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SAFE OPERATION

Careful operation is your best insurance against an accident.

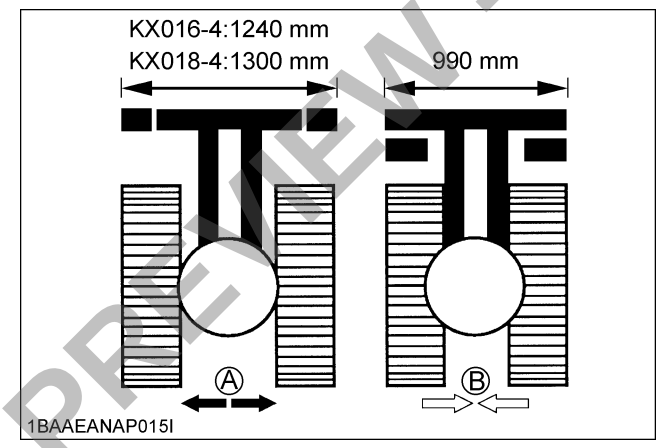
Read and understand this manual carefully, before operating the excavator.

Every user, however experienced, should carefully read and understand this manual and those of the attachments and accessories before operating the excavator. The owner is obliged to inform all operators of these instructions in detail.

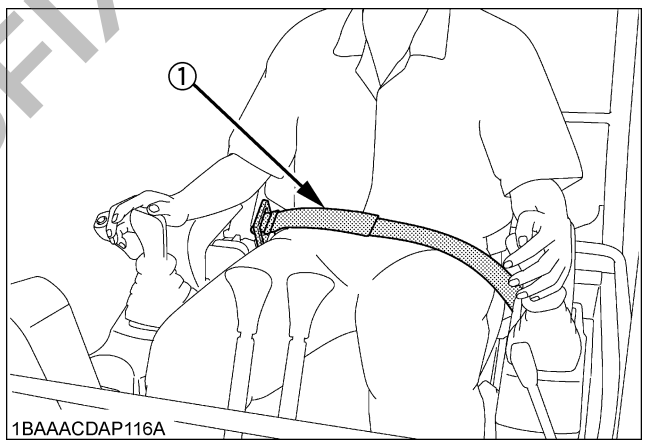
Keep this manual in the storage location. (See "Where to keep Operator's Manual" in "MAINTENANCE" section.)

1. BEFORE OPERATION

1. Know your equipment and its limitations. Read and understand this entire manual before attempting to start and operate the excavator.
2. Obey the danger, warning and caution labels on the machine.
3. Track can be set at the narrow width (990 mm) or the standard width (KX016-4 : 1240 mm, KX018-4 : 1300 mm).
   (for details see "OPERATION OF TRACK WIDTH CHANGES")
   To change the track width, set the track width fully, standard or narrow width.
   If not, the excavator may unintentionally move.



4. For your safety, a ROPS/OPG (Roll-Over Protective Structure, Operator Protective Guards(top guard).) with a seat belt is installed by KUBOTA. Always use the seat belt when the machine is equipped with a ROPS/OPG as this combination will reduce the risk of serious injury or death, should the excavator be upset or falling objects occur.
   Do not modify any structural members of the ROPS/OPG by welding, drilling, bending, grinding or cutting, as this may weaken the structure. If any component is damaged, replace it. Do not attempt repairs. If the ROPS/OPG is loosened or removed for any reason, make sure all parts are reinstalled correctly. Tighten mounting bolts to proper torque.
5. ROPS/OPG structure complies with ISO 3471, ISO 3449 and OSHA regulations.
6. The seat belt must be inspected regularly and replaced if frayed or damaged.



(1) Seat belt

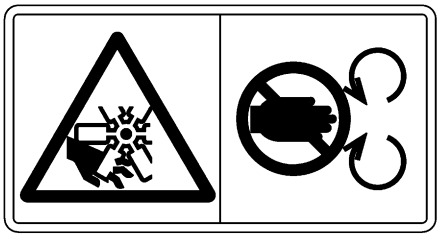
7. Always sit in the operator's seat when starting engine or operating levers or controls.

