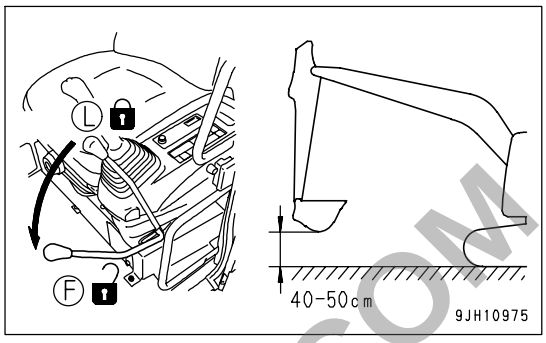
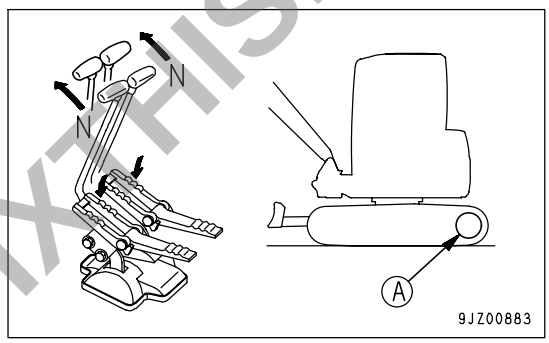
Moving Machine Forward

1. Set lock lever (2) to the FREE position (F), then raise the work equipment 40 to 50 cm (16 to 20 in) from the ground.

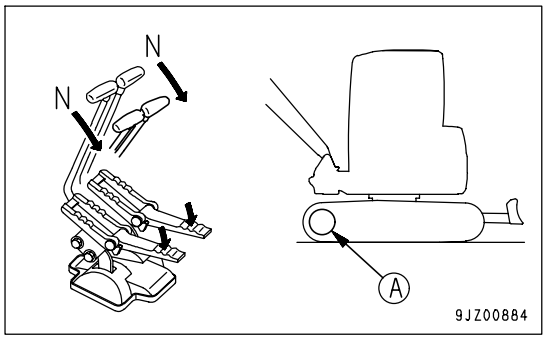


2. Raise the blade.
3. Operate right and left travel control levers (3) or right and left travel pedals (4) in the following manner.

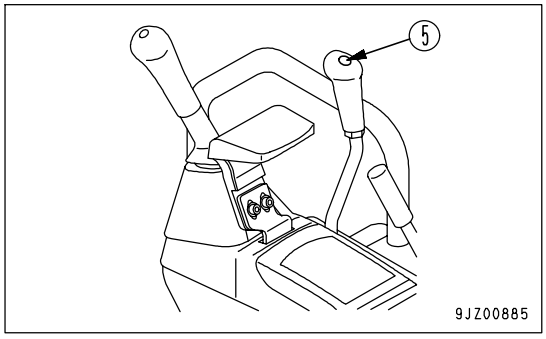
- When sprocket (A) is situated at the rear of the machine;
  Start the machine either by pushing lever (3) forward slowly or by stepping on the front part of pedal (4) slowly.



- When sprocket is situated at the front of the machine;
  Start the machine either by pulling lever (3) back slowly or by stepping on the rear part of pedal (4) slowly.



4. Switch the travel speed as follows.
   - When the travel speed selector switch (5) is pressed, the travel speed can be switched between high speed and low speed.
     Each time the switch is pressed, the travel speed is switched between low speed and high speed.



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MAINTENANCE SCHEDULE

If the machine is equipped with a hydraulic breaker, the maintenance schedule for some parts will be different. For details, see "MAINTENANCE INTERVAL FOR HYDRAULIC BREAKER (PAGE 4-17)" to confirm the correct maintenance schedule when carrying out maintenance.

