

Product: 2008 Terex RL4000D2 Light Tower Workshop Service Manual

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TEREX®

Service Manual

RL4000D2

First Edition
First Printing
Part No. 116473
September 2008

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Introduction

Important

Read, understand and obey the safety rules and operating instructions in the appropriate Operator's Manual on your machine before attempting any maintenance procedure.

Basic mechanical, hydraulic and electrical skills are required to perform most procedures. However, several procedures require specialized skills, tools, lifting equipment and a suitable workshop. In these instances, we strongly recommend that maintenance and repair be performed at an authorized TEREX dealer service center.

Technical Publications

TEREX Corporation has endeavored to deliver the highest degree of accuracy possible. However, continuous improvement of our products is a TEREX policy. Therefore, product specifications are subject to change without notice.

Readers are encouraged to notify TEREX of errors and send in suggestions for improvement. All communications will be carefully considered for future printings of this and all other manuals.

Serial Number Information

TEREX Corporation offers the following manuals for these models:

Title	Part No.
TEREX RL4000 Operator's Manual First Edition	116417
TEREX RL4000 Service Manual First Edition	116473
TEREX RL4000 Part's Manual First Edition	116444
Leroy Somer Manual.....	116118
Kubota Engine Manual	893020
Axis Manual	116117
Marathon Manual	116188

Contact Us:

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First Edition, Second Printing

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Printed in U.S.A.

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How to Read Your Serial Number

Serial Number Legend

The serial number plate on your RL4000 is located on the cabinet next to the light tower mast.

MANUFACTURED BY/FABRIQUE PAR:
 TEREX ROCK HILL
 590 Huey Road
 Rock Hill, SC 29732



DATE: FEBRUARY 2008
 GVWR / PNBV 1,244 KG (2,743 LBS)
 GAWR / PNBE 1,244 KG (2,743 LBS)
 TIRES / PNEU ST205/75D13 LOAD RANGE C
 RIMS / JANTE 15.0 X 4.5 5H
 COLD TIRES INFL/ 35 PSI / 250 KPA

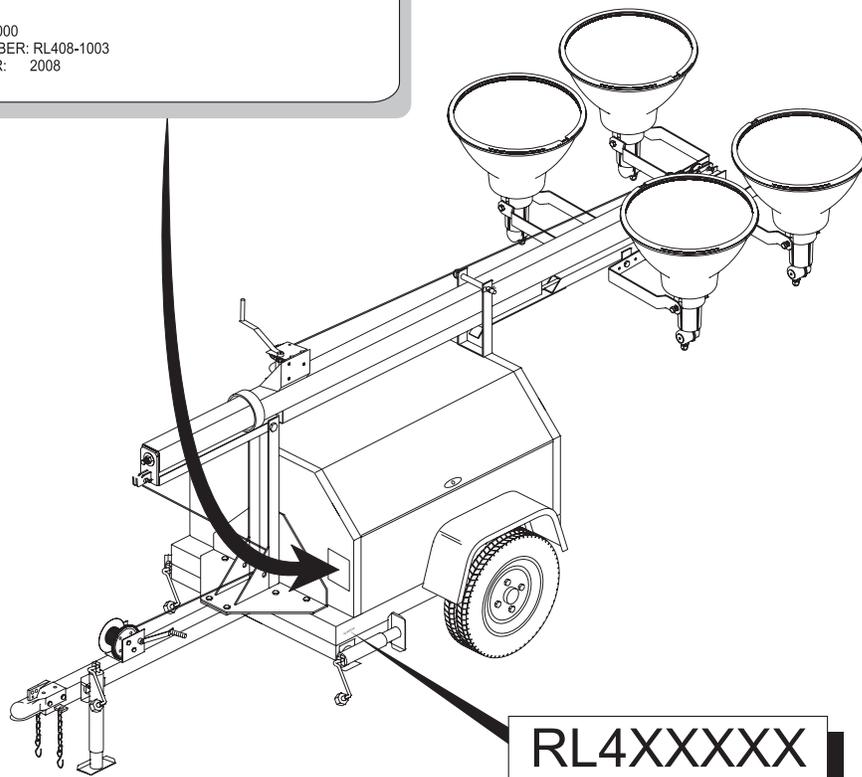
PRESS, DE GONFL. A FROID 'SINGLE'

THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR VEHICLE SAFETY STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.