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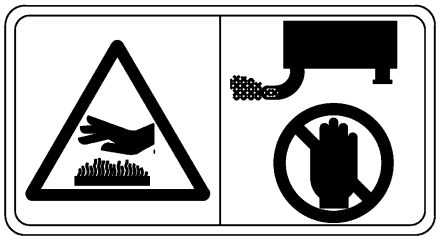
DANGER, WARNING AND CAUTION LABELS

(1) Part No. RG158-5726-1
Keep away from fan and fan belt.



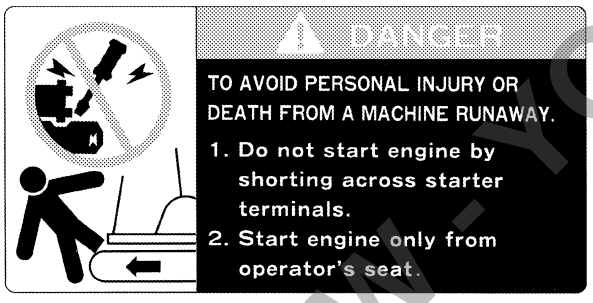
1BAAACDAP2050

(2) Part No. RG158-5721-1
Do not touch hot parts such as exhaust etc.



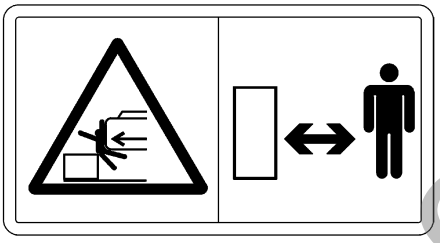
1BAAACDAP2060

(3) Part No. RG158-5718-1



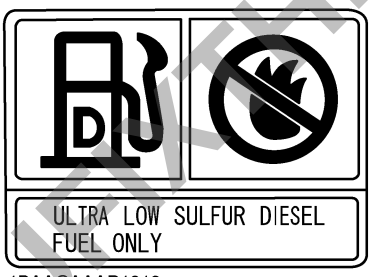
1BAAGAAAP0250

(4) Part No. RG158-5727-1
Do not allow any persons within the working range.

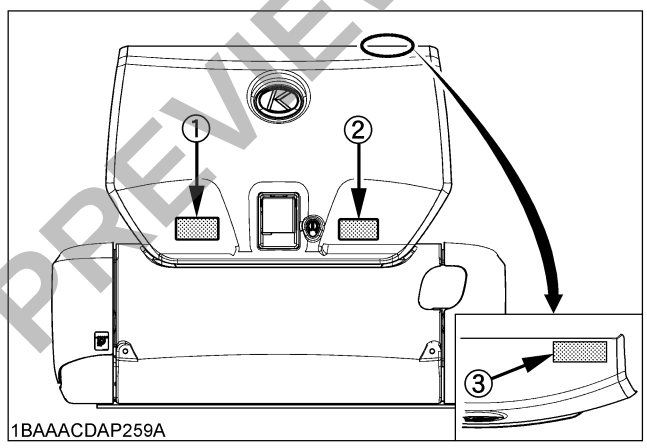


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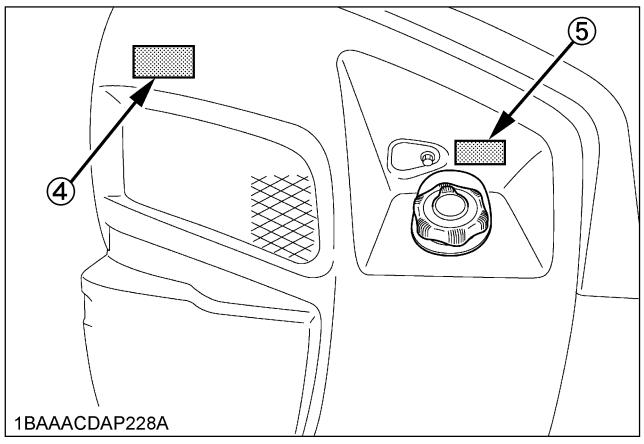
(5) Part No. RG158-5737-1
Diesel fuel only No fire



