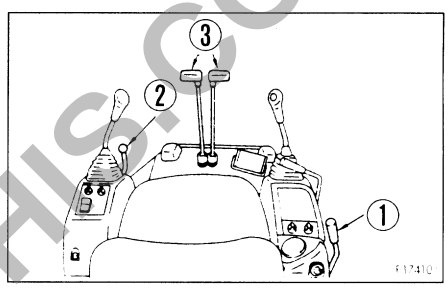
12.4 MOVING MACHINE OFF

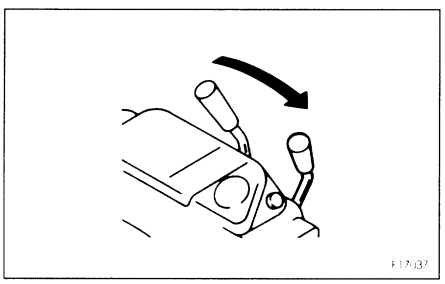
12.4.1 MOVING THE MACHINE FORWARD

⚠ WARNING

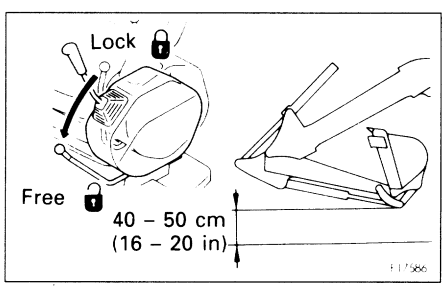
- **Before operating the travel levers, check the direction of the track frame. If the sprocket is at the front, the operation of the travel levers is reversed.**
- **When moving off, check that the area around the machine is safe, and sound the horn before moving.**
- **Clear all personnel from the machine and the area.**
- **Clear all obstacles from the path of the machine.**



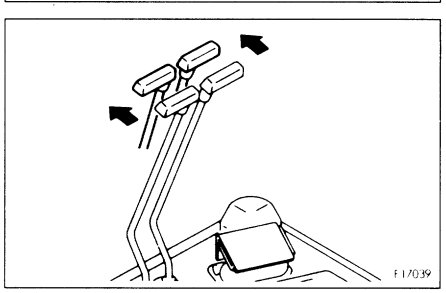
1. Pull fuel control lever ① towards the high idling position to increase the engine speed.

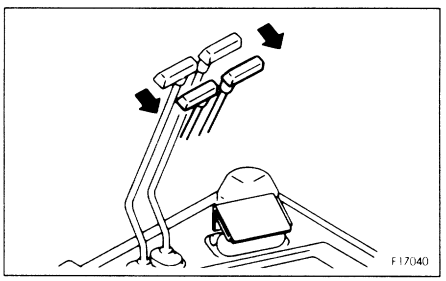


2. Set lock lever ② in the FREE position, fold the work equipment, and raise it 40 – 50 cm (16 – 20 in) from the ground.
3. Raise the blade.



4. Operate right and left travel levers ③ as follows.
   - When the sprocket is at the rear of the machine.
     Pull levers ③ backward slowly to move the machine off.
   - When the sprocket is at the front of the machine
     Push levers ③ forward slowly to move the machine off.





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23. MAINTENANCE SCHEDULE CHART

23.1 MAINTENANCE SCHEDULE CHART

SERVICE ITEM	PAGE
INITIAL 250 HOURS SERVICE (only after the first 250 hours)	
Replace fuel filter element	3-21
Change oil in engine oil pan, replacement engine oil filter cartridge	3-21
Engine valve clearance, check and adjust	3-21
WHEN REQUIRED	
Check, clean and replace air cleaner element	3-22
Clean inside of cooling system	3-24
Check level of battery electrolyte	3-28
Check glow plug	3-28
Clean water separator element	3-29
Check electric wirings	3-29
Check and adjust track tension (Machine equipped with steel shoes)	3-30
Check and tighten track shoe bolts (Machine equipped with steel shoes)	3-32
Check rubber shoes (Machine equipped with rubber shoes)	3-33
Check and adjust track tension (Machine equipped with rubber shoes)	3-35
Replace rubber shoes (Machine equipped with rubber shoes)	3-38
Replace bucket teeth (Vertical pin type)	3-41
Replace bucket teeth (Horizontal pin type)	3-44
Adjust bucket clearance	3-45
CHECK BEFORE STARTING	
Check and refill coolant	3-46
Check oil level in engine oil pan, add oil	3-46
Check fuel level	3-47
Check oil level in hydraulic tank, add oil	3-48
Check dust indicator	3-49
Check water separator	3-49
EVERY 50 HOURS SERVICE	
Drain water and sediment from fuel tank	3-50