THIS VEHICLE CONFORMS TO ALL APPLICABLE STANDARDS PRESCRIBED UNDER THE CANADIAN MOTOR VEHICLE SAFETY REGULATIONS IN EFFECT ON THE DATE MANUFACTURE/
 CE VEHICULE EST CONFORME A TOUTES LES NORMES QUI LUI SONT APPLICABLES EN VERTU DU REGLEMENT SUR LA SECURITE DES VEHICULES AUTOMOBILES DU CANADA EN VIGUEUR A LA DATE DE SA FABRICATION

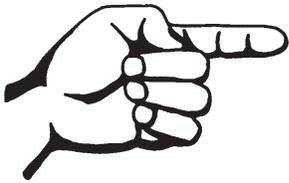
TYPE OF VEHICLE / TYPE DE VEHICULE: TRAILER/REMORQUE

MODEL: RL4000
 SERIAL NUMBER: RL408-1003
 MODEL YEAR: 2008



RL4XXXXX

Serial number is stamped into frame.



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Danger

Failure to obey the instructions and safety rules in this manual and the appropriate Operator's Manual on your machine will result in death or serious injury.

Many of the hazards identified in the operator's manual are also safety hazards when maintenance and repair procedures are performed.

Do Not Perform Maintenance Unless:

- You are trained and qualified to perform maintenance on this machine.
- You read, understand and obey:
 - manufacturer's instructions and safety rules
 - employer's safety rules and worksite regulations
 - applicable governmental regulations
- You have the appropriate tools, lifting equipment and a suitable workshop.

Personal Safety

Any person working on or around a machine must be aware of all known safety hazards. Personal safety and the continued safe operation of the machine should be your top priority.



Read each procedure thoroughly. This manual and the decals on the machine, use signal words to identify the following:



Safety alert symbol—used to alert personnel to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

▲ DANGER

Red—used to indicate the presence of an imminently hazardous situation which, if not avoided, will result in death or serious injury.

▲ WARNING

Orange—used to indicate the presence of a potentially hazardous situation which, if not avoided, could result in death or serious injury.

▲ CAUTION

Yellow with safety alert symbol—used to indicate the presence of a potentially hazardous situation which, if not avoided, may cause minor or moderate injury.

CAUTION

Yellow without safety alert symbol—used to indicate the presence of a potentially hazardous situation which, if not avoided, may result in property damage.

NOTICE

Green—used to indicate operation or maintenance information.



Be sure to wear protective eye wear and other protective clothing if the situation warrants it.



Be aware of potential crushing hazards such as moving parts, free swinging or unsecured components when lifting or placing loads. Always wear approved steel-toed shoes.

Workplace Safety



Be sure to keep sparks, flames and lighted tobacco away from flammable and combustible materials like battery gases and engine fuels. Always have an approved fire extinguisher within easy reach.



Be sure that all tools and working areas are properly maintained and ready for use. Keep work surfaces clean and free of debris that could get into machine components and cause damage.



Be sure that your workshop or work area is properly ventilated and well lit.



Be sure any forklift, overhead crane or other lifting or supporting device is fully capable of supporting and stabilizing the weight to be lifted. Use only chains or straps that are in good condition and of ample capacity.



Be sure that fasteners intended for one time use (i.e., cotter pins and self-locking nuts) are not reused. These components may fail if they are used a second time.



Be sure to properly dispose of old oil or other fluids. Use an approved container. Please be environmentally safe .



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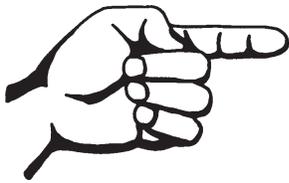
Parts Stocking List

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Required Parts

The following parts are required to perform maintenance procedures as outlined in the *TEREX RL4000 Parts and Service Manuals*.