MAINTENANCE SCHEDULE CHART

WHEN REQUIRED
CHECK, CLEAN AND REPLACE AIR CLEANER ELEMENT ---- 4- 18
CLEAN INSIDE OF COOLING SYSTEM ---- 4- 24
CHECK LEVEL OF BATTERY ELECTROLYTE ---- 4- 27
CLEAN WATER SEPARATOR ELEMENT ---- 4- 29
DRAIN WATER AND SEDIMENT FROM FUEL TANK ---- 4- 30
CHECK AND TIGHTEN TRACK SHOE BOLTS ---- 4- 31
CHECK AND ADJUST TRACK TENSION ---- 4- 32
CHECK RUBBER SHOES ---- 4- 34
CHECK AND ADJUST RUBBER SHOE TENSION ---- 4- 36
REPLACE RUBBER SHOES ---- 4- 38
REPLACE BUCKET TEETH ---- 4- 41
CHECK WINDOW WASHER FLUID LEVEL, ADD FLUID ---- 4- 44
CHECK, CLEAN AND LUBRICATE CAB SLIDE DOOR RAIL AND ROLLER ---- 4- 45
LUBRICATING ---- 4- 46
BLEEDING AIR FROM HYDRAULIC SYSTEM ---- 4- 47
CHECK SWING PINION GREASE LEVEL, ADD GREASE ---- 4- 49

CHECKS BEFORE STARTING

EVERY 100 HOURS MAINTENANCE
LUBRICATING ---- 4- 51

EVERY 500 HOURS MAINTENANCE
LUBRICATING ---- 4- 52
CHANGE OIL IN ENGINE OIL PAN, REPLACE ENGINE OIL FILTER CARTRIDGE ---- 4- 55
REPLACE FUEL FILTER CARTRIDGE ---- 4- 56
CHECK OIL LEVEL IN FINAL DRIVE CASE, ADD OIL ---- 4- 57
CLEAN,CHECK RADIATOR FINS,OIL COOLER FINS,FUEL COOLER FINS ---- 4- 58
CHECK AND ADJUST COOLING FAN BELT TENSION ---- 4- 59

EVERY 1000 HOURS MAINTENANCE
CHANGE OIL IN FINAL DRIVE CASE ---- 4- 60
REPLACE HYDRAULIC OIL FILTER ELEMENT ---- 4- 61
CHECK ENGINE VALVE CLEARANCE, ADJUST ---- 4- 62

EVERY 1500 HOURS MAINTENANCE
CHECK AND CLEAN FUEL INJECTION SYSTEM ---- 4- 63
CHECK CRANKCASE BREATHER ---- 4- 63

EVERY 2000 HOURS MAINTENANCE
CHANGE OIL IN HYDRAULIC TANK, CLEAN STRAINER ---- 4- 64
CHECK ALTERNATOR, STARTING MOTOR ---- 4- 66

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SPECIFICATIONS

	Item		Unit	PC45MR-3	PC55MR-3
		Canopy specified		4,795 (10,572)	5,160 (11,378)

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ATTACHMENTS AND OPTIONS - GENERAL INFORMATION

SAFETY FIRST

If attachments or options other than those authorized by Komatsu are installed, this will not only affect the life of the machine, but will also cause problems with safety.

When installing attachments not listed in this Operation and Maintenance Manual, contact your Komatsu distributor first.

If you do not contact Komatsu, we cannot accept any responsibility for any accidents or failures.

⚠ WARNING

General precautions

- **Read the instruction manual for the attachment thoroughly, and do not use this attachment unless you are sure that you have understood the guides completely.**
  If you lose the instruction manual, always ask the manufacturer or your Komatsu distributor for a new copy.
- **Depending on the attachment, install the necessary front guard on the machine.**
- **Depending on the attachment, the impact noise may make it difficult for fellow workers to transmit instructions for the operation. Before starting operation, decide a leader and determine the signals to be used.**
- **Do not carry out swinging operations to the side with a heavy load on the attachment. This is particularly dangerous on slopes.**
- **Comparing with a machine equipped with a bucket, a machine equipped with a breaker has a heavy load at the front of the work equipment and is unstable. To avoid a hazard of tipping over, do not carry out operations with the attachment swung to the side.**
- **When an attachment is installed, the swing range and center of gravity of the machine are different, and the machine may move in an unexpected way. Be sure that you understand the condition of the machine properly.**
- **Before starting operations, set up a fence around the machine to prevent people from entering.**
  Never operate the machine when there are people near the machine.
- **To prevent serious accidents caused by misoperation, do not put your foot on the pedal except when operating the pedal.**