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25. SPECIFICATIONS

PC75UU-2

		Rubber shoe, cab	Steel shoe, cab
WEIGHT			
• Operating weight (without operator) (kg)		7750 kg (17089 lb)	7850 kg (17309 lb)
PERFORMANCE			
• Bucket capacity (standard bucket)		0.25 m^3 (0.33 cu.yd)	
• Width of opening	(Standard bucket)	650 mm (25.6 in)	
	(With side cutter)	750 mm (29.6 in)	
• Travel speed		3.5 km/h (2.2 MPH)	3.4 km/h (2.1 MPH)
• Swing speed		8.5 rpm	
TRACK SHOE			
• Rubber shoe (standard)		Rubber shoe 450 mm (17.7 in)	Triple grouser shoe 450 mm (17.7 in)
ENGINE			
• Model		Komatsu 4D95L diesel engine	
• Flywheel horsepower		40.5 kW (54 HP)/1900 rpm	
• Starting motor		24 V 2.8 kW	
• Alternator		24 V 15 A	
• Battery		12 V 48 Ah x 2 pieces	

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31. INTRODUCTION OF ATTACHMENTS

31.1 SPECIFICATION, USE

Name	Specification	
Track shoe	Triple shoe	Width: 450 mm (17.7 in)
Bucket	Narrow bucket	Width: 550 mm (21.7 in), 0.18 m^3 (0.23 cu.yd)
	Narrow bucket	Width: 450 mm (17.7 in), 0.11 m^3 (0.14 cu.yd)
	Narrow bucket	Width: 350 mm (13.8 in), 0.08 m^3 (0.10 cu.yd)
	Vertical pin bucket	Width: 750 mm (29.6 in), 0.25 m^3 (0.32 cu.yd)
	Light duty bucket	Width: 760 mm (29.9 in), 0.3 m^3 (0.39 cu.yd)
Long arm		
Machine able to install attachment		

OTHERS
- 1-touch deceleration
- Car radio
- Car cooler
- Window washer

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16.5 OTHER TROUBLE

16.5.1 ELECTRICAL SYSTEM

- ( ): Always contact your Komatsu distributor when dealing with these items.
- In cases of abnormalities or causes which are not listed below, please contact your Komatsu distributor for repairs.

Problem	Main causes	Remedy
Lamp does not glow brightly even when the engine runs at high speed	• Defective wiring • Defective adjustment of fan belt tension	(• Check, repair loose terminals, disconnections) • Adjust fan belt tension For details, see EVERY 250 HOURS SERVICE
Lamp flickers while engine is running		
Charge lamp does not go out even when engine is running	• Defective alternator • Defective wiring	(• Replace) (• Check, repair)
Abnormal noise is generated from alternator	• Defective alternator	(• Replace)
Starting motor does not turn when starting switch is turned to ON	• Defective wiring • Insufficient battery charge	(• Check, repair) • Charge
Pinion of starting motor keeps going in and out	• Insufficient battery charge	• Charge
Starting motor turns engine sluggishly	• Insufficient battery charge • Defective starting motor	• Charge (• Replace)
Starting motor disengages before engine starts	• Defective wiring • Insufficient battery charge	(• Check, repair) • Charge
Pre-heating monitor does not light	• Defective wiring • Defective monitor	(• Check, repair) (• Replace)
Oil pressure monitor does not light up when engine is stopped (starting switch at ON position)	• Defective monitor • Defective oil pressure switch	(• Replace) (• Replace)

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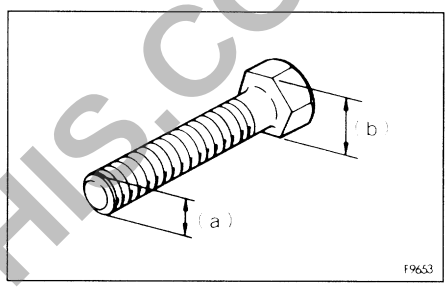
21.2 TORQUE LIST

Unless otherwise specified, tighten the metric bolts and nuts to the torque shown in the table.

The tightening torque is determined by the width across the flats (b) of the nut and bolt.

