles do not lock or unlock properly, do not operate the crane until the lock out system has been evaluated and repaired as necessary.

Safety Equipment

Check all lights, windshield wipers, washers, washer liquid supply, horn, instruments, signaling devices, etc.

Daily Lubrication

Make sure all components requiring daily lubrication have been serviced. Refer to *Maintenance and Lubrication*, page 6-1.

Boom

Before extending boom, make sure access covers on top of boom base section and on face of boom nose are installed.

Air Intake Restriction Monitoring (AIRM) Communications System

The engine includes the Cummins AIRM Communications System. This system calculates real-time air filter restriction at operational flow rate using the temperature and pressure input from the TBAP sensor, which is included on the Direct Flow air cleaner.

When the air filter becomes dirty and should be replaced, a maintenance fault is generated and the Engine Warning Indicator in the Alerts Area (1, Figure 4-74) of the Operator Display Module (ODM) flashes for a period of time at every key on. Replace the air filter at the next maintenance interval.

If the air filter becomes more dirty, a severe warning fault is generated and the Engine Warning Indicator comes on (constant). A progressive engine derate will occur to protect the engine from damage.

The generated fault codes can be viewed on the Operator Display Module (ODM) (refer to *Engine Faults*, page 4-145).

COLD WEATHER OPERATION

The following recommendations are for operating Grove cranes in regions with ambient temperatures below -9°C (15°F) which are considered arctic.

NOTE: Additional information regarding engine cold weather operation is available through your Cummins dealer/service center under Service Bulletin 3379009.

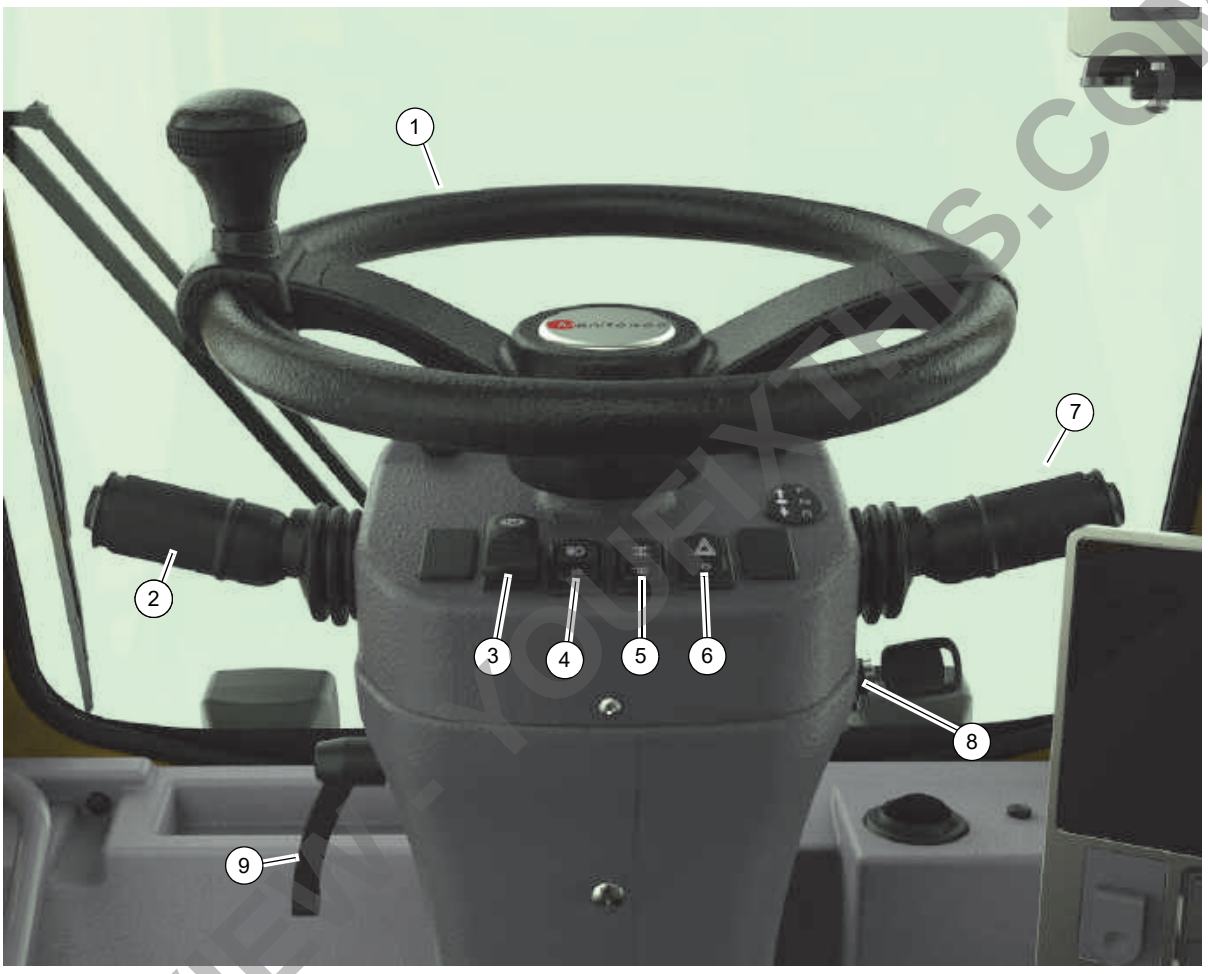
Use particular care to make sure cranes operated in very cold temperatures are operated and maintained in accordance with procedures provided by Grove. Always make sure there is adequate lubrication during system warm-up. Regardless of crane lubricant viscosity, always follow cold weather warm-up procedures described in the section *Crane Warm-up Procedures*, page 4-11. For proper cold weather lubricants, refer to the section *Arctic Lubricants and Conditions, page 6-5*.