Precautions for removal and installation operations

When removing or installing the attachments, obey the following precautions and take care to ensure safety during the operation.

- **Carry out the removal and installation operation on a flat, firm ground surface.**
- **When the operation is carried out by two or more workers, determine the signals and follow these during the operation.**
- **When carrying heavy objects (more than 25 kg or 55 lb), use a crane.**
- **When removing heavy parts, always support the part before removing it.**
  When lifting such as heavy parts with a crane, always pay careful attention to the position of the center of gravity.
- **It is dangerous to carry out operations with the load kept suspended. Always set the load on a stand, and check that it is safe.**
- **When removing or installing attachments, make sure that it is in a stable condition and will not fall over.**
- **Never go under a load suspended from a crane.**
  Always stand in a position that is safe even if the load should fall.

NOTICE

Qualifications are required to operate a crane. Never allow the crane to be operated by an unqualified person.

For details of removal and installation operations, contact your Komatsu distributor.

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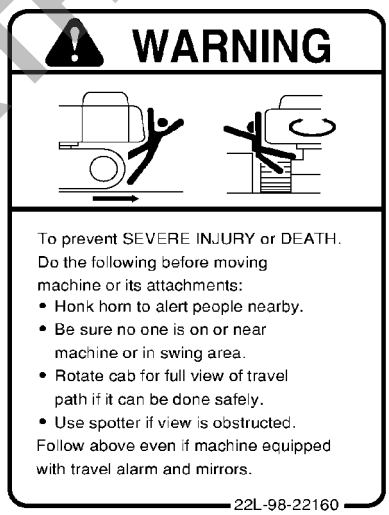
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SAFETY LABELS

(1) Caution before operating or maintaining machine (09651-03001)



(2) Caution for before operation (22L-98-22160)



(3) Caution for leaving operator's seat (09654-03001)



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SAFETY INFORMATION

To enable you to use this machine safely, safety precautions and labels are given in this manual and affixed to the machine to give explanations of situations involving potential hazards and of the methods of avoiding such situations.

Signal words

The following signal words are used to inform you that there is a potential hazardous situation that may lead to personal injury or damage.
In this manual and on machine labels, the following signal words are used to express the potential level of hazard.

⚠ 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. This word is used also to alert against unsafe practices that may cause property damage.

Example of safety message using signal word

⚠ WARNING

When standing up from the operator's seat, always place the lock lever in the LOCK position.
If you accidentally touch the control levers when they are not locked, this may cause a serious injury or death.

Other signal words

In addition to the above, the following signal words are used to indicate precautions that should be followed to protect the machine or to give information that is useful to know.

NOTICE This word is used for precautions that must be taken to avoid actions which could shorten the life of the machine.

REMARKS This word is used for information that is useful to know.