If it is necessary to replace any nut or bolt, always use a Komatsu genuine part of the same size as the part that was replaced.

Nm (newton meter): 1 Nm ≒ 0.74 lbft



Thread diameter of bolt (mm) (a)	Width across flat (mm) (b)	kgm	Nm	lbft
6	10	1.35 ± 0.15	13.2 ± 1.4	9.73 ± 1.03
8	13	3.2 ± 0.3	31.4 ± 2.9	23.2 ± 2.1
10	17	6.7 ± 0.7	65.7 ± 6.8	48.5 ± 5.0
12	19	11.5 ± 1.0	112 ± 9.8	82.6 ± 7.2
14	22	18.0 ± 2.0	177 ± 19	131 ± 14
16	24	28.5 ± 3	279 ± 29	206 ± 21
18	27	39 ± 3	383 ± 39	282 ± 29
20	30	56 ± 6	549 ± 58	405 ± 43
22	32	76 ± 8	745 ± 78	549 ± 58
24	36	94.5 ± 10	927 ± 98	684 ± 72
27	41	135 ± 15	1320 ± 140	973 ± 100
30	46	175 ± 20	1720 ± 190	1270 ± 140
33	50	225 ± 25	2210 ± 240	1630 ± 180
36	55	280 ± 30	2750 ± 290	2030 ± 210
39	60	335 ± 35	3280 ± 340	2420 ± 250

NOTICE

When tightening panels or other parts having tightening fixtures made of plastic, be careful not to use excessive tightening torque: doing so will damage the plastic parts.

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24.7 EVERY 500 HOURS SERVICE

Maintenance for every 50, 100 and 250 hours service should be carried out at the same time.

24.7.1 REPLACE FUEL FILTER CARTRIDGE

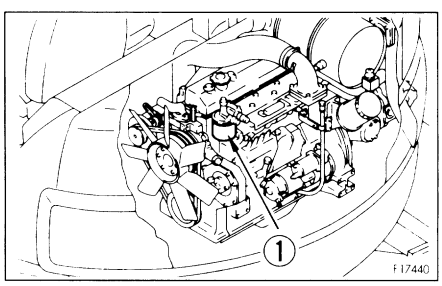
⚠ WARNING

- **Engine is at high temperature immediately after the machine has been operated. Wait for engine to cool down before replacing the filter.**
- **Do not bring fire or sparks near the fuel.**

Prepare the following.
- Filter wrench for fuel filter element
- Container to catch drained oil

1. Set the container to catch the fuel under the filter element.

2. Using a filter wrench, turn filter cartridge ① counterclockwise to remove it.



3. Clean the filter holder, fill a new filter cartridge with clean fuel, coat the packing surface with engine oil, then install it to the filter holder.

4. When installing, tighten until the packing surface contacts the seal surface of the filter holder, then tighten it up 2/3 of a turn.

   If the filter cartridge is tightened too far, the packing will be damaged and this will lead to leakage of fuel. If the filteer cartridge is too loose, fuel will also leak from the packing, so always tighten to the correct amount.

5. Set the fuel control lever to the low idling position.

6. After replacing the fuel filter element bleed the air.

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12.11 WORK POSSIBLE USING HYDRAULIC EXCAVATOR

In addition to the following, it is possible to further increase the range of applications by using various attachments.

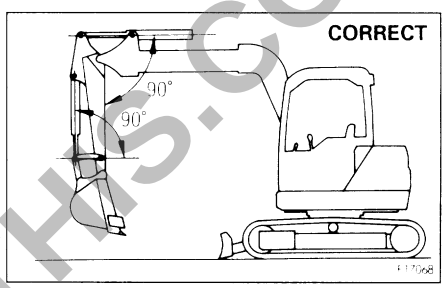
12.11.1 BACKHOE WORK

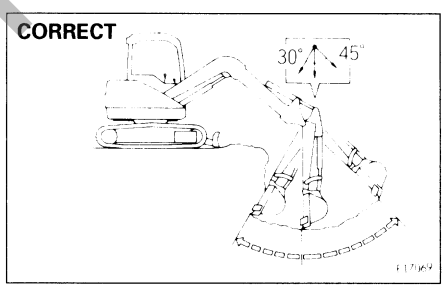
When condition of the machine is as shown in the diagram at right, each cylinders maximum pushing excavation force is obtained when the bucket cylinder and link, arm cylinder and arm are at 90°.