If in doubt of suitability for a specific fluid or lubricant, check with an authorized Grove distributor or Manitowoc Crane Care. Cranes should have appropriate hydraulic oil, lubricants, and other auxiliary items required for operation in arctic temperatures.

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

STEERING WHEEL AND COLUMN

The steering wheel and column assembly is a pedestal style tilt and telescoping steering column. It can tilt rearward 30° or telescope 60 mm (2.3 in). The steering column includes the ignition switch, as well as levers, and switches for driving the crane (Figure 3-2).



9838-6

Item	Description	Page
1	Steering Wheel	3-5
2	Turn Signal Lever and Horn Controls	3-6
3	Parking Brake Switch	3-7
4	Headlights Switch	3-7
5	Drive Axle Selector Switch	3-7
6	Hazard Lights Switch	3-8
7	Transmission Shift Lever	3-8
8	Ignition Switch	3-8
9	Steering Column Tilt and Telescope Lock Lever	3-9

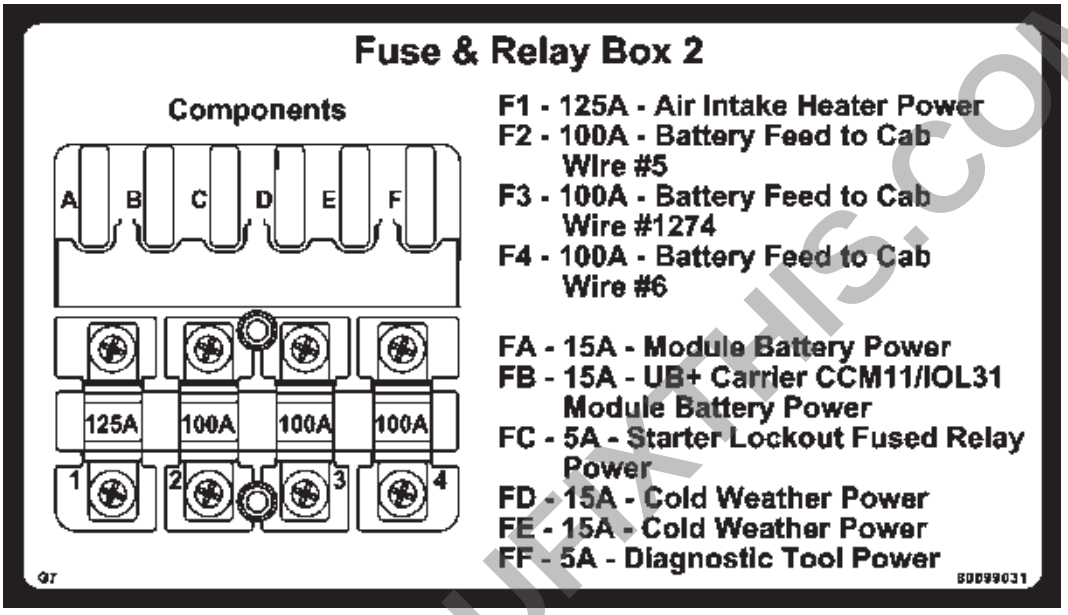
FIGURE 3-2

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Fuse Box #2 – Carrier

The Fuse Box #2 is located on the left side of the carrier in the battery box and includes fuses listed in Figure 3-41.