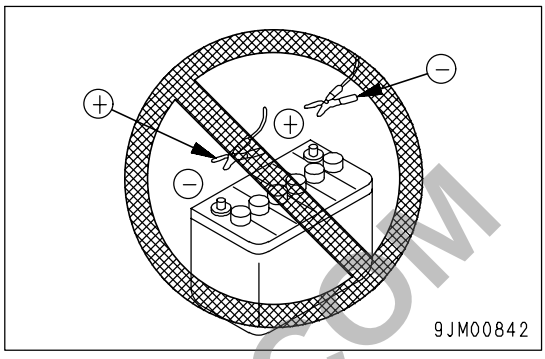
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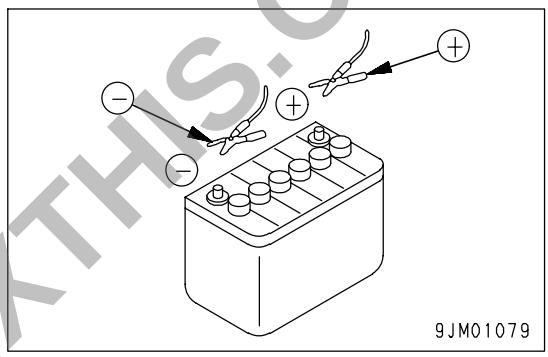
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STARTING ENGINE WITH BOOSTER CABLES

If any mistake is made in the method of connecting the booster cables, it may cause the battery to explode, so always do as follows.

- When starting with a booster cable, carry out the starting operation with two workers (one worker sitting in the operator's seat and the other working with the battery).
- When starting from another machine, do not allow the two machines to touch.
- When connecting the booster cables, turn the starting switch OFF position for both the normal machine and problem machine. There is a hazard that the machine will move when the power is connected.
- Be sure to connect the positive (+) cable first when installing the booster cables. Disconnect the negative (-) cable (ground side) first when removing them.
- When removing the booster cables, be careful not to let the booster cable clips touch each other or to let the clips touch the machine.
- Always wear safety glasses and rubber gloves when starting the engine with booster cables.
- When connecting a normal machine to a problem machine with booster cables, always use a normal machine with the same battery voltage as the problem machine.
- For details of the starting procedure when using booster cables, see "Starting Engine with Booster Cables (PAGE 3-112)" in the OPERATION section.





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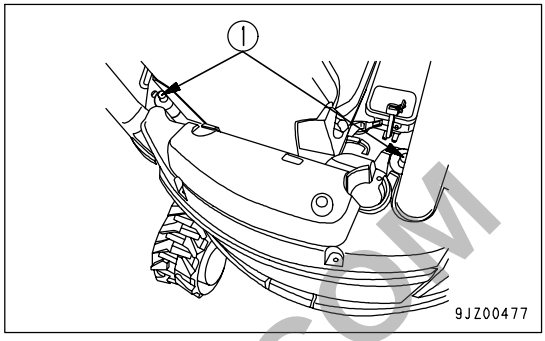
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METHOD OF OPENING (TILTING) FLOOR

WARNING

Always observe the warning and caution items when opening or closing the floor. If the operation is carried out mistakenly, it may lead to serious personal injury.

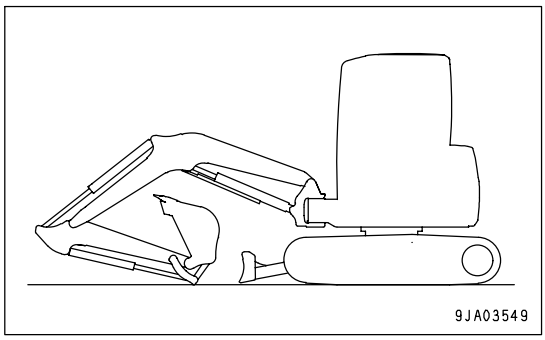
- **Do not open or close the floor on slopes.**
- **Do not open or close the floor when there is a strong wind.**
- **Do not enter the floor area or the inside of the cab when the floor is open.**
- **Do not start the engine when the floor is open.**
- **If there is any breakage or problem in the lock when the floor is opened, stop the operation and ask your Komatsu distributor to carry out repairs.**
- **Do not remove the floor mounting bolts (1). There is danger that the floor may suddenly come up.**



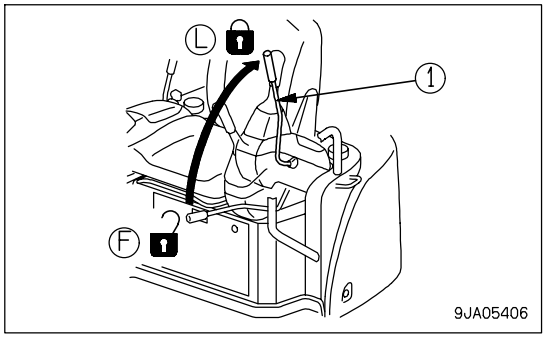
Before starting the opening (tilting) operation of the floor, read the precautions related to safety and maintenance in "CAUTIONS FOR OPENING (TILTING) FLOOR (PAGE 2-36)".