Description	Part No.
Kubota Models	
Oil Filter	866050
Air Filter	866127
Fuel Filter	839200
V-belt	839209



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How To Order Parts

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Please be prepared with the following information when ordering replacement parts for your TEREX product:

- Machine model number
- Machine serial number
- Terex part number
- Part description and quantity
- Purchase order number
- "Ship to" address
- Desired method of shipment
- Name and telephone number of the authorized TEREX Distributor in your area

Genie Industries

18340 NE 76th Street
P.O. Box 97030
Redmond, WA 98073-9730
Telephone (877) 367-5606
Fax (888) 274-6192
genieindustries.com

Use the Service Parts Fax Order Form on the next page and fax your order to our Parts Department.

If you don't know the name of your authorized distributor, or if your area is not currently serviced by an authorized distributor, please call TEREX Corporation.

Machine Information

Model

Serial Number

Date of Purchase

Authorized TEREX Distributor

Phone Number

**Specifications**

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MAST	
MAST ELEVATION	30' / 9.14M
TOWER ROTATION	359 DEGREES
TOWER ROTATION	MANUAL
MAX WIND RATING	62MPH / 100KPH
DIMENSIONS	
	SEE CHART ON PAGE 2-3
ENGINES	
STANDARD	KUBOTA, D1105 DIESEL, 13.6 HP
GENERATORS	
STANDARD	MARATHON, 6 KW 201CSA5411, 60HZ
OR	LEROY SOMER 36M6, 6KW, 60HZ
STANDARD RECEPTACLES	
	QTY. 1, 120V, 20A, GFI, DUPLEX QTY. 1, 240V, 30A, TWISTLOCK
STANDARD BREAKERS	
	QTY. 4, 1P, 15A, LAMPS QTY. 1, 2P, 30A, MAIN QTY. 1, MINI, 1P, 20A, GFI RECEPTACLE
STANDARD LAMPS	
	SEPARATELY SWITCHED QTY. 4, 1000 WATT METAL HALIDE, ROUND



