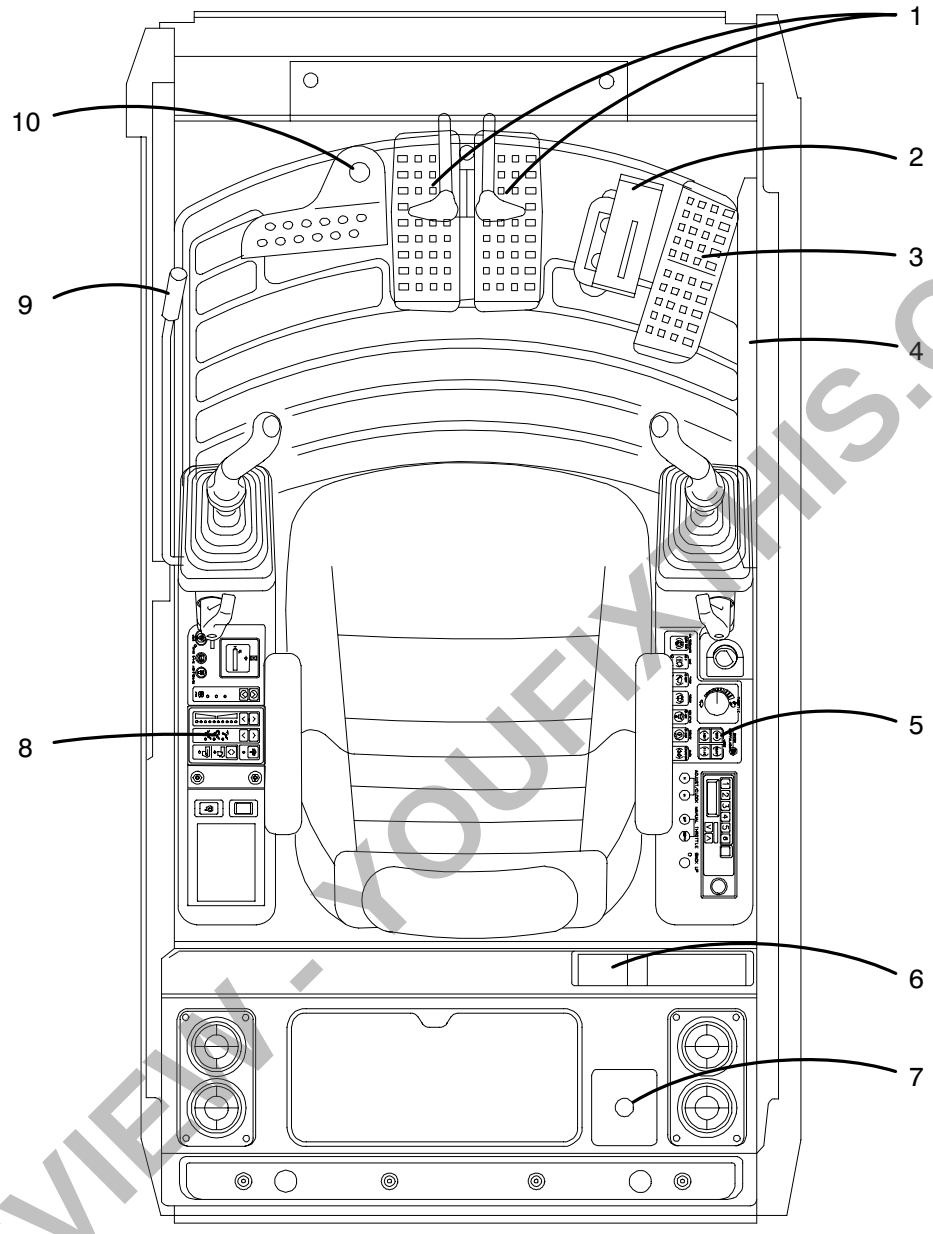


1. Travel Levers/Pedals
2. Optional Attachment Pedal
3. Single Pedal Travel
4. System Control Monitor
5. Right Control Console
6. Fuse Box
7. Cigarette Lighter
8. Left Control Console
9. Function Control Lockout (Gate) Lever
10. Travel Speed Switch

Figure 1–13
Operator's Controls

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1. Travel Levers/Pedals

These levers and pedals are used to travel and steer the machine around the jobsite. They are used for forward and reverse travel. The levers may be removed if desired.