1BAAGAAAP1810



1BAAACDAP259A

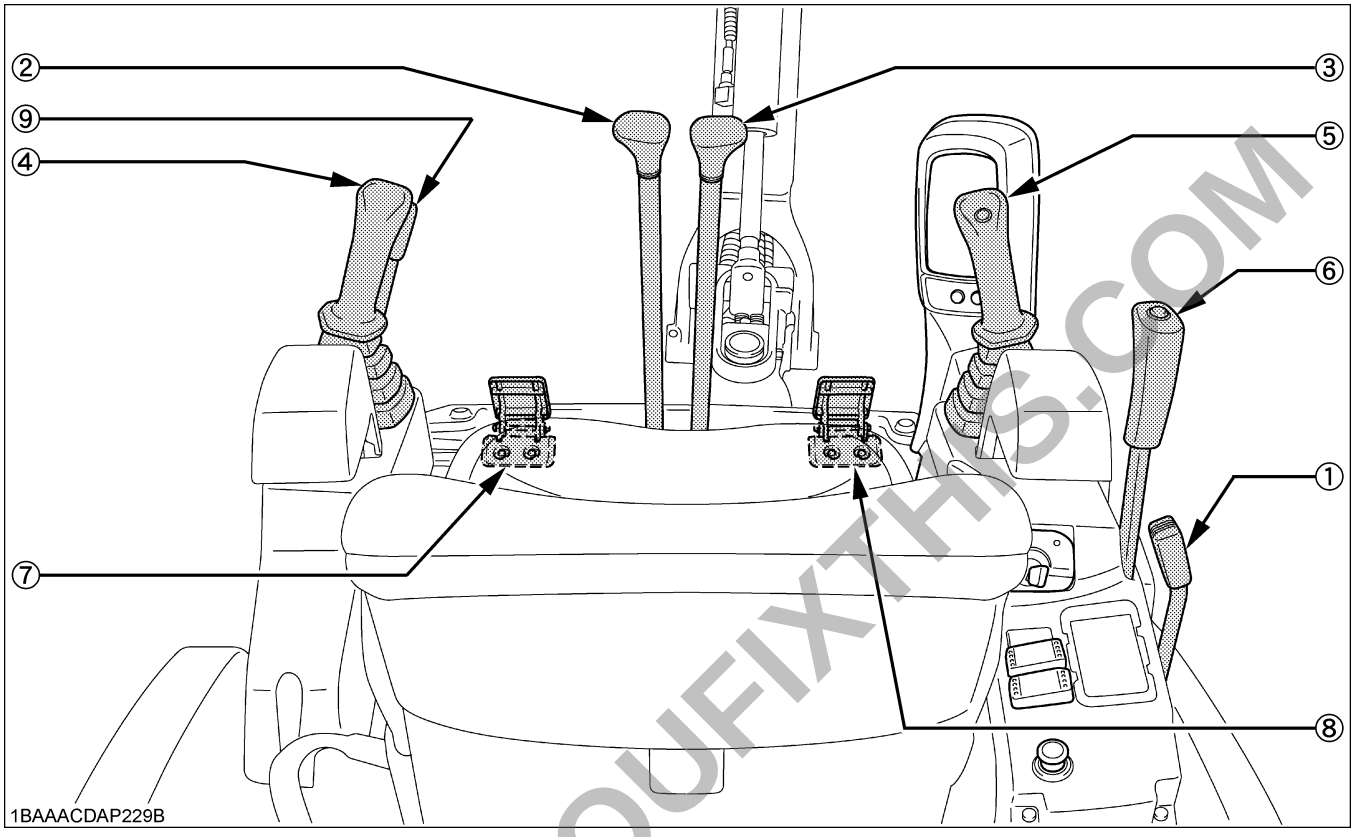


1BAAACDAP228A

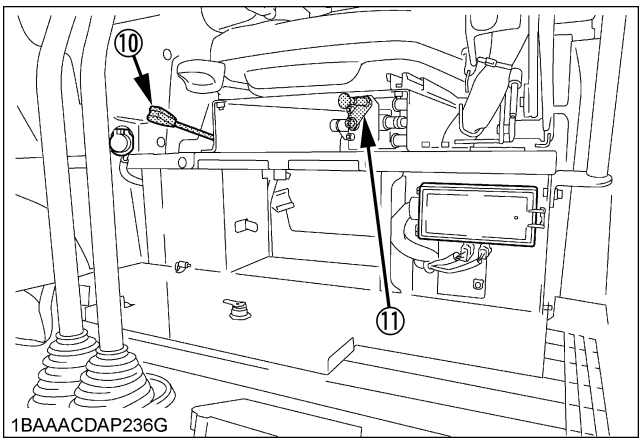
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■ Control Pedals and Levers



DEPICTED CONTENTS
(1) Throttle lever
(2) Drive lever (left)
(3) Drive lever (right)
(4) Attachment control lever (left)
(5) Attachment control lever (right)
(6) Dozer control lever
(7) AUX port pedal
(8) Boom swing pedal
(9) Lock lever (Unload lever)*
(10) Track width change lever
(11) TPSS lever



IMPORTANT :
* When the lock lever (unload lever) is pulled up, it prevents inadvertent machine movement.