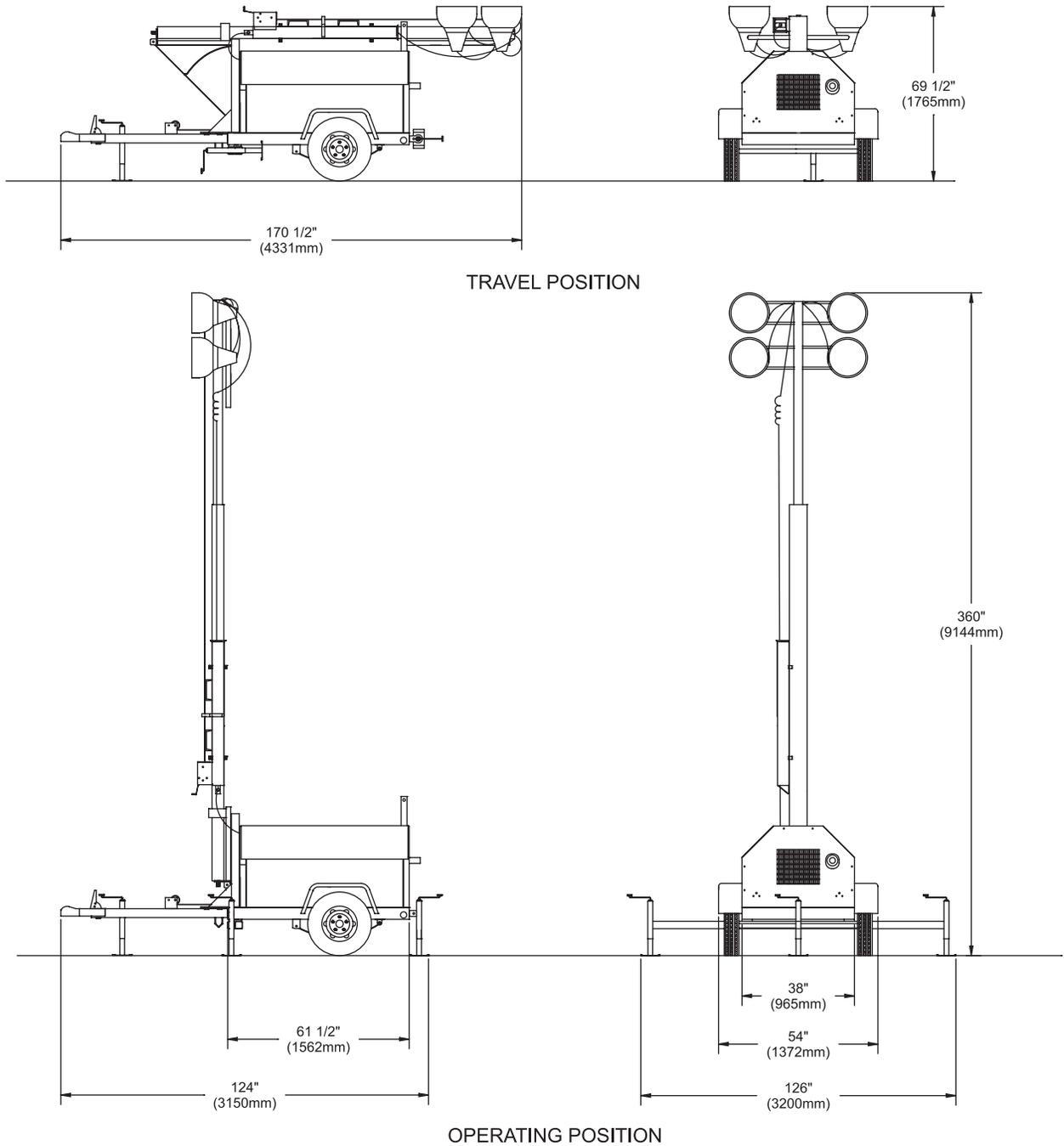
SPECIFICATIONS

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TRAILER	
	WHEELS 13 X 4.5, 5 HOLE TIRES, ST175/80D13, LOAD B COLD PRESSURE, 35PSI / 250KPA AXLE RATING 2000LBS MAX TOW SPEED, 60MPH / 96KPH NO BRAKES, STANDARD TWO OUTRIGGERS, STANDARD
FUEL TANK	
	FUEL TYPE, NO.2 DIESEL ONLY CAPACITY, 30 GALLONS / 114L MATERIAL, POLYETHELENE
FUEL CONSUMPTION	
	KUBOTA, .787 G/HR - 2.97L/HR KUBOTA, RUN TIME, 30 GAL.= 38.3 HRS.
WEIGHT	
	6KW, TOTAL WEIGHT, NO FUEL, 1,725LBS. / 783KG 6KW, TOTAL WEIGHT, TANK FULL, 1,935LBS. / 878KG
TONGUE WEIGHT	
	6KW, 30 GALLON, 199LBS / 91KG WITH FUEL
BATTERY	
	WET, 12V, GROUP 24, 460 CCA, STD-DUTY, LEAD ACID