2. Optional Attachment Pedal

This pedal is used for the optional attachments such as a hydraulic hammer, crusher etc. Read and understand the operator's manual for the attachment before operating the optional attachment.

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Inspection And Maintenance Check List		
Daily Checks (Before Operating)		
Check Before Starting Engine	**General**	1. Inspect for oil and water leakage. 2. Inspect for looseness of bolts; tighten as required. 3. Dust accumulation. 4. Visual damage and deformation.
	Engine	1. Inspect engine oil level and cleanliness; add or change as required. 2. Inspect coolant level; add as required. 3. Inspect for damaged and clogged radiator and oil cooler. Repair or clean as required. 4. Inspect for tension of belts 5. Inspect for clogged air cleaner element. Clean or replace. 6. Inspect for oil and water leakage of each part. Inspect for damaged hoses and pipes.
	Upper	1. Inspect fuel level. 2. Inspect hydraulic oil level and cleanliness; add or change as required. 3. Inspect for oil and water leakage of each part. Inspect for damaged hoses and pipes. 4. Inspect for deformation and damage of each part. 5. Inspect for breakage, short circuit and loose terminals in the electrical wiring.
	Crawler	1. Inspect for looseness, wear and breakage of shoes. 2. Inspect for oil leakage and wear of upper and lower rollers and idlers. 3. Inspect for looseness of mounting bolts and missing bolts.
	Attachment	1. Inspect for oil leakage and damage of the cylinders, hoses, and pipes. 2. Inspect for wear and damage to the bucket and bucket teeth. 3. Inspect for greasing condition of attachment. 4. Inspect for looseness of mounting bolts and missing bolts.
Check After Starting Engine	**General**	1. Check ease of starting, exhaust color and unusual noise of engine. 2. Check operation and unusual noise of hydraulic components. 3. Check for oil and water leakage of each part. 4. Check operation of horn, buzzer, lamps, windshield wiper. and monitor display. 5. Check the operation and performance (travel, swing, swing brake, and attachment).

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Hydraulic Pressure Settings Chart				
Hydraulic Circuit		**Quick Disconnect & Adjustment Location**	**Relief Valve Setting**	**Procedure**
Main Relief	Standard	Refer to Figure 2–17	4,600±150 psi (*323±10kg/cm²*)	Refer to Page 2–21
	Heavy Lift		5,050±150 psi (*355±10kg/cm²*)	
Port Relief				
Boom	Up	Refer to Figure 2–17	5,250±150 psi (*369±10kg/cm²*)	Refer to Page 2–21
	Down		4,150±250 psi (*291±17kg/cm²*)	
Arm	In, Out	Refer to Figure 2–17	5,250±150 psi (*369±10kg/cm²*)	Refer to Page 2–21
Bucket	Open, Close	Refer to Figure 2–17	5,050±150 psi (*355±17kg/cm²*)	Refer to Page 2–21
Swing	Left, Right	Refer to Figure 2–19	4,050±150 psi (*284±10kg/cm²*)	Refer to Page 2–22
Travel Motors	Forward, Reverse	Refer to Figure 2–20	4,950±150 psi (*348±10kg/cm²*)	Refer to Page 2–22
Pilot Control		Refer to Figure 2–21	650±50 psi (*45.7±3.5kg/cm²*)	Refer to Page 2–23

