SAFETY FIRST

This symbol, the industry's "Safety Alert Symbol", is used throughout this manual and on labels on the machine itself to warn of the possibility of personal injury. Read these instructions carefully. It is essential that you read the instructions and safety regulations before you attempt to assemble or use this unit.

DANGER : Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING : Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

IMPORTANT : Indicates that equipment or property damage could result if instructions are not followed.

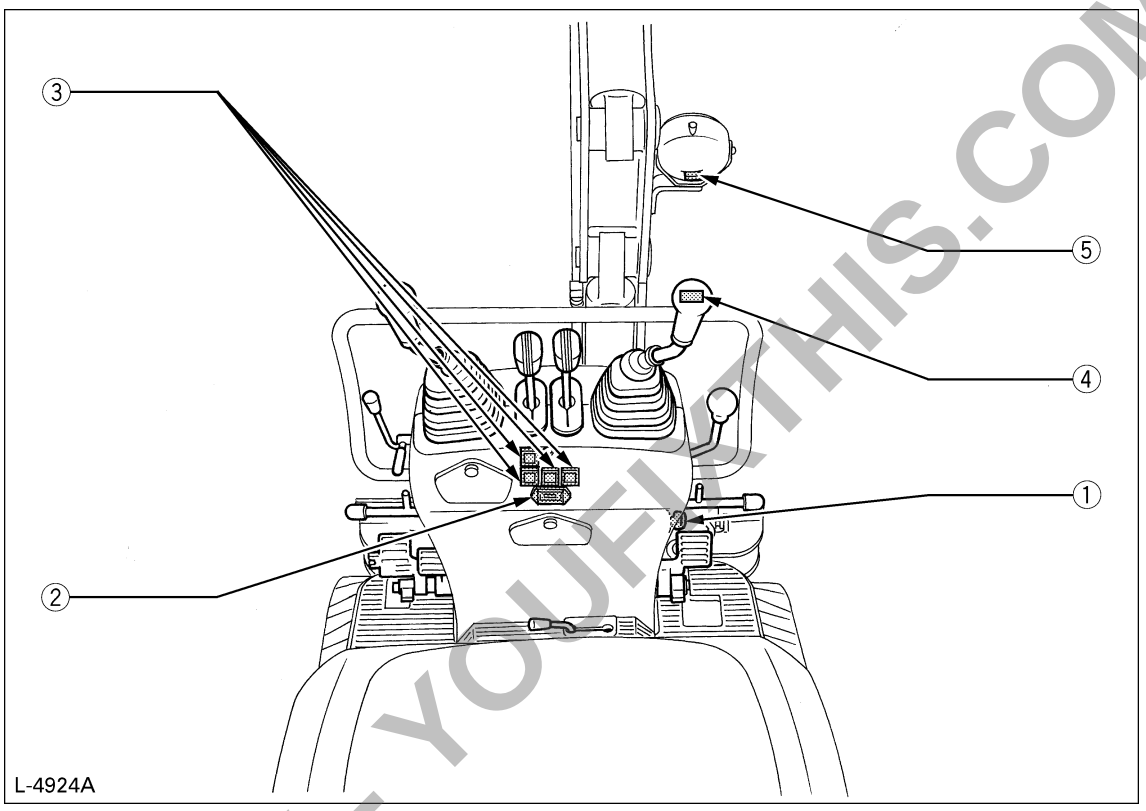
NOTE : Gives helpful information.

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INSTRUMENT PANEL AND CONTROL ELEMENTS

■ Instrument Panel, Switches



DEPICTED CONTENTS
(1) Starter switch
(2) Hour meter
(3) Alarm lamp
(4) Horn switch
(5) Working light switch

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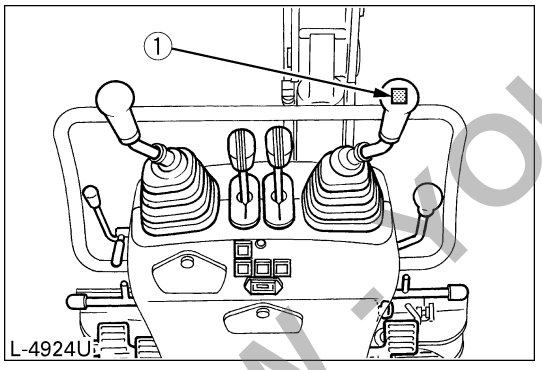
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OPERATION OF THE ENGINE

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.**
- **Exhaust gases are poisonous. Do not let the engine run in closed quarters without sufficient and adequate 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.**



(1) Horn switch

IMPORTANT :

- Do not use start help spray or similar fluids.
- In order not to overload the battery and starter, avoid start-ups of more than 10 sec.
- When the engine does not start in 10 sec., please set the interval to 20 sec. or more, and restart.