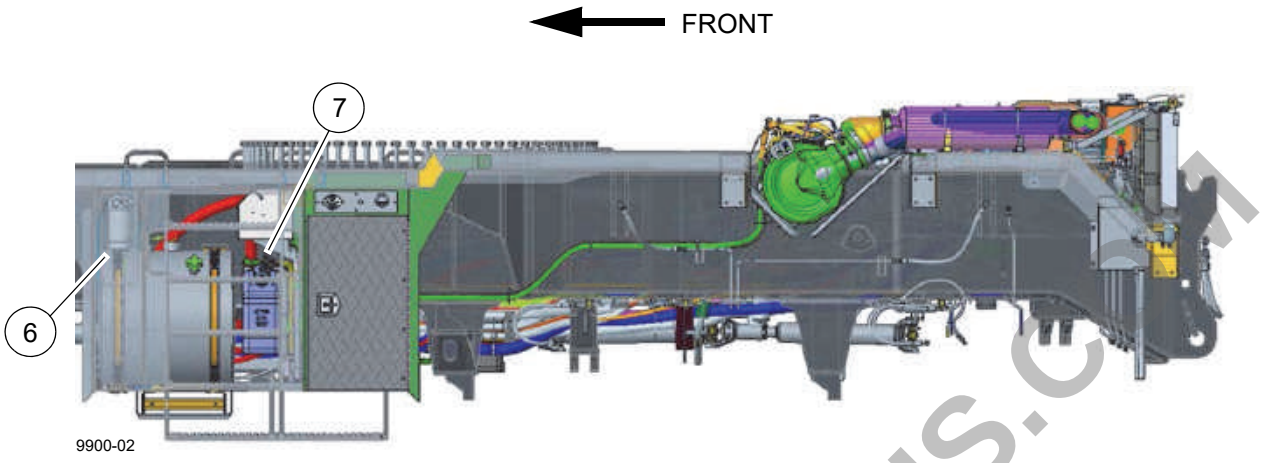


9861-2

FIGURE 3-41

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com



SIDE VIEW OF CARRIER

FIGURE 6-4

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Grove recommends the crane be equipped with the following cold weather accessories:

Down to -29°C (-20°F) Package

- Battery heater
- Transmission heater
- In-line fuel heater
- Engine hood insulation
- Fan clutch
- Radiator shutters
- Air diverter
- Diesel fired cab heater
- Fluids suitable to -29°C (-20°F)
  - Arctic windshield washer fluid
  - Arctic fuel

Down to -40°C (-40°F) Package

- Coolant heater (to circulate warm coolant through heaters and engine)
- Transmission heater
- Hydraulic swivel heater
- Battery heater
- In-line Fuel heater
- Engine hood insulation
- Fan clutch
- Radiator shutters
- Air diverter
- Diesel fired cab heater
- Super-capacitor starting system
- Fluids suitable to -40°C (-40°F):
  - Arctic windshield washer fluid
  - Arctic fuel

Individual crane components must be sufficiently warmed prior to performing a lift. Follow the warm-up procedures found in section *Crane Warm-up Procedures*, page 4-11.

For crane operation below -40°C (-40°F), derate load chart capacities by 6.60% for each degree Celsius or by 3.67% for each degree Fahrenheit below -40°C (-40°F).

Operation of cranes at full rated capacities in ambient temperatures below -9°C (15°F) should be accomplished only by competent operators who possess the skill, experience, and dexterity to ensure smooth operation. Shock loading shall be avoided.

Coolant Heater

A diesel fueled coolant heater circulates warm coolant through engine and crane components when operating during arctic temperatures. The coolant heater should be activated 2 hours before starting the crane to allow sufficient time to preheat fluids and assist with easy start-up conditions.

WARNING

Explosion Hazard!

Before switching on, check if heater can be operated at current site of the crane. There is a danger of explosion when using heater around combustible objects! Do not park vehicle near objects that are flammable.

Use caution near heater exhaust tailpipe as it will also become very hot.

NOTE: Operation of heater is NOT allowed:

- At locations where flammable gas or vapors are found or can be formed (example: at fuel stations and chemical factories)
- At locations where explosive dust is found or can be formed (example: coal, wood or grain dust).
- There is a risk of suffocation when using the heater!
- Do not operate heater in enclosed spaces (example: garages).

To activate heater, make sure fuel supply valve from heater fuel reservoir is turned to the ON position. Make sure battery disconnect switch is turned to the ON position and push the activation button at the heater control panel. A green light will come on indicating system is activated. The start-up and shutdown cycles may take approximately 2 minutes for initialization. Make sure coolant, transmission heater, swivel, battery heater, in-line fuel pump, in-line fuel heater, and hydraulic reservoir heater are heating properly.

To deactivate heater, push button at heater control panel. The green light will go off indicating system is deactivated. Shutdown cycle takes approximately 2 minutes.

NOTE: Accelerated discharging of battery will occur when crane engine is switched off. If heater is operated with crane engine stopped, batteries will need to be recharged after a short period of time.