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SPECIFICATIONS



SAE FASTENER TORQUE CHART											
• This chart is to be used as a guide only unless noted elsewhere in this manual •											
SIZE	THREAD	Grade 5 				Grade 8 				A574 High Strength Black Oxide Bolts	
		LUBED		DRY		LUBED		DRY		LUBED	
		in-lbs	Nm	in-lbs	Nm	in-lbs	Nm	in-lbs	Nm	in-lbs	Nm
1/4	20	100	11.3	80	9	140	15.8	110	12.4	130	14.7
	28	90	10.1	120	13.5	120	13.5	160	18	140	15.8
		LUBED		DRY		LUBED		DRY		LUBED	
		ft-lbs	Nm	ft-lbs	Nm	ft-lbs	Nm	ft-lbs	Nm	ft-lbs	Nm
5/16	18	13	17.6	17	23	18	24	25	33.9	21	28.4
	24	14	19	19	25.7	20	27.1	27	36.6	24	32.5
3/8	16	23	31.2	31	42	33	44.7	44	59.6	38	51.5
	24	26	35.2	35	47.4	37	50.1	49	66.4	43	58.3
7/16	14	37	50.1	49	66.4	50	67.8	70	94.7	61	82.7
	20	41	55.5	55	74.5	60	81.3	80	108.4	68	92.1
1/2	13	57	77.3	75	101.6	80	108.4	110	149	93	126
	20	64	86.7	85	115	90	122	120	162	105	142
9/16	12	80	108.4	110	149	120	162	150	203	130	176
	18	90	122	120	162	130	176	170	230	140	189
5/8	11	110	149	150	203	160	217	210	284	180	244
	18	130	176	170	230	180	244	240	325	200	271
3/4	10	200	271	270	366	280	379	380	515	320	433
	16	220	298	300	406	310	420	420	569	350	474
7/8	9	320	433	430	583	450	610	610	827	510	691
	14	350	474	470	637	500	678	670	908	560	759
1	8	480	650	640	867	680	922	910	1233	770	1044
	12	530	718	710	962	750	1016	990	1342	840	1139
1.125	7	590	800	790	1071	970	1315	1290	1749	1090	1477
	12	670	908	890	1206	1080	1464	1440	1952	1220	1654
1.25	7	840	1138	1120	1518	1360	1844	1820	2467	1530	2074
	12	930	1260	1240	1681	1510	2047	2010	2725	1700	2304
1.5	6	1460	1979	1950	2643	2370	3213	3160	4284	2670	3620
	12	1640	2223	2190	2969	2670	3620	3560	4826	3000	4067

METRIC FASTENER TORQUE CHART																
• This chart is to be used as a guide only unless noted elsewhere in this manual •																
Size (mm)	Class 4.6 				Class 8.8 				Class 10.9 				Class 12.9 			
	LUBED		DRY		LUBED		DRY		LUBED		DRY		LUBED		DRY	
	in-lbs	Nm	in-lbs	Nm	in-lbs	Nm	in-lbs	Nm	in-lbs	Nm	in-lbs	Nm	in-lbs	Nm	in-lbs	Nm
5	16	1.8	21	2.4	41	4.63	54	6.18	58	6.63	78	8.84	68	7.75	91	10.3
6	19	3.05	36	4.07	69	7.87	93	10.5	100	11.3	132	15	116	13.2	155	17.6
7	45	5.12	60	6.83	116	13.2	155	17.6	167	18.9	223	25.2	1.95	22.1	260	29.4
	LUBED		DRY		LUBED		DRY		LUBED		DRY		LUBED		DRY	
	ft-lbs	Nm	ft-lbs	Nm	ft-lbs	Nm	ft-lbs	Nm	ft-lbs	Nm	ft-lbs	Nm	ft-lbs	Nm	ft-lbs	Nm
8	5.4	7.41	7.2	9.88	14	19.1	18.8	25.5	20.1	27.3	26.9	36.5	23.6	32	31.4	42.6
10	10.8	14.7	14.4	19.6	27.9	37.8	37.2	50.5	39.9	54.1	53.2	72.2	46.7	63.3	62.3	84.4
12	18.9	25.6	25.1	34.1	48.6	66	64.9	88	69.7	94.5	92.2	125	81	110	108	147
14	30.1	40.8	40	54.3	77.4	105	103	140	110	150	147	200	129	175	172	234
16	46.9	63.6	62.5	84.8	125	170	166	226	173	235	230	313	202	274	269	365
18	64.5	87.5	86.2	117	171	233	229	311	238	323	317	430	278	377	371	503
20	91	124	121	165	243	330	325	441	337	458	450	610	394	535	525	713
22	124	169	166	225	331	450	442	600	458	622	612	830	536	727	715	970
24	157	214	210	285	420	570	562	762	583	791	778	1055	682	925	909	1233



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Scheduled Maintenance Procedures



Observe and Obey:

- ☑ Maintenance inspections shall be completed by a person trained and qualified on the maintenance of this machine.
- ☑ Scheduled maintenance inspections shall be completed as specified using the supplied *Lubrication and Maintenance Service Interval Charts* provided in this section.

AWARNING Failure to perform each procedure as presented and scheduled could result in death, serious injury or substantial damage.