STARTING THE ENGINE

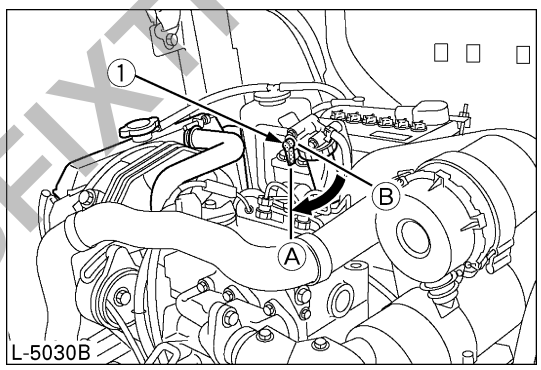
CAUTION

To avoid personal injury:

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

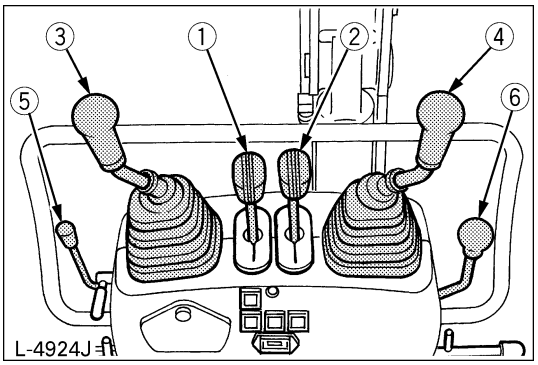
Start the engine in the following manner:

1. Make sure that the fuel cock is in the "Open" position.



(1) Fuel cock *(A) "Open"* *(B) "Closed"*

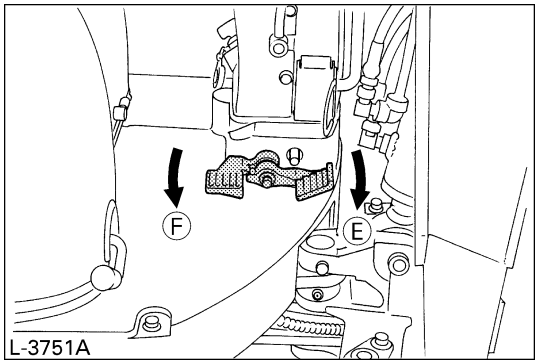
2. Before starting the engine, make sure that all control levers are in the neutral positions.

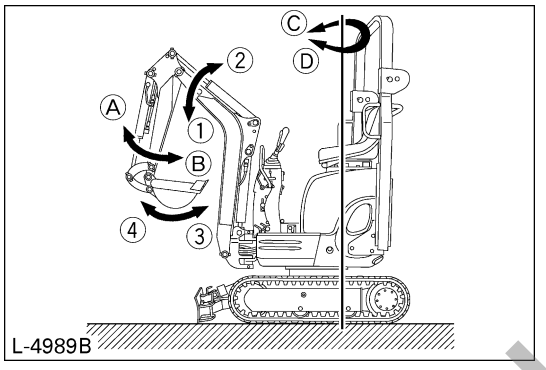


(1) Drive lever (left)
(2) Drive lever (right)
(3) Attachment control lever (left)
(4) Attachment control lever (right)
(5) Throttle lever
(6) Control lever for dozer or track width

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Lever position		Movement	
		Pattern A (JD)	Pattern B (ISO)
Left Front Attachment Control Lever	A	Boom lower	Arm out
	B	Boom raise	Arm in
	*C	Swivel to left	Swivel to left
	*D	Swivel to right	Swivel to right
Right Front Attachment Control Lever	1	Arm out	Boom lower
	2	Arm in	Boom raise
	3	Bucket dig	Bucket dig
	4	Bucket dump	Bucket dump