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Engine & Auxiliary Parts Troubleshooting Chart		
Problem	**Probable Cause**	**Solution**
Starter motor will not run	Improper electrical wiring. Insufficient battery charge.	Repair Charge
Starter motor turns but the engine will not start	There is air or water mixed in the fuel. Insufficient fuel (FUEL lamp flashing). Lack of cold weather starting aid	Check, replace Add fuel Use ether start
The BATT lamp flickers	Insufficient battery fluid. Battery is out of order.	Add fuel Replace
The charging lamp comes on	The alternator is out of order.	Repair
The oil lamp comes on	Engine oil level is low. Inoperative oil pressure switch.	Add oil Replace
Over heating of the water (More than 8 bar graph segments are illuminated)	Improper adjustment or damaged belt. Insufficient coolant, leakage. Inoperative thermostat. Engine over−heating.	Adjust tension/replace Add coolant Replace See engine manual
Water temperature gauge will not rise (No bar graphs visible)	Inoperative thermostat. Break in wiring.	Replace Inspect/repair
White engine exhaust	Engine oil level too high. Insufficient fuel.	Adjust to designated amount Replace
Black engine exhaust	Inoperative nozzle. Clogged air cleaner.	Replace Clean or replace
Abnormal noise (in engine or machinery)	Low−quality fuel. Damage to muffler.	Replace Replace

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Machine Specifications

The following information is general in nature and is used for reference purposes only. Depending upon the vintage of the machine, some features may no longer be available. Standard and optional features may vary from machine to machine. Consult the factory to verify the specific information if required.

Undercarriage

X−style carbody is integrally welded for strength and durability. Grease cylinder track adjusters with shock absorbing springs. LC undercarriage with sealed track, lubricated rollers and idlers. Triple grouser track shoes.

Carrier rollers . . . . . 2 per side
Track rollers . . . . . 9 per side
Shoes . . . . . 50 per side
Shoe width . . . . . 31.5" (*800 mm*)
Ground pressure . . . . . 7.01 psi (*.49 kg/cm²*)

Alternating inner and outer flanged rollers are used to assure proper track rail to roller engagement.

Track Drive

Three−speed independent hydrostatic travel with compact axial piston motors for increased performance. Hydraulic motor powered output shaft coupled to a planetary reduction unit and track sprocket. All hydraulic components mounted within the width of side frame. Travel speeds selected by floor mounted foot switch.

Automatic Downshift: When operating in difficult travel conditions or on slopes, travel motor automatically downshifts from high speed to mid−range speed for increased tractive effort. Machine will automatically return to high speed after traveling out of difficult terrain.

Single Pedal Travel: Engage both tracks simultaneously.
Max. travel speed . . . . . 1.4/2.1/3.1 mph
. . . . . (*2.3/3.4/ 5.0 km/h*)
Tractive effort . . . . . 56,765 lbs. (*25 750 kg*)
Gradeability 70%

Travel Brakes

Spring applied, hydraulically released disc parking brake built into each motor. Each travel motor equipped with counterbalance valve to prevent overspeeding down an incline and dual stage reliefs for smooth starts and stops.

Travel Steering

Controlled by foot pedals or removable hand levers. Pushing both pedals (or levers) forward powers machine forward. Or both tracks can be engaged simultaneously by use of single pedal travel. Pushing both pedals (or levers) back powers the machine in reverse. Pushing one pedal (or lever) forward and one pedal (or lever) backward will make machine counter−rotate. The machine will pivot turn by placing one control in neutral and activating the other control pedal (or lever).

Swing

Planetary reduction powered by axial piston motor. Internal ring gear with grease cavity for swing pinion. Swing bearing is single−row shear type ball bearing. Swing cushion valve and dual stage relief valves for smooth swing deceleration and stops. Mechanical disc swing brake.

Swing speed . . . . . 0 − 10.25 rpm
Tail swing . . . . . 10' 8" (*3.25 m*)
Swing torque . . . . . 75,400 ft lb (*10 428 kg*)

Engine

Cummins M11−C265 turbocharged, water cooled, 4−cycle diesel, 6 cylinder, 661 CID (*10 800 cc*), 4.92" (*125 mm*) bore X 5.79" (*147 mm*) stroke.