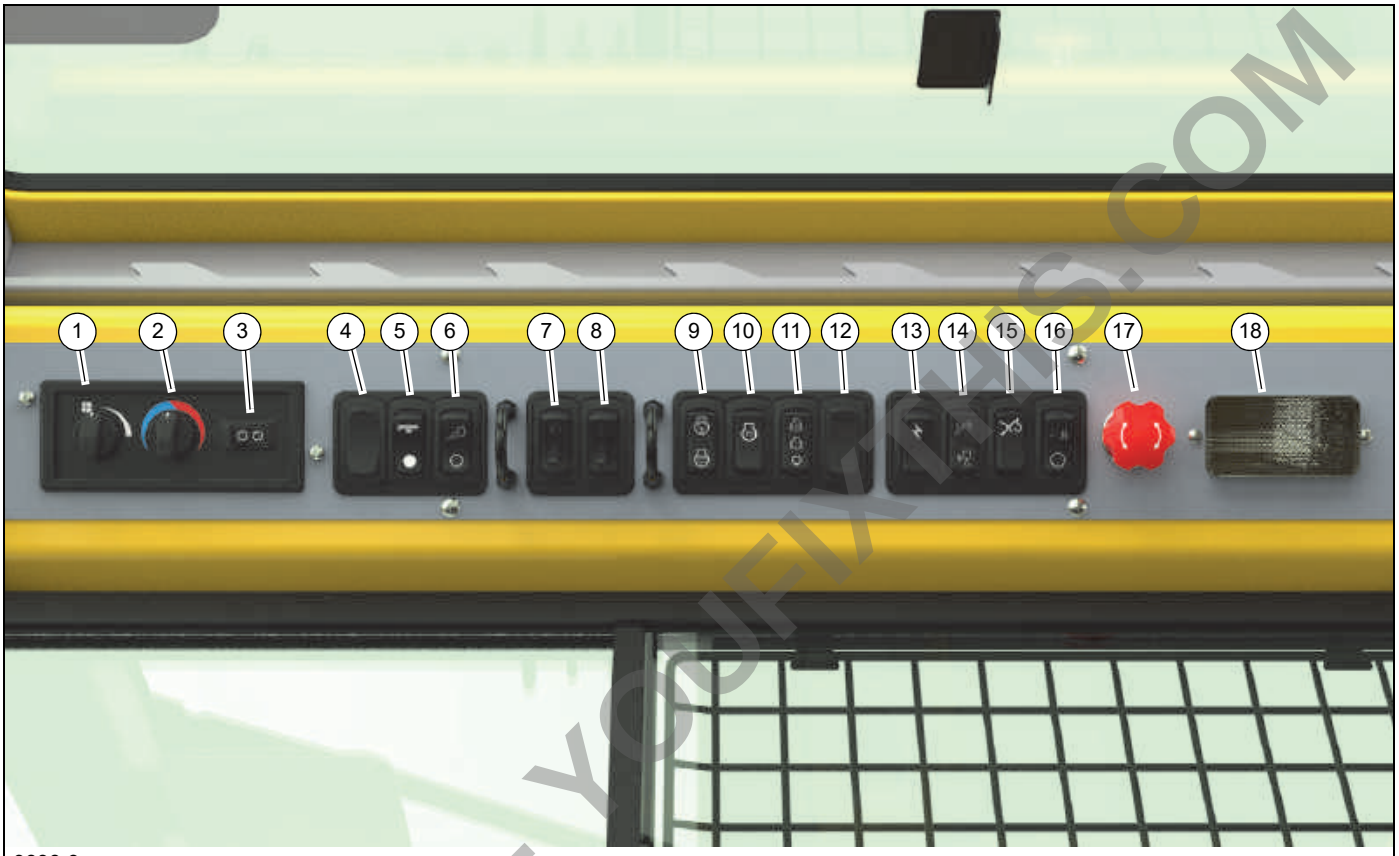
Radiator Shutters

When starting engine, radiator shutters close and then reopen when coolant temperature reaches 71°C (160°F).

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

RIGHT OVERHEAD CONTROL PANEL

The right overhead control panel (Figure 3-9) includes controls for operating the heating and air conditioning system, front and skylight window wipers, engine, and craning functions.



9838-3c

Item	Description	Page	Item	Description	Page
1	Heater/Air Conditioner Fan Speed Switch	3-11	11	Engine Brake Switch (Optional)	3-12
2	Heater/Air Conditioner Temperature Control Switch	3-11	12	Remote Control Enable/Disable Switch	3-12
3	Fresh Air/Recirculation Air Switch	3-11	13	Crane Function Enable/Disable Switch	3-12
4	Boom-Mounted Lights Motor Switch (Optional)	3-11	14	Momentary Limit Bypass Switch (Non-CE Certified Cranes)	3-13
5	Boom-Mounted Lights Switch (Optional)	3-11	14	Limit Bypass Set-up Switch (CE Certified Cranes)	3-13
6	Cab-Mounted Lights Switch	3-11	15	Boom Up Bypass Switch	3-14
7	Front Window Wiper and Washer Switch	3-11	16	Steering Reversal Switch	3-14
8	Skylight Wiper and Washer Switch	3-11	17	Emergency Stop Button (E-Stop)	3-15
9	Increment/Decrement – Start/Stop Switch	3-11	18	Cab Dome Light	3-15
10	Engine Wait-To-Start Indicator	3-12			