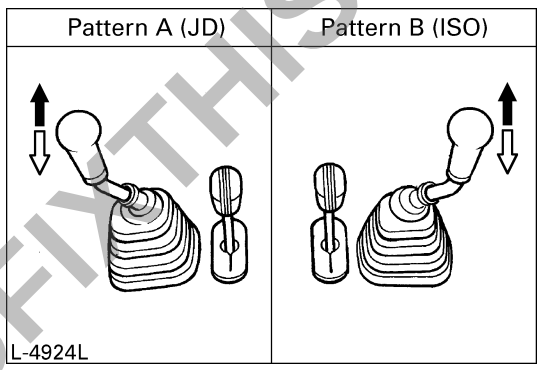
***NOTE:**

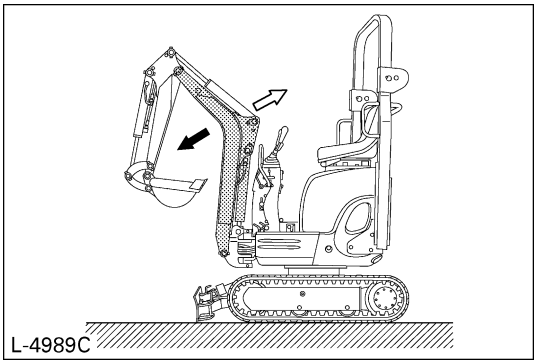
- See "SWIVEL MOVEMENT AND SWING MOVEMENT".

OPERATION OF THE BOOM

To raise the boom, pull the attachment control lever back.

The boom is equipped with a cushion cylinder which prevents excavated material in the bucket from fall-in out. By low hydraulic oil temperature, (e.g. right after starting the engine) the cushioning function will only be effected after a certain delay (approx. 3 to 5 seconds). This condition results from the viscosity of the hydraulic oil and is no sign of a malfunction.





IMPORTANT :

- When lowering the boom, make sure that it does not hit the dozer and that the bucket teeth do not touch the dozer.

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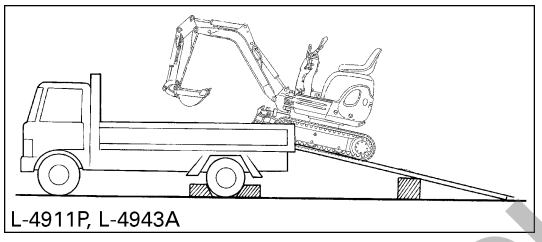
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TRANSPORTING THE EXCAVATOR ON A TRUCK

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 forwards or backwards onto the truck, or when swinging the upper body, make sure that neither the cabin or the gates of the truck will be damaged.**



L-4911P, L-4943A

- **When the excavator reaches the point between the ramps and the truck bed, halt and then move very slowly until the excavator reaches the horizontal position.**
- **Move the excavator onto the truck only with the arm completely pulled in. Otherwise the truck cabin could be damaged when swinging the upper body around.**
- **Do not jack up the machine using its boom to load or unload the excavator from the truck. Dangerous situation could arise.**

■ Transporting on a Truck

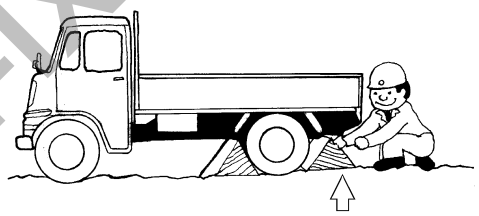
WARNING

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.**

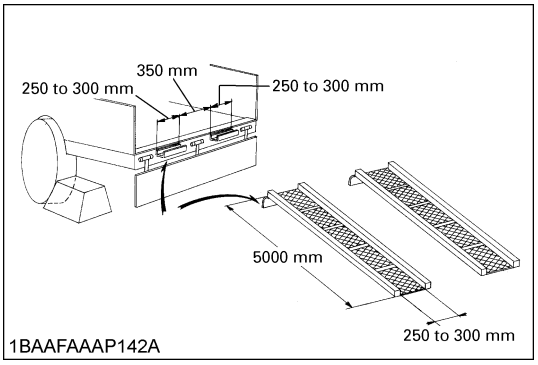
Prepare a platform to load or unload the excavator. Take following steps when using ramps.

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



L-0039A

2. Use fixing plates to secure the ramp properly. Connect the ramps directly with the truck bed.



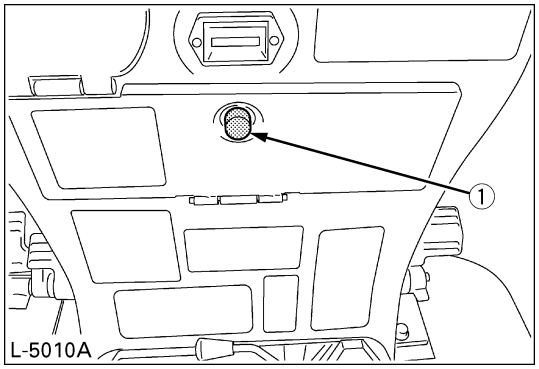
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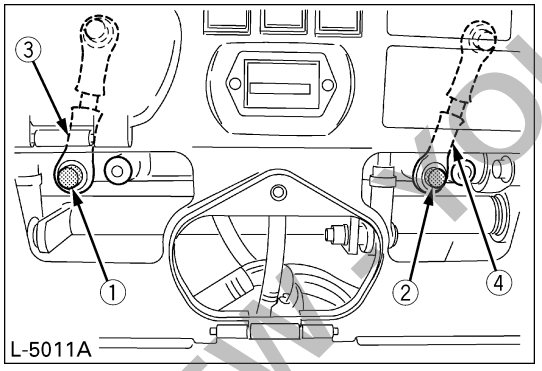
◆ **Pattern Change**
Switching from [Pattern A] to [Pattern B]