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TECHNICAL DATA

			KUBOTA EXCAVATOR	
Model name			KX016-4	KX018-4
Type			canopy	
Mass (without operator) kg			1490	1620
Standard bucket	Volume (CECE) m^3		0.035	0.040
	Width [with side cutter] mm		402 [422]	450 [474]
	Weight kg		32.5	33.5
Engine	Type (water cooled 4 cycle Diesel)		3 cylinder - diesel engine water cooled	
	Model name		D782-BH-5	D902-BH-2
	Total displacement cm^3		778	898
	Output (ISO 9249) kW (Hp)		9.6 (12.9)	11.8 (15.8)
	Rated speed rpm		2300	
Performance	Swing speed rpm		9.1	
	Travel speed	fast km/h	3.8	4.0
		slow km/h	2.1	2.2
	Ground pressure kPa (kgf/cm^2)		25.5 (0.26)	25.5 (0.26)
	Climbing angle % (deg)		27 (15)	
	Max. lateral sway % (degree)		18 (10)	
Dozer (width & height) mm			990 / 1240 x 230	990 / 1300 x 230
Boom swing angle		Left rad (deg)	1.31 (75)	
		Right rad (deg)	1.05 (60)	
Pressure connection for attachments	Max. displacement L (US gal) / min		27	27.7
	Max. pressure MPa (kgf/cm^2)		20.6 (210)	21.6 (220)
Fuel tank capacity L			21	

NOTE :

- Above dimensions are based on the machine with JPN bucket.
  JPN = made in Japan
- Above dimensions are based on the machine with rubber crawlers.
- Specifications subject to change without notice.

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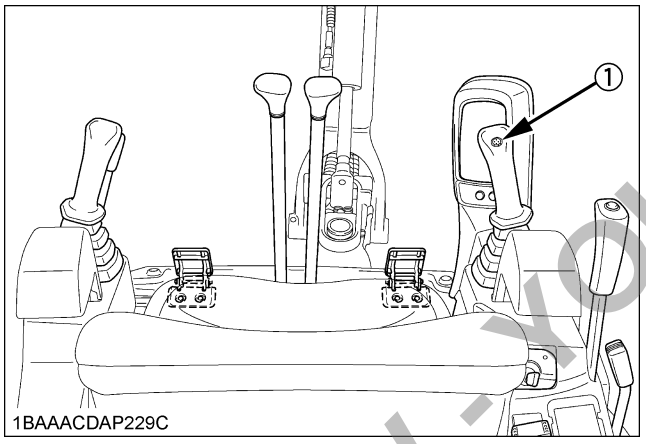
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OPERATION OF THE ENGINE

CAUTION

To avoid personal injury:

- **Read "SAFE OPERATION" at the beginning of this operator's manual.**
- **Obey the danger, warning and caution labels on the excavator.**
- **To avoid the danger of exhaust fume poisoning, do not operate the machine in a closed building without proper ventilation.**
- **Always start the engine from the operator's seat. Do not start the engine while standing next to the excavator. Before starting the engine, sound the horn to get the attention of persons standing nearby.**



1BAAACDAP229C

(1) Horn switch

IMPORTANT :

- Do not use starting fluid or ether.
- In order not to overload the battery and starter, avoid start-ups of more than 10 sec.
- When engine does not start in 10 sec., please wait 20 sec. or more, before attempting to restart.