SAE net horsepower . . 240 HP (*186 kW*) @ 1,700 rpm
Maximum torque . . . . . 900 ft−lbs.
(*124 kg−m*) @ 1,300 rpm
Starter . . . . . Electric, 24V, 4.5 kW
Alternator . . . . . 70 amp
Air cleaner . . . . . Double element
Governor . . . . . Variable speed, mechanical

Cummins L10−1.5c turbocharged, water cooled, 4−cycle diesel, 6 cylinder, 610 CID (*9 998 cc*), 4.92" (*125 mm*) bore X 5.35" (*136 mm*) stroke.

SAE net horsepower . . 249 HP (*186 kW*) @ 1,800 rpm
Maximum torque . . . . . 870 ft−lbs.
(*120 kg−m*) @ 1,300 rpm
Starter . . . . . Electric, 24V, 4.5 kW
Alternator . . . . . 70 amp
Air cleaner . . . . . Double element
Governor . . . . . Variable speed, mechanical

Lubricant & Coolant Capacity

Hydraulic tank . . . . . 40 gal. (*152 liters*)
Hydraulic system . . . . . 84.5 gal. (*320 liters*)
Final drive (per side) . . . . . 2.1 gal. (*8 liters*)
Swing drive . . . . . 3.36 gal. (*12.5 liters*)
Engine . . . . . 9 gal. (*34 liters*)
Fuel tank . . . . . 153 gal. (*580 liters*)
Cooling system (M11) . . . . . 15 gal. (*56.8 liters*)
Cooling system (L10) . . . . . 12.5 gal. (*40 liters*)

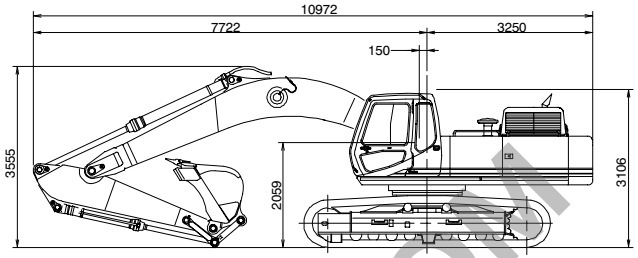
Hydraulic System

Two variable displacement axial piston pumps and one gear pump for pilot controls, with Link−Belt Intelligent

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NOTES:

1. THE TRANSPORTATION DIMENSIONS INCLUDE THE GROUSER HEIGHT. THE RANGE DIAGRAM DOES NOT.
2. ALL DIMENSIONS ARE IN MILLIMETERS.