1. Stop the engine and place the front attachment on the ground. Release pressure out of the cylinders.
2. Turn the knob on the control box to open the cover.



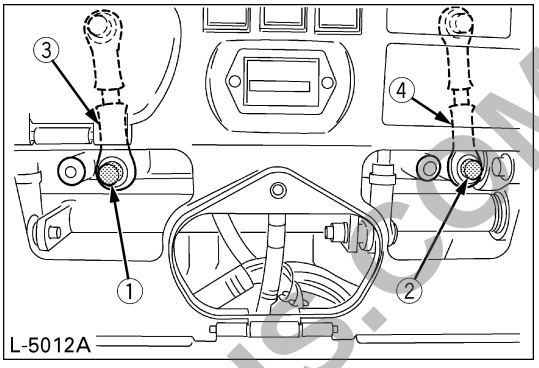
(1) Knob

3. Remove the bolts (1) and (2).



(1) Bolt1
(2) Bolt2
(3) Joint (C)
(4) Joint (D)

4. Shift the joints (C) and (D) to the right, and apply and tighten up the bolts (1) and (2).



(1) Bolt1
(2) Bolt2
(3) Joint (C)
(4) Joint (D)

CAUTION

To avoid personal injury:

- **The bolts (1) and (2) are of special type. Do not use general bolts, because otherwise the machine may malfunction and get damaged.**

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TECHNICAL DATA

			KUBOTA EXCAVATOR
Model name			K008-3
Type			Rubber tracks
Machine weight		kg	920
Standard bucket	Volume (CECE)	m^3	0.022
	Width	mm	350
Engine	Type		Water cooled 3 cylinder Diesel
	Model name		KUBOTA D722-EBH
	Total displacement	m^3	719
	Engine power	HP (kW)	10.2 (7.4)
	Rated speed	rpm	2050
Performance	Swing speed	rpm	8.3
	Travel speed	km/h	2.0/4.0
	Ground pressure	Mpa (kgf/cm^2)	0.024 (0.24)
	Climbing angle	% (deg)	27 (15)
Dozer (width & height)		mm	700 x 200 860 x 200
Boom swing angle	Left	rad (deg)	0.96 (55)
	Right	rad (deg)	1.05 (60)
Pressure connection for attachments	Displacement	L/min	21.0
	Max. pressure	Mpa (kgf/cm^2)	16.67 (170)
Fuel tank capacity		L	12

NOTE :

- Above dimensions are based on the machine with JPN bucket.
  JPN = made in Japan

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MAINTENANCE

MAINTENANCE INTERVALS

No.	Check points	Intervals	Hour meter indicator													Conse-quently	Ref. page	
			50	100	150	200	250	300	350	400	450	500	550	600	1000	2000		
1	Fuel	Check	Daily check														47	
2	Engine oil	Check	Daily check														48	
		Change	○		○		○		○		○		○				every 100 hrs	56	
3	Hydraulic oil**	Check	Daily check														48	
		Change													○	○	every 1000 hrs	57,58	
4	Coolant	Check	Daily check														46	
		Change															every 2 years	59	
5	Lubrication points	Check	Daily check														49	
6	Radiator	Check	Daily check														50	
7	Battery condition	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 hrs	53	
8	Electrical lines	Check	Daily check, Annual servicing														50,59	
9	Greasing of swing bearing teeth	---	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 hrs	53	
10	Fan belt tension	adjust				○				○				○	○	○	every 200 hrs	53	
11	Radiator hoses and clamps	Check				○				○				○	○	○	every 200 hrs	54	
		Change															every 2 years	59	
12	Air filter element*	Clean				○				○				○	○	○	every 200 hrs	54,55	@
		Change													○	○	every 1000 hrs	58	
13	Greasing of swing ball bearings					○				○				○	○	○	every 200 hrs	55	
14	Fuel pipes and hoses	Check				○				○				○	○	○	every 200 hrs	---	
		Change															every 2 years	60	
15	Engine oil filter	Change	○				○				○						every 200 hrs	56	

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