STARTING THE ENGINE

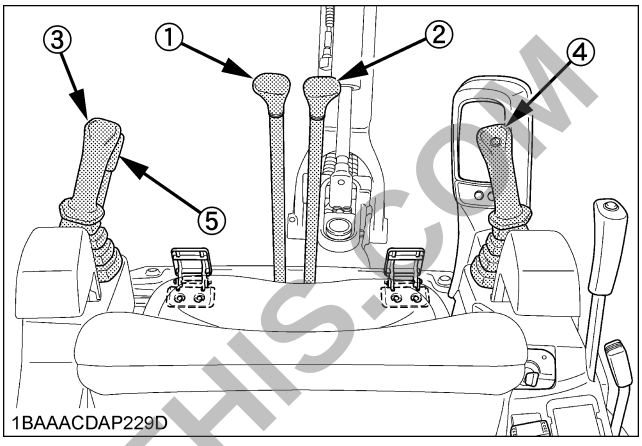
CAUTION

To avoid personal injury:

- **The operator should not depend solely on the warning lamps, but should always conduct the routine checks (see "MAINTENANCE").**

Start the engine in the following manner:

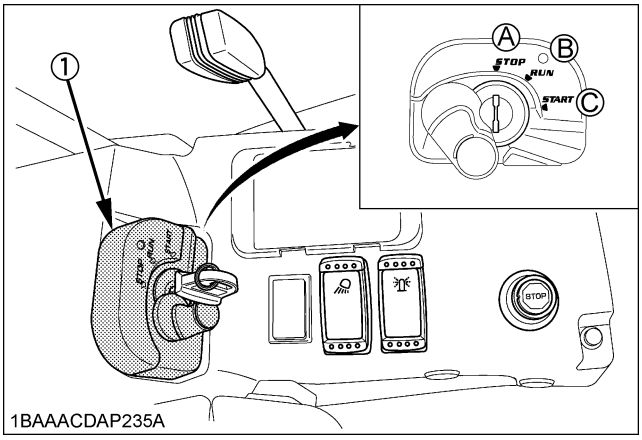
1. Before starting the engine, make sure that all control levers are in the neutral positions.



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(1) Drive lever (left)
(2) Drive lever (right)
(3) Attachment control lever (left)
(4) Attachment control lever (right)
(5) Lock lever (Unload lever)

2. Pull the lock lever (unload lever) all the way back. (lock position)
3. Put the throttle lever backward .
4. Insert the key into the starter switch and turn it to the position "Run". The glow lamp indicator will light up while the engine is preheated and will go out automatically after preheating is finished.



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(1) Starter switch
(A) "STOP"
(B) "RUN"
(C) "START"

5. Turn the key to the position "START" and release after the engine has started.
6. Check if engine oil pressure warning lamp and battery charge lamp have gone out. Should a warning lamp still be lit up, stop the engine then remove the key and check for the cause.

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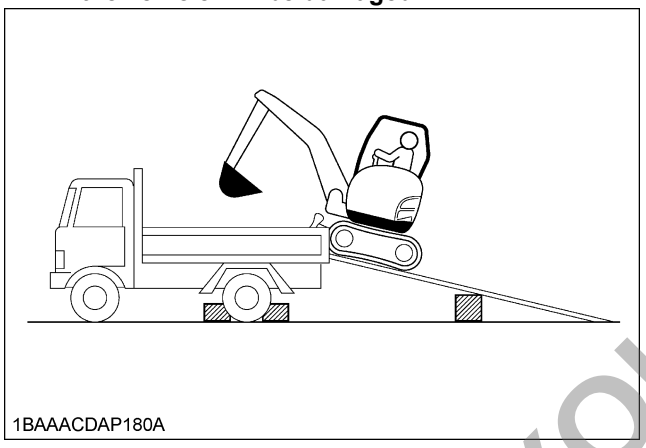
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TRANSPORTING THE EXCAVATOR ON A VEHICLE

DANGER

To avoid personal injury or death:

- **No directional changes should be made when the excavator is on the ramp. Should a change of direction be necessary, drive off the ramp completely and make the turn.**
- **When driving forward or backward onto the vehicle, or when swinging the upper body, make sure that neither the CAB or the gates of the vehicle will be damaged.**