TRANSPORTING DIMENSIONS

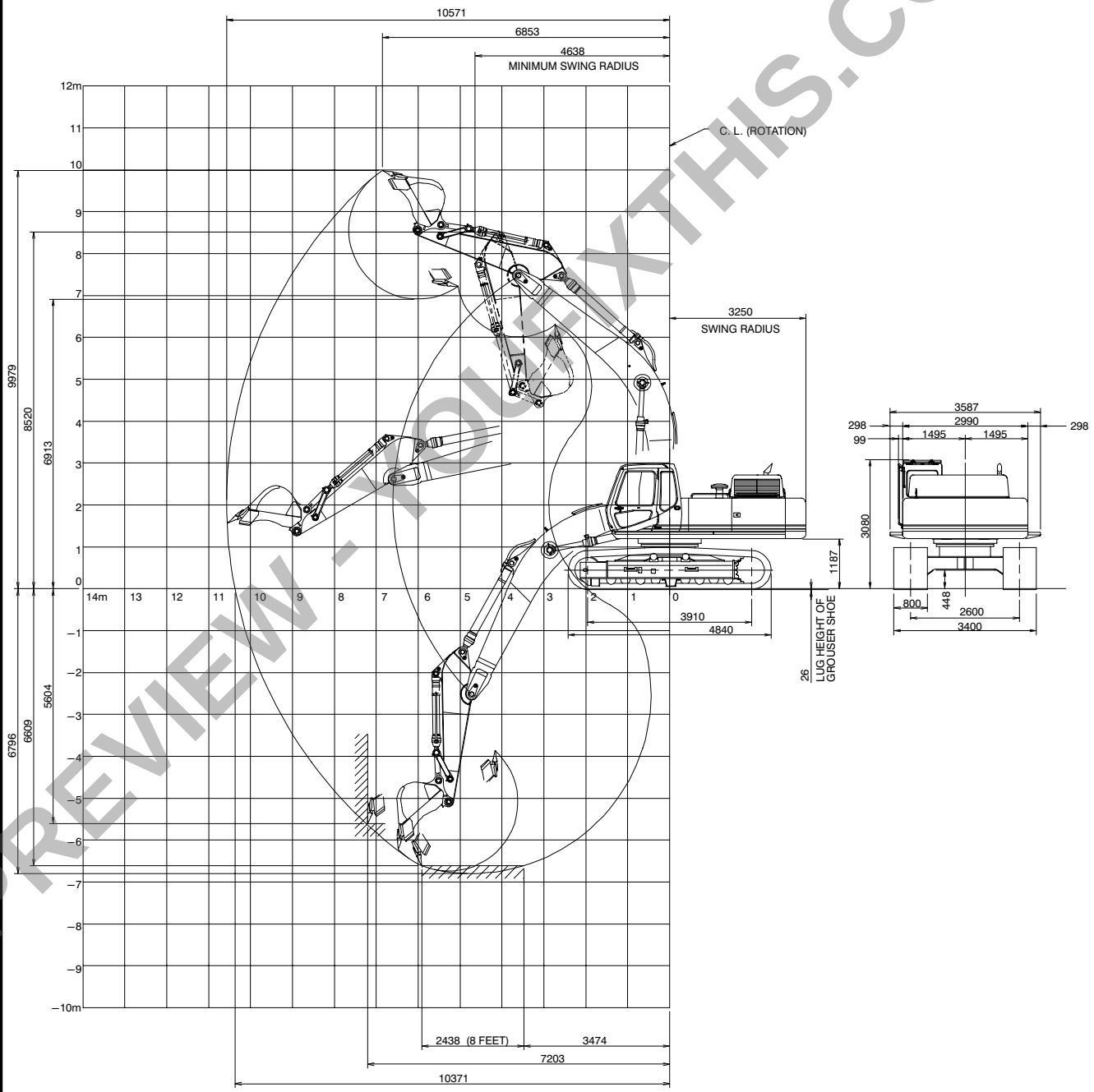
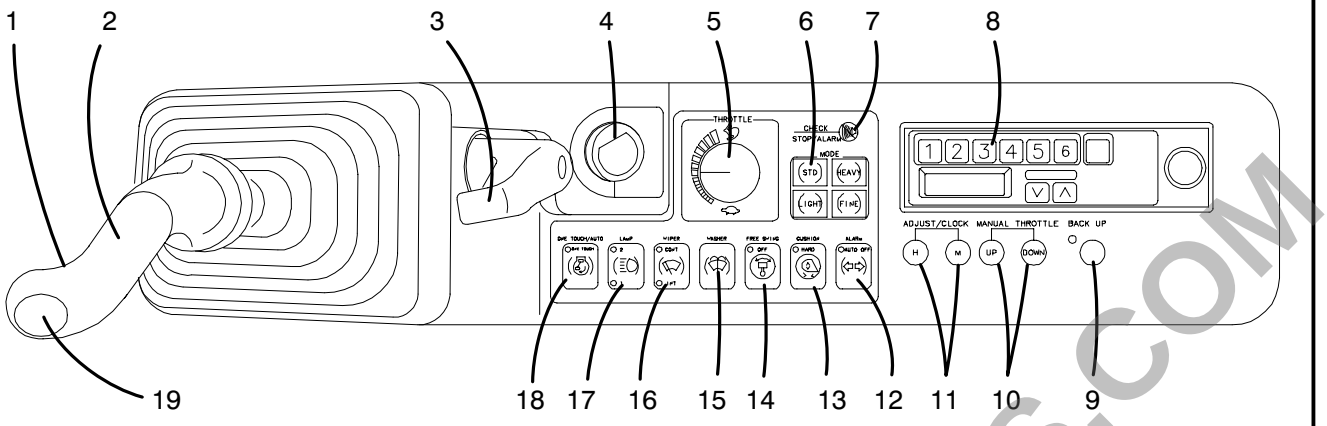