FIGURE 3-9

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

TABLE OF CONTENTS

SECTION 1 . . . . . Introduction
General 1-1
Customer Support 1-2
New Owners 1-2
Noise/Vibration Test Results 1-3
Noise Level Test Results 1-3
Vibration Level Test Results 1-3
Serial Number Location 1-3
GRT9165 Crane Components 1-4
List Of Specifications 1-6
General 1-6
Dimensions 1-6
Capacities 1-6
Transmission 1-6
Torque Converter 1-6
Engine 1-6
Cummins QSB 6.7L - Stage V/Tier 4F 1-6
Cummins QSB 6.7L - Non-Certified 1-6
Axles 1-6
Steering 1-6
Brakes 1-6
Wheels and Tires 1-6
Swing Gearbox 1-6
Boom 1-7
Outriggers 1-7
Swivel Assembly 1-7
Hydraulic Pumps 1-7
Pump #1 1-7
Pump #2 1-7
Pump #3 1-7
Pump #4 1-7
Hoists 1-7

SECTION 2 . . . . . Safety Information
Safety Messages 2-2
General 2-2
Safety Alert Symbol 2-2
Signal Words 2-2
General 2-2
Accidents 2-2
Operator Information 2-3
Operator Qualifications 2-3
Operational Aids 2-4
Rated Capacity Limiter (RCL) Systems 2-4
Anti-Two-Blocking Device 2-5
Working Area Limiter (If Equipped) 2-5
Crane Stability/Structural Strength 2-6
Load Charts 2-7
Work Site 2-7
Wind Forces 2-7
Wind Speeds 2-8
Determination of 3-second wind gust speed at boom tip height: 2-10
Size and Shape of the load: 2-10
Determining Wind Drag Coefficient (Cd) 2-11

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

SAFETY MESSAGES

General

The importance of safe operation and maintenance cannot be overemphasized. Carelessness or neglect on the part of operators, job supervisors and planners, rigging personnel, and job site workers can result in their death or injury and costly damage to the crane and property.

To alert personnel to hazardous operating practices and maintenance procedures, safety messages are used throughout the manual. Each safety message contains a safety alert symbol and a signal word to identify the hazard's degree of seriousness.

Safety Alert Symbol

This safety alert symbol means **ATTENTION! Become alert - your safety is involved!** Obey all safety messages that follow this symbol to avoid possible death or injury.

Signal Words

DANGER

Identifies **hazards** that will result in death or serious injury if the message is ignored**.**

WARNING

Identifies **hazards** that may result in death or serious injury if the message is ignored.

CAUTION

Identifies **hazards** that could result in minor or moderate injury if the message is ignored.

CAUTION

Without the safety alert symbol, identifies **hazards** that could result in property damage if the message is ignored.

NOTE: Emphasizes operation or maintenance procedures.

GENERAL

It is impossible to compile a list of safety precautions covering all situations. However, there are basic principles that **must** be followed during your daily routine. Safety is **your primary responsibility**, since any piece of equipment is only as safe **as the person at the controls**.

Read and follow the information located in *Model Specific Information* near the end of this section.

This information has been provided to assist in promoting a safe working atmosphere for yourself and those around you. It is not meant to cover every conceivable circumstance which could arise. It is intended to present basic safety precautions that should be followed in daily operation.

Because you are the only part of the crane that can think and reason, your responsibility is not lessened by the addition of operational aids or warning devices. Indeed, you must guard against acquiring a false sense of security when using them. They are there to assist, not direct the operation. Operational aids or warning devices can be mechanical, electrical, electronic, or a combination thereof. They are subject to failure or misuse and should not be relied upon in place of good operating practices.

You are the only one who can be relied upon to assure the safety of yourself and those around you. Be a **professional** and follow the **rules of safety**.

Remember, failure to follow just one safety precaution could cause an accident that results in death or serious injury to personnel or damage to equipment. You are responsible for the safety of yourself and those around you.