When excavating, use this angle effectively to optimize your work efficiency.

The range for excavating with the arm is from a 45° angle away from the machine to a 30° toward the machine.

There may be some differences depending on the excavation depth, but try to use within the above range rather than going all the way to the extreme end of the cylinder stroke.

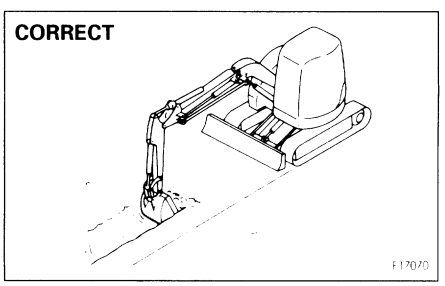




12.11.2 DITCHING WORK

Ditching work can be performed efficiently by attaching a bucket to match the width of the ditch and then setting the tracks parallel to the line of the ditch to be excavated.

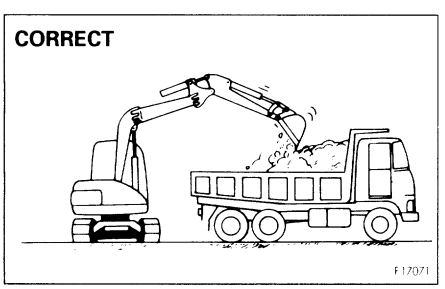
To excavate a wide ditch, first dig out both sides and then finally remove the center portion.



12.11.3 LOADING WORK

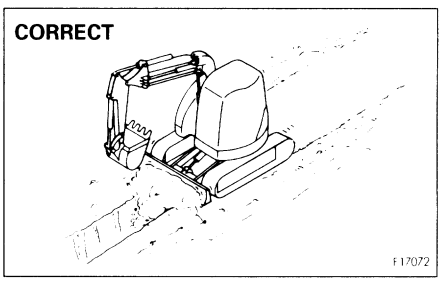
In places where the swing angle is small, work efficiency can be enhanced by locating the dump truck in a place easily visible to the operator.

Loading is easier and capacity greater if you begin from the front of the dump truck body than if loading is done from the side.



12.11.4 SMOOTHING WORK

When refilling after excavation and when smoothing the ground surface, use the blade.



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24.2 WHEN REQUIRED

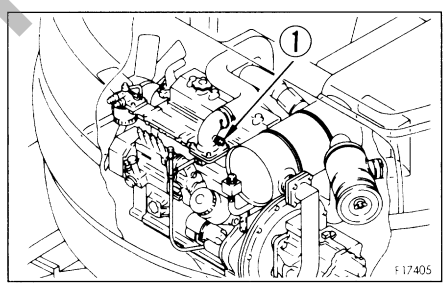
24.2.1 CHECK, CLEAN AND REPLACE AIR CLEANER ELEMENT

⚠ WARNING

- **Never clean or replace the air cleaner element with the engine running.**
- **When using pressure air to clean the element wear safety glasses or goggles to protect the eyes.**

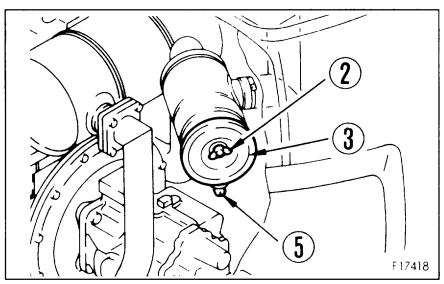
CHECKING

Whenever the red piston in dust indicator ① appears, clean the air cleaner element.



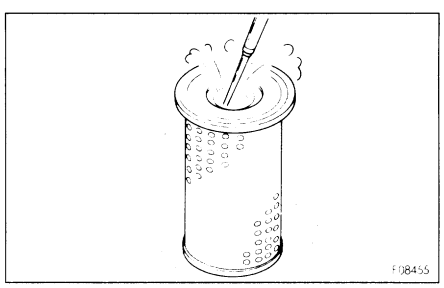
CLEANING OR REPLACING OUTER ELEMENT

1. Open the engine hood at the rear of the machine, remove wing nut ②, take out element ③, then use a clean cloth or tape to cover the air connector inside the air cleaner body to prevent dust from entering.



2. Clean the inside of the air cleaner body.

3. Direct dry compressed air (less than 700 kPa (7 kg/cm², 100 psi)) to the element from inside along its folds, then direct it from outside along its folds and again from inside.



