SAFE OPERATION

Most backhoe equipment accidents can be avoided by following simple safety precautions.
These safety precautions, if followed at all times, will help you operate your backhoe safely.

BEFORE OPERATING BACKHOE

1. Allow only trained personnel to operate or service this equipment. Read and understand all precautions in this manual before service or operation.
   Also read all precautions found in the tractor and loader manuals.
2. For safe operation, check the mounting bolts for tightness and that the mount levers are in the right position before operation.
3. Never operate tractor with backhoe attached and loader removed.
4. Check for buried material such as electrical, telephone, gas and water lines. When in doubt, contact local utility companies for their buried location prior to operating the backhoe.
5. Replace any safety decal that becomes damaged, lost or illegible. Also renew all decals when repainting.

OPERATING THE BACKHOE

1. Do not allow anyone other than the operator on the unit while in operation or transport.
2. Use care when operating on slopes to avoid tip-over. Travel at a speed compatible with safe operation, especially when operating on uneven terrain, crossing ditches or while turning.
3. Operate the backhoe from the backhoe operator's seat only.
4. When using on slopes, one stabilizer may be lower than the other. Use extreme care during excavation as risk of tip-over will increase.
5. To reduce the risk of tip-over on a slope, place the spoil to the high side of the excavation.
6. Do not dig under the stabilizer or tractor, especially in soft or sandy conditions. Take extra precaution in wet or thawing ground.
   These conditions can become unstable and may collapse under the weight of the machine and may cause tip over.
7. Never operate the machine or any equipment while under the influence of alcohol or other drugs, or while fatigued.
8. When leaving the machine unattended, be sure to lower the backhoe to the ground. Set the parking brake, then shut the engine off and remove the key.

SAFETY FOR CHILDREN

Tragic accidents can occur if the operator is not alert to the presence of children. Children are generally attracted to machines and the work being done. Never assume children will remain where you last saw them.

1. Keep children out of the operating area and under the watchful eye of another responsible adult.
2. Be alert and turn the machine off if children enter the work area.
3. Before and when backing, look behind and down for small children.
4. Never carry children while operating the machine. They may fall off and be seriously injured or interfere with safe operation of the machine.
5. Never allow children to play on the machine or attachment even when turned off.
6. Never allow children to operate the machine even under adult supervision.
7. Use extra care when approaching blind corners, shrubs, trees, or other obstructions that might hide children from sight.

DRIVING THE TRACTOR ON THE ROAD

1. Raise and center the boom, close the dipperstick, curl the bucket and engage the boom and swing locks before transporting the machine.
2. Check the local codes or regulations that may apply to tractor / loader / backhoe operation on public streets or highways, before transporting or traveling. Use SMV emblem and warning flashers as required.
   (SMV: Slow Moving Vehicle)

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SPECIFICATIONS