Figure 3—1
Working Range With 8 Ft 7 in (*2.62m*) Arm

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1. Power Up Button
2. Boom & Bucket Joystick Control
3. Right Console Tilt Handle
4. Starter Switch
5. Throttle Dial
6. Working Mode Switches
7. Lamp Check & Buzzer Stop Button
8. Radio
9. Back Up Switch
10. Manual Throttle Switch
11. Clock Adjustment Buttons
12. Travel Caution Buzzer & Switch
13. Attachment Cushion Control Switch
14. Free Swing Switch
15. Windshield Washer Switch
16. Windshield Wiper Switch
17. Light Switch
18. One Touch/Auto Idle Switch
19. One Touch Idle Switch

Figure 1—14
Right Control Console

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Right Control Console

Located to the right of the operator is a control console which contains the following controls and switches.

1. Power Up Button

   This button activates the power up feature. Use this feature when performing an operation that requires a temporary boost in power. When working in the "H" or "S" mode, pressing this button will increase power for approximately 8 seconds. When working in the "F" mode, the power up feature will activate automatically when required. This feature is not available when working in the "L" mode.

   Note: When the power up mode is activated, the message "POWER UP" will illuminate on the system control monitor.

2. Boom & Bucket Joystick Control

   This control operates all functions of the boom and bucket operations. See "Joystick Controls" found later in this section of the Operator's Manual for more details.

3. Right Console Tilt Handle

   Turn the handle to release the console. Move the console to the desired position and release the handle.

4. Starter Switch

   This key operated switch is used to energize the cab control console and to start the engine. Move key switch to the ON position to energize the system and then to the START position to start engine. Release the key as soon as the engine starts. The key will automatically return to the ON position.

   Note: If the engine does not start on the first attempt, crank the starter for 10—15 seconds, then allow it to cool for 10—15 seconds. If the engine starting performance is poor during cold weather, it is permissible to crank the starter continuously for about 30 seconds.

5. Throttle Dial

   Using the throttle dial gives the operator the ability to set and hold a specific engine speed. Rotate the dial clockwise to increase engine speed and counterclockwise to decrease engine speed.

   Note: Lowering the engine speed can cause vibrations. Vibrations can be stopped by slightly increasing RPMs.

   If engine speed does not change when rotating the dial, push the One Touch Idle switch on the right control lever. Check that the One Touch/Auto Idle switch is ON.

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Regular Inspection And Maintenance Check List									
	Location	Interval						Lube Type	See Note
		50	250	500	1000	3000	5000		
Engine	Fuel Tank	×							
	Water Separator	×							
	Check & Adjust Belts	Daily							1
	Radiator Fins		□						
	Nuts & Bolts	△	■						
Upper	Hoses	■							
	Battery		■						
	Turntable Bearing Gear Teeth			○				Extreme Pressure Grease	
Crawler	Upper Roller, Take Up Roller	■						Engine Oil	
	Lower Roller	■						Gear Oil	
Misc	Air Conditioner (if equipped)		□■						
	Bucket Mounting Pin Clearance Adjustment							As Required	
	Track Shoe Tension Adjustment							As Required	

○:Supply and Refill Grease
△:Initial Replacement and Inspection
□:Clean
×:Water Drain and Sediment Discharge
■:Retighten, Inspect, & Adjust
Notes: 1. Refer to engine manufacturer's manual.

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