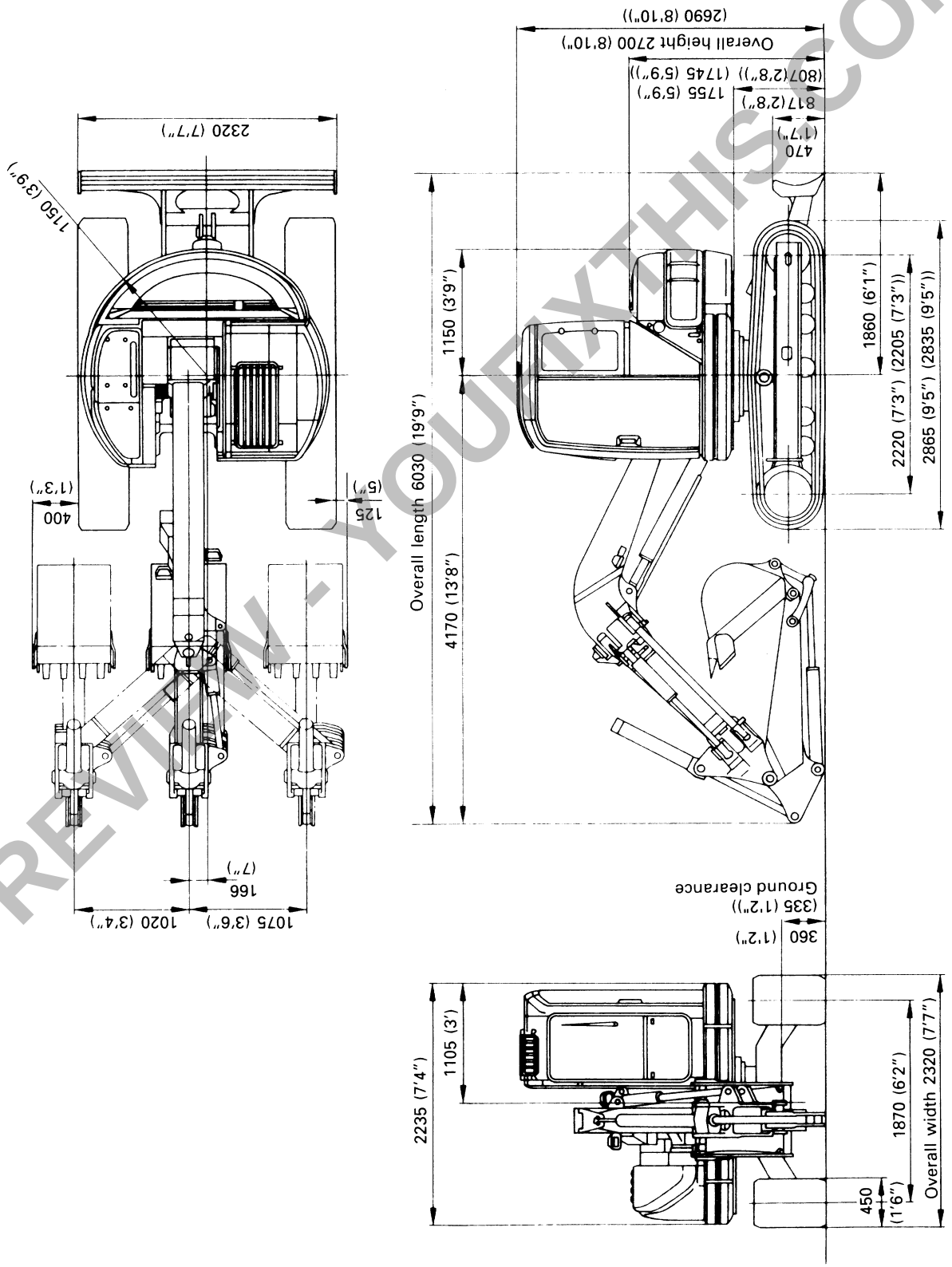
(1) Replace the element which has been cleaned 5 times repeatedly or used throughout a year.
(2) Replace element when the dust indicator red piston appears soon after installing the cleaned element even though it has not been cleaned 5 times.