ACCIDENTS

Following any accident or damage to equipment, the Grove distributor must be immediately advised of the incident and consulted on necessary inspections and repairs. Should the distributor not be immediately available, contact should be made directly with Grove Product Safety at the address below. The crane must not be returned to service until it is thoroughly inspected for any evidence of damage. All damaged parts must be repaired or replaced as authorized by your Grove distributor and/or Manitowoc Crane Care.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Maximum Permissible Wind Speed 2-12
Example and Sample Calculations (Non-metric) 2-18
Lifting Operations 2-20
Multiple Crane Lifts 2-21
Lifting Multiple Loads 2-21
Tilt-Up Panel Lifting 2-21
Counterweight 2-22
Outrigger Lift Off 2-22
Pile Driving and Extracting 2-22
Crane Equipment 2-23
Crane Inspection 2-23
Electrocution Hazard 2-23
Set-Up and Operation 2-24
Electrocution Hazard Devices 2-25
Electrical Contact 2-25
Special Operating Conditions and Equipment 2-26
Grounding the Crane 2-26
Personnel Handling 2-27
Environmental Protection 2-28
Maintenance 2-28
Service and Repairs 2-28
Hydraulic Fluid 2-28
Moving Parts 2-29
Before maintenance or repairs 2-29
After maintenance or repairs 2-29
Lubrication 2-29
Tires 2-29
Hoist Rope 2-30
Synthetic Hoist Rope 2-30
Wire Rope 2-30
Sheaves 2-32
Batteries 2-32
Super Capacitor (If Equipped) 2-32
General Maintenance 2-33
Transporting the Crane 2-33
Travel Operation 2-33
Work Practices 2-35
Personal Considerations 2-35
Crane Access 2-35
Job Preparation 2-35
Working 2-36
Lifting 2-36
Hand Signals 2-37
Boom Extension 2-39
Parking and Securing 2-39
Shut-Down 2-39
Cold Weather Operation 2-39
Temperature Effects on Hook Blocks 2-40
Temperature Effects on Hydraulic Cylinders 2-41
Model Specific Information 2-43
Hoist Platform 2-43
Overload Inspection 2-43
Boom Inspection 2-44
Superstructure Inspection 2-46
Carrier Inspection 2-48

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

CONTROLS AND FEATURES EXTERNAL TO THE CAB

Outrigger Removal Control Box

An Outrigger Removal Control Box (Figure 3-33) is located on the left front and right rear sides of the carrier.

The front and rear Outrigger Removal Control Boxes include switches for engaging and disengaging the large pins that secure the related outrigger box to the carrier.

Refer to *Outrigger Removal and Installation*, page 5-29 for complete procedures on removing and installing the outriggers boxes.

Pin Enable Switch

The Pin Enable Switch (1, Figure 3-33) is a momentary three-position switch with center position maintained.

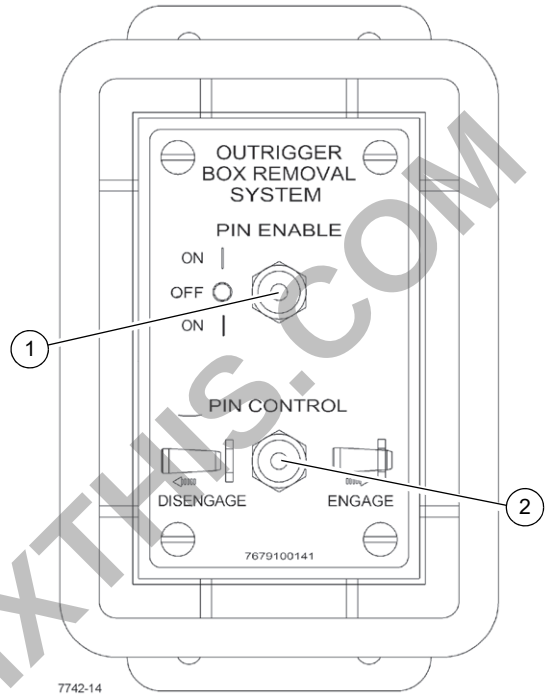
The Pin Enable Switch is used to enable and disable the Pin Control Switch (2, Figure 3-33). Move switch to the upper or lower ON position and hold to enable the Pin Control Switch to operate. Release the switch and let it return to the center OFF (disable) position.

Pin Control Switch

The Pin Control Switch (2, Figure 3-33) is a momentary three-position switch with center position maintained.

The Pin Control Switch is used to engage and disengage the large pins that secure the related outrigger box to the carrier.

With the Pin Enable Switch (1, Figure 3-33) positioned to ON, move the Pin Control Switch to the left and hold to disengage the outrigger box pins. With the Pin Enable Switch positioned to ON, move the Pin Control Switch to the right and hold to engage the outrigger box pins.



Item	Description
1	Pin Enable Switch
2	Pin Control Switch

FIGURE 3-33

Bridging Switch (CE Certified Cranes)

WARNING

Overload Hazard!

The Bridging Switch prevents the function lockouts from activating.

When the Bridging Switch is activated, the operator must make sure that the crane is not overloaded.

Do not operate crane with RCL overridden during normal operations.

The Rated Capacity Limiter (RCL) system, when programmed accurately, will lock out the following crane functions—boom up/down, telescope extend, and hoist up—when a lift is attempted at or above crane capacity, or when a two-block condition exists.