When Opening (tilt open)

1. Lower the blade.
2. Extend the bucket and arm cylinders fully, then lower the boom slowly.



3. Set the lock lever (1) to the LOCK position (L), then stop the engine.



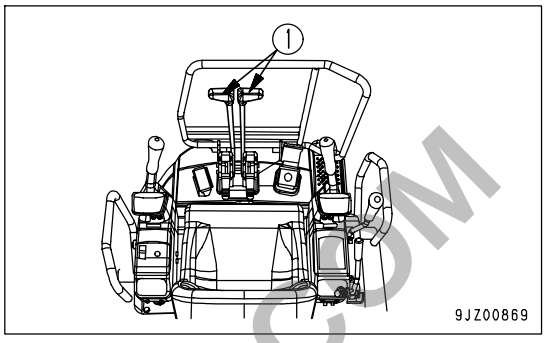
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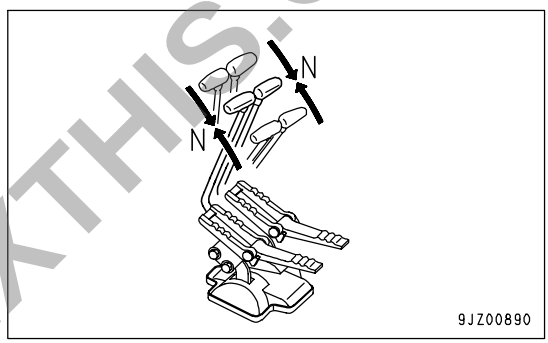
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Stopping Machine

Avoid stopping suddenly. Give yourself ample room when stopping.

1. Shift the left and right travel levers to the neutral (N) position.





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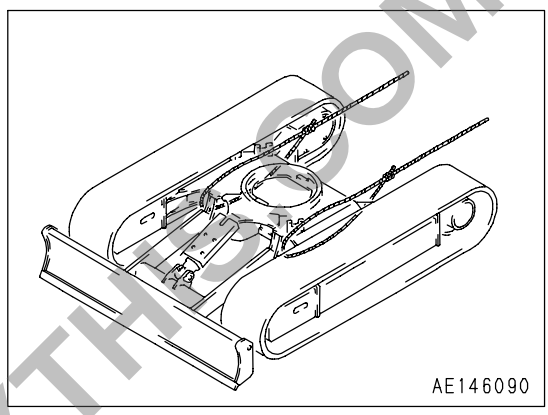
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TOWING THE MACHINE

WARNING

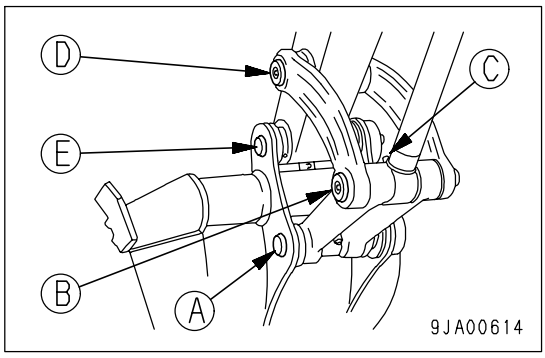
- **When towing the machine, use a wire rope that has ample strength for the weight of the machine that is being towed.**
- **Do not apply a sudden load to the wire rope.**

When the machine is stuck in soft ground and cannot escape under its own power, or when towing a heavy machine, pass the wire rope through the front of the track frame as shown in the diagram on the right before carrying out towing.
Places pieces of wood between the wire ropes and the body to prevent the wire ropes from damaging the body.