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- Cab, rubber shoe specification machine
- Cab, steel shoe specification machine

The values without parenthese are the values for the rubber shoe specification machine.
The values inside parenthese are the values for the steel shoe specification machine.
If only one value is given, the value is the same for both the rubber shoe specification and steel shoe specification machines.



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31.3 PRECAUTIONS WHEN USING HYDRAULIC BREAKER

Select the most suitable model to install the attachment.

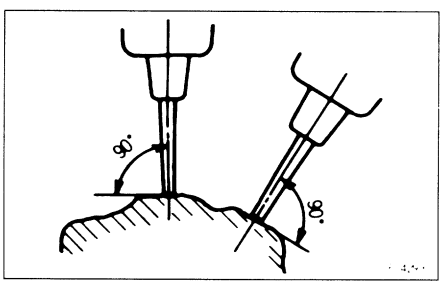
- Always use the attachments specified by Komatsu. Please consult your Komatsu distributor when selecting the machine model.

31.3.1 MAIN FIELDS OF APPLICATION

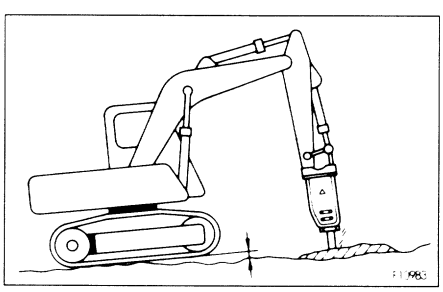
- Crushed rock
- Demolition work
- Road construction

This attachment can be used for a wide range of work including demolition of buildings, breaking up of road surfaces, tunnel work, breaking up slag, rock crushing, and breaking operations in quarries.

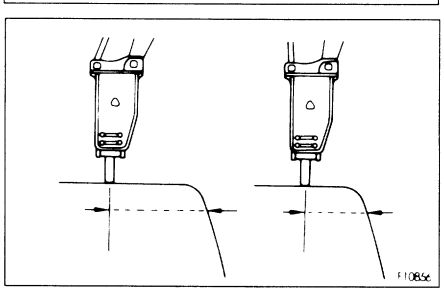
Keep the chisel pushed perpendicularly against the impact surface when carrying out breaking operations.



When applying impact, push the chisel against the impact surface and operate so that the chassis rises approx. 5 cm (2 in) off the ground. Do not let the machine come further off the ground than is necessary.



When applying continuous impact to the same impact surface, if the chisel does not penetrate or break the surface within 1 minute, change the point of impact and carry out breaking operations closer to the edge.



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16.5.4 4-SYSTEM RELATED PARTS

If any error code is displayed on the depth display portion of the monitor panel, follow the procedure given in the table below for the action to take after self diagnosis.

Action to take after self diagnosis

Error code	Machine condition	Probable cause	Action
21	Auto stop distance is too far	Abnormality in model selector signal	Operations can still be carried out, but have the machine checked immediately.
22	Auto stop distance is too far	Abnormality in work equipment selector signal	
31	Boom RAISE, arm IN, offset left cannot be carried out	Abnormality in boom angle sensor	Use the cancel switch to move the machine to a safe place, then have the machine checked immediately.
32	Boom RAISE, arm IN, offset left cannot be carried out	Abnormality in arm angle sensor	
34	Boom RAISE, arm IN, offset left cannot be carried out	Abnormality in offset angle sensor	
41	Swing operation and operation of all work equipment cannot be carried out	Abnormality in basic pressure lock solenoid valve	Use the cancel switch to move the machine to a safe place, then have the machine checked immediately. However, depending on the location of the failure, it may be impossible to carry out operations even when the cancel switch is turned on, so in such cases, have the machine checked immediately.
42	Boom RAISE, arm IN, offset left cannot be carried out	Abnormality in offset solenoid valve	
44	Boom LOWER, arm IN, offset left cannot be carried out	Abnormality in boom LOWER solenoid valve	
51	Boom RAISE, arm IN, offset left cannot be carried out	Abnormality in boom RAISE solenoid valve	
52	Boom RAISE, arm IN, offset left cannot be carried out	Abnormality in arm IN solenoid valve	
61	Swing operation and operation of all work equipment cannot be carried out	Abnormality in automatic stop position	If the cancel switch is used to move the bucket to the front or to the right, the self diagnosis is canceled and it becomes possible to operate the machine again, but have the machine checked immediately.
No error code is displayed, but swing operation and operation of all work equipment cannot be carried out			Have the machine checked immediately.

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