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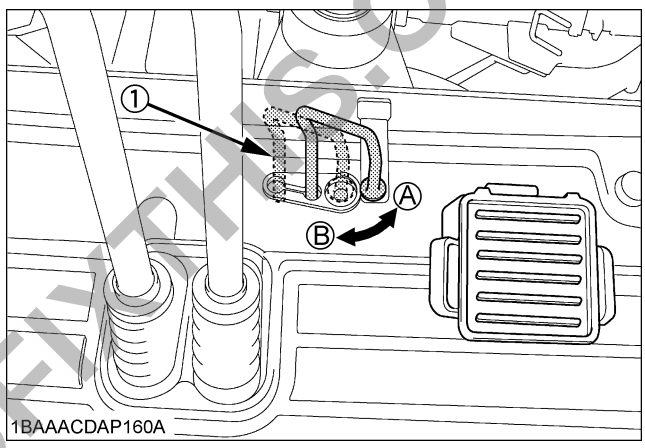
- **When the excavator reaches the point between the ramps and the bed, halt and then move very slowly until the excavator reaches the horizontal position.**
- **Move the excavator onto the vehicle only with the arm completely pulled in. Otherwise the CAB of the vehicle could be damaged when swinging around the upper body.**
- **Do not jack up the machine using its boom to load or unload the excavator from the vehicle. Doing this is dangerous.**
- **Make sure the ramp are of sufficient capacity and securely connected to the vehicle to safety support the machine throughout the loading / unloading operation.**

■ Transporting on a truck

WARNING

To avoid personal injury or death:

- **After loading the machine on the truck, lower the bucket and dozer onto the truck bed. Lock the swing frame with the swing lock pin.**

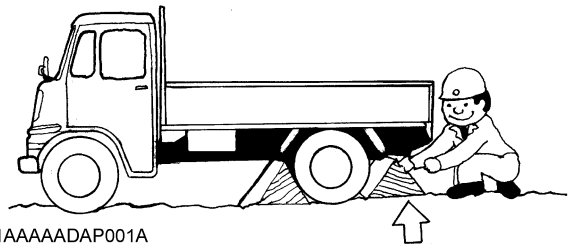


1BAAACDAP160A

(1) Swing lock pin
(A) "Unlock"
(B) "Lock"

Prepare a platform to load or unlock the excavator.
Take following steps when using ramps.

1. Apply the parking brakes of the vehicle, and block the drive wheels from both sides.



1AAAAADAP001A

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MAINTENANCE INTERVALS

No.	Check points		Measures	Hour meter indicator									Interval	Ref. page		
				50	100	150	200	250	300	350	400	450				
1	Coolant		check	Daily check										40		
			change										every 2 years	54		
2	Fuel		check	Daily check										40		
3	Engine oil		check	Daily check										41		
			change	◉					○				every 250 hrs	48		
4	Hydraulic oil		check	Daily check										42		
			change										every 1000 hrs	52	*1	
5	Lubrication points		-	Daily check										43		
6	Radiator and oil cooler		check	Daily check										44		
7	Engine and electrical wiring		check	Daily check										44		
8	Fuel tank, Water separator		drain	○	○	○	○	○	○	○	○	○	every 50 hrs	45, 45		
9	Battery condition		check	○	○	○	○	○	○	○	○	○	every 50 hrs	46		
10	Greasing swing bearing teeth		-	○	○	○	○	○	○	○	○	○	every 50 hrs	47		
11	Fan belt tension		check	Daily check										44		
			adjust				○				○		every 200 hrs	49		
12	Radiator hoses and clamps		check				○				○		every 200 hrs	47		
			replace										every 2 years	54		
13	Air filter element	Outer element	clean				○				○		every 200 hrs	47	*2	@
			replace										every 1000 hrs	53	*2	
		Inner element	replace										every 1000 hrs	53	*2	
14	Greasing swing ball bearing		-				○				○		every 200 hrs	48		
15	Engine oil filter		replace	◉					○				every 250 hrs	49		
16	Fuel filter element		replace										every 500 hrs	50		@
17	Drive unit oil		change	◉									every 500 hrs	50		
18	Hydraulic return filter element		replace					◉					every 500 hrs	51		
19	Hydraulic suction filter element		replace										every 1000 hrs	52		
20	Fuel injection nozzle injection pressure		check										every 1500 hrs	53	*4	@
21	Front idler and track roller oil		change										every 2000 hrs	53		
22	Alternator and starter motor		check										every 2000 hrs	53		
23	Injection pump		check										every 3000 hrs	53	*4	@
24	Radiator system		rinse										every 2 years	54		
25	Fuel line and Intake air line		check				○				○		every 200 hrs	48		@
			replace										every 2 years	55	*3	

∗ 500 thru 1000 continued to the following table.

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