SEVERE JOB CONDITION

- When digging in water, if the water gets on to the work equipment mounting pins, add grease to bucket links (A), (B), (C), (D) and (E) for each operation.
- When carrying out heavy duty digging and deep digging operations, add grease to bucket links (A), (B), (C), (D) and (E) (total: 5 places) before each operation.
  After greasing, operate the bucket several times, then add grease again.



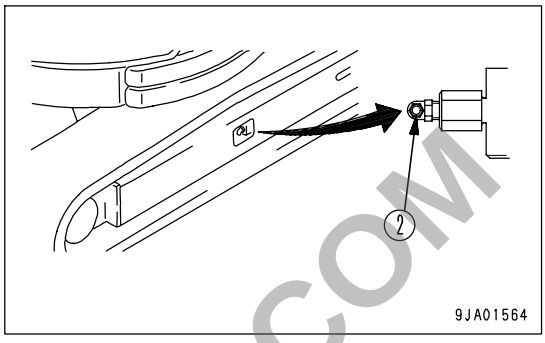
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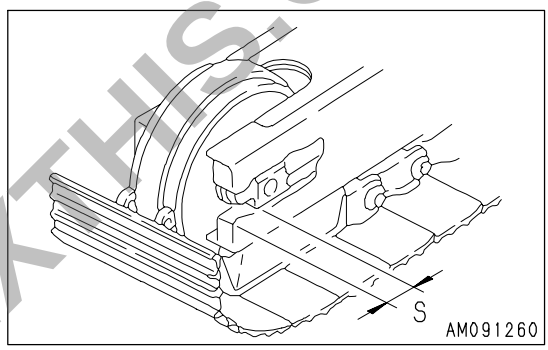
Increasing Track Tension

Prepare a grease pump.

1. Pump in grease through grease fitting (2) with a grease pump.
2. To check if the tension is correct, run the engine at low idle, move the machine slowly forward (by an amount equal to the length of track on ground), then stop the machine.
3. Check the track tension again, and if the tension is not correct, adjust it again.



4. Continue to pump in grease until dimension (S) becomes zero (0). If the tension is still loose, the pin and bushing are excessively worn, so they must be either turned or replaced. Please contact your Komatsu distributor for repairs.



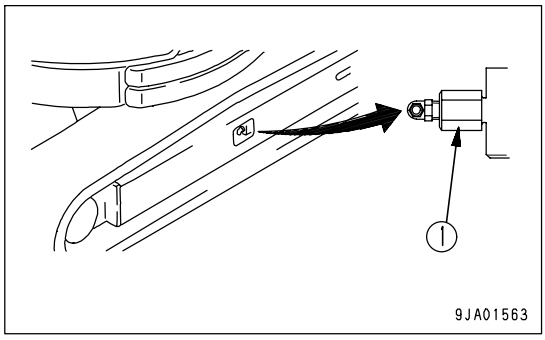
Loosening Track Tension

WARNING

It is extremely dangerous to release the grease by any method except the procedure given below.

If track tension is not relieved by this procedure, contact your Komatsu distributor for repairs.

1. Loosen plug (1) gradually to release the grease.
2. When loosening plug (1), turn it a maximum of one turn.
3. If the grease does not come out smoothly, move the machine forwards and backwards a short distance.
4. Tighten plug (1).
5. To check if the tension is correct, run the engine at low idle, move the machine slowly forward (by an amount equal to the length of track on ground), then stop the machine.
6. Check the track tension again, and if the tension is not correct, adjust it again.



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	Working ranges	Unit	PC45MR-3	PC55MR-3
A	Max. digging reach	mm (ft in)	6,040 (19'10")	6,220 (20'5")
B	Max. digging depth	mm (ft in)	3,670 (12'0")	3,800 (12'6")

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