- ☑ Immediately tag and remove from service a damaged or malfunctioning machine.
- ☑ Repair any machine damage or malfunction before operating the machine.
- ☑ Keep records on all inspections for three years.
- ☑ Machines that have been out of service for a period longer than 3 months must complete the quarterly inspection.
- ☑ Unless otherwise specified, perform each maintenance procedure with the machine in the following configuration:
 - Machine parked on a firm, level surface
 - Toggle switch in the "OFF" position
 - Wheels chocked

About This Section

This section contains detailed procedures for each scheduled maintenance inspection.

Each procedure includes a description, safety warnings and step-by-step instructions.

Symbols Legend



Safety alert symbol—used to alert personnel to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER

Red—used to indicate the presence of an imminently hazardous situation which, if not avoided, will result in death or serious injury.

AWARNING

Orange—used to indicate the presence of a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

Yellow with safety alert symbol—used to indicate the presence of a potentially hazardous situation which, if not avoided, may cause minor or moderate injury.

CAUTION

Yellow without safety alert symbol—used to indicate the presence of a potentially hazardous situation which, if not avoided, may result in property damage.

NOTICE

Green—used to indicate operation or maintenance information.

- ⊙ Indicates that a specific result is expected after performing a series of steps.
- ⊗ Indicates that an incorrect result has occurred after performing a series of steps.

Pre-Delivery Preparation

Fundamentals

It is the responsibility of the dealer to perform the Pre-delivery Preparation.

The Pre-delivery Preparation is performed prior to each delivery. The inspection is designed to discover if anything is apparently wrong with a machine before it is put into service.

A damaged or modified machine must never be used. If damage or any variation from factory delivered condition is discovered, the machine must be tagged and removed from service.

Repairs to the machine may only be made by a qualified service technician, according to the manufacturer's specifications.

Scheduled maintenance inspections shall be performed by qualified service technicians, according to the manufacturer's specifications and the requirements listed in the responsibilities manual.

Instructions

Use the operator's manual on your machine.

The Pre-delivery Preparation consists of completing the Pre-operation Inspection, the Maintenance items and the Function Tests.

Use this form to record the results. Place a check in the appropriate box after each part is completed. Follow the instructions in the operator's manual.

If any inspection receives an N, remove the machine from service, repair and re-inspect it. After repair, place a check in the R box.

Legend

Y = yes, completed

N = no, unable to complete

R = repaired

Comments

Pre-Delivery Preparation	Y	N	R
Pre-operation inspection completed			
Maintenance items completed			
Function tests completed			

Model

Serial number

Date

Machine owner

Inspected by (print)

Inspector signature

Inspector title

Inspector company



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Rock Hill, SC 29732 USA
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Rev B



Maintenance Schedules

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Kubota Lubrication and Maintenance Service Intervals

ITEM	Every 50 Hours	Every 100 Hours	Every 200 Hours	Every 400 Hours	Every 500 Hours	Every Year	Every 800 Hours	Every 1500 Hours	Every 3000 Hours	Every Two Years
Check of fuel pipes and clamp bands	•									
Check engine oil and coolant level	•									
Cleaning of air cleaner element		•								
Check of battery electrolyte level		•								
Check of fan belt tightness		•								
Check of radiator hoses and clamp bands			•							
Check of intake air line			•							
Replacement of oil filter cartridge				•						
Replacement of fuel filter cartridge				•						
Removal of sediment in fuel tank					•					
Cleaning of water jacket (radiator interior)					•					
Replacement of fan belt					•					
Replacement of air cleaner element						•				
Check of damage in electric wiring and loose connections						•				
Check of valve clearance							•			
Check of fuel injection nozzle injection pressure								•		
Check of turbo charger									•	
Check of injection pump									•	
Check of injection timer									•	
Change of radiator coolant (L.L.C.)										•
Replacement of battery										•
Replacement of radiator hoses and clamp bands										•
Replacement of fuel pipes and clamp bands										•
Replacement of intake air line										•

*Refer to the manufacturer's manuals for detailed maintenance intervals and instructions. If the information in the manufacturer's manual differs from that in this manual the manufacturer's manual should take precedence.