Locking out these functions prevents the overload or two-block condition from worsening.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

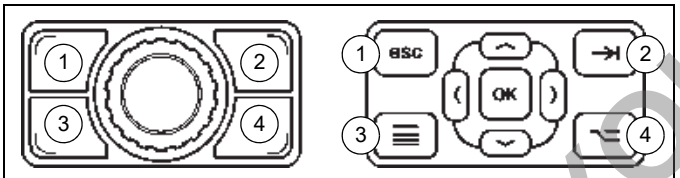
Extending/Retracting the Outriggers Beams

To extend or retract the O/R beams, perform the following procedure:

1. Using the Jog Dial, or the Arrow Buttons at the Navigation Control Pad, select the O/R Beam icon (6, Figure 4-99) (icon will turn orange when selected).
2. Press the Jog Dial, or the OK Button at the ODM, to make the O/R Beam icon active (icon will turn green when active).
3. To extend the O/R beams, position the Outrigger Extend/Retract Switch (17, Figure 3-17) on the left armrest to the extend position, then press and hold one or more of the four buttons at the Jog Dial or the Navigation Control Pad (Figure 4-98).

   To retract the O/R beams, position the Outrigger Extend/Retract Switch to the retract position, then press and hold one or more of the four buttons at the Jog Dial or the Navigation Control Pad.

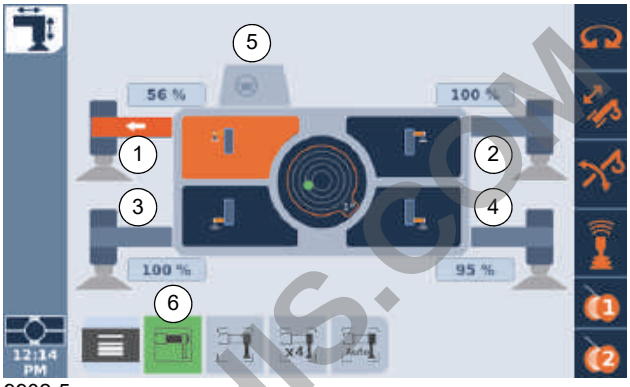
NOTE: The O/R beam positions correspond to the four buttons at the Jog Dial and the ODM Navigation Control Pad (Figure 4-98 and Figure 4-99).



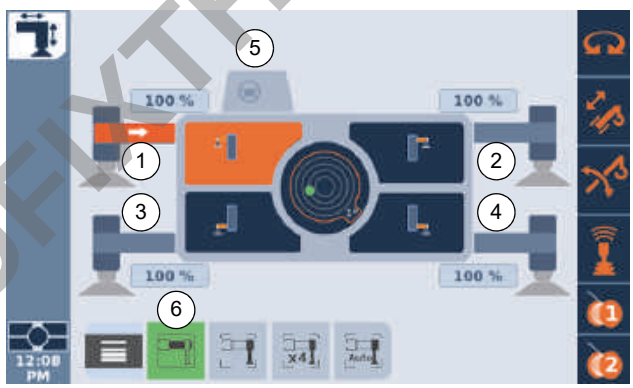
Item	Description
1	Left-Front Beam
2	Right-Front Beam
3	Left-Rear Beam
4	Right-Rear Beam

FIGURE 4-98

When a button at the Jog Dial or Navigation Control Pad is pressed and held, the corresponding O/R beam image turns orange to indicate that it is actively moving. An arrow will appear to indicate whether the beam is extending or retracting. In the following example (Figure 4-99), the top image shows the Left-Front O/R beam is extending and the bottom image shows the Left-Front O/R beam is retracting.



9902-5



9902-6

Item	Description
1	Left-Front Beam
2	Right-Front Beam
3	Left-Rear Beam
4	Right-Rear Beam
5	Steering Wheel (indicates front of crane)
6	O/R Beam Icon

FIGURE 4-99

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

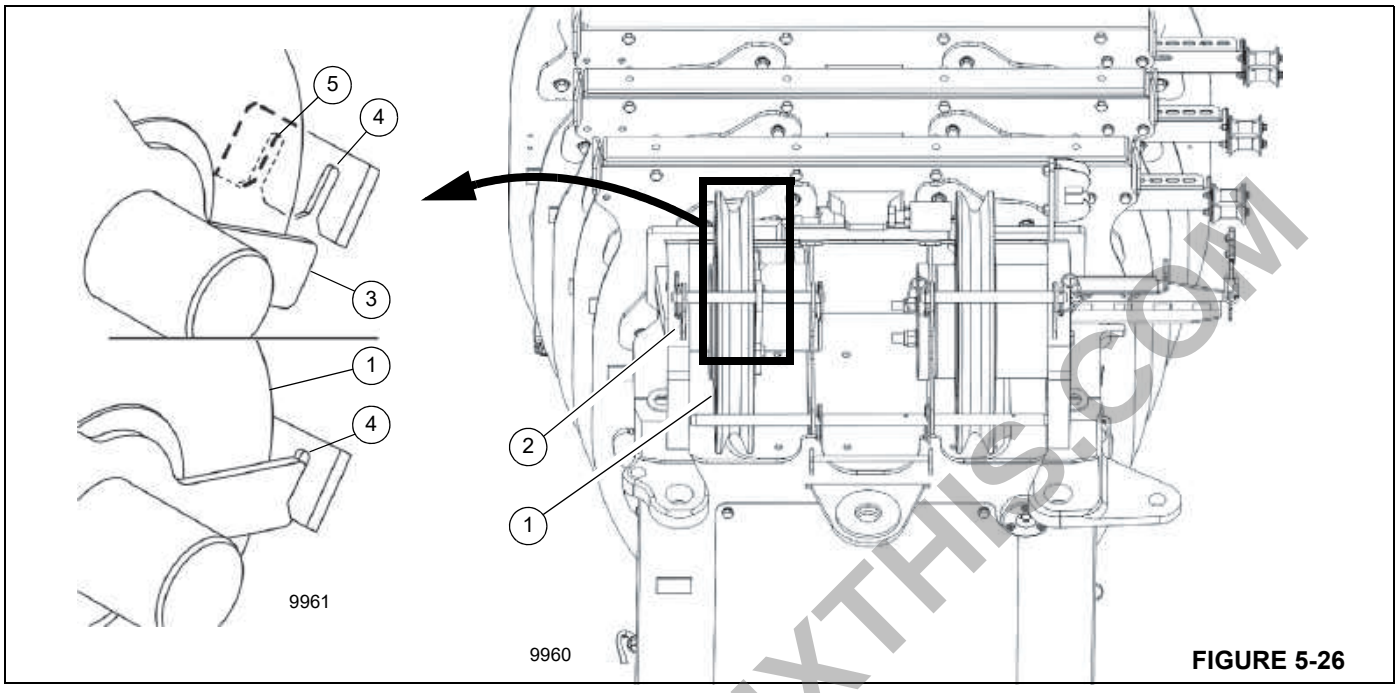


FIGURE 5-26

Reeving/Unreeving the Hoist Rope

Use the following procedures to reeve and unreeve the hoist rope.

Reeving Hoist Rope

CAUTION

Falling Objects Hazard!

Always make sure sheaves and pins that secure the hoist rope are secured with clips. This prevents components from coming loose, falling and causing injury.

1. Make sure the main hoist rope is in the rope guide. If necessary, make sure the auxiliary hoist rope is over the rope guide. For more information, see *Reeving Hoist Rope Over the Boom*, page 5-42.
2. Remove the retaining rods (1, Figure 5-27).
3. Guide the rope over the upper boom nose sheave (2).
4. Guide the rope over the lower boom nose sheave (3).
5. Install the hook tackle or the hook block.
6. Reinstall all the retaining rods (1) and secure with retaining clips.

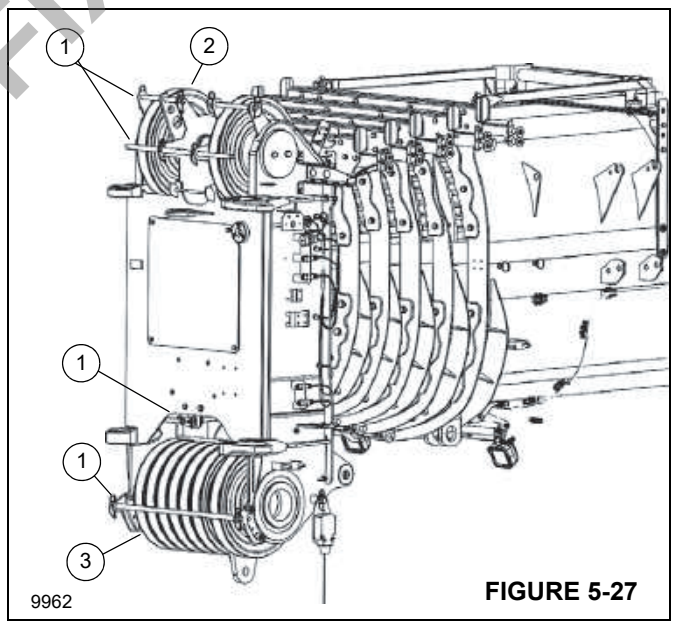


FIGURE 5-27

Unreeving Hoist Cable

1. Remove the retaining rods (1, Figure 5-27).
2. Unreeve the hook block.
3. Take the hoist rope off of the upper boom nose sheave (2) and place it on the ground on the left side. Spool the hoist rope on the hoist drum.
4. Replace all retaining rods and secure them with retaining clips.

5

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 18 of 476 pages

The full manual includes:

- All 476 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Grove GRT9165 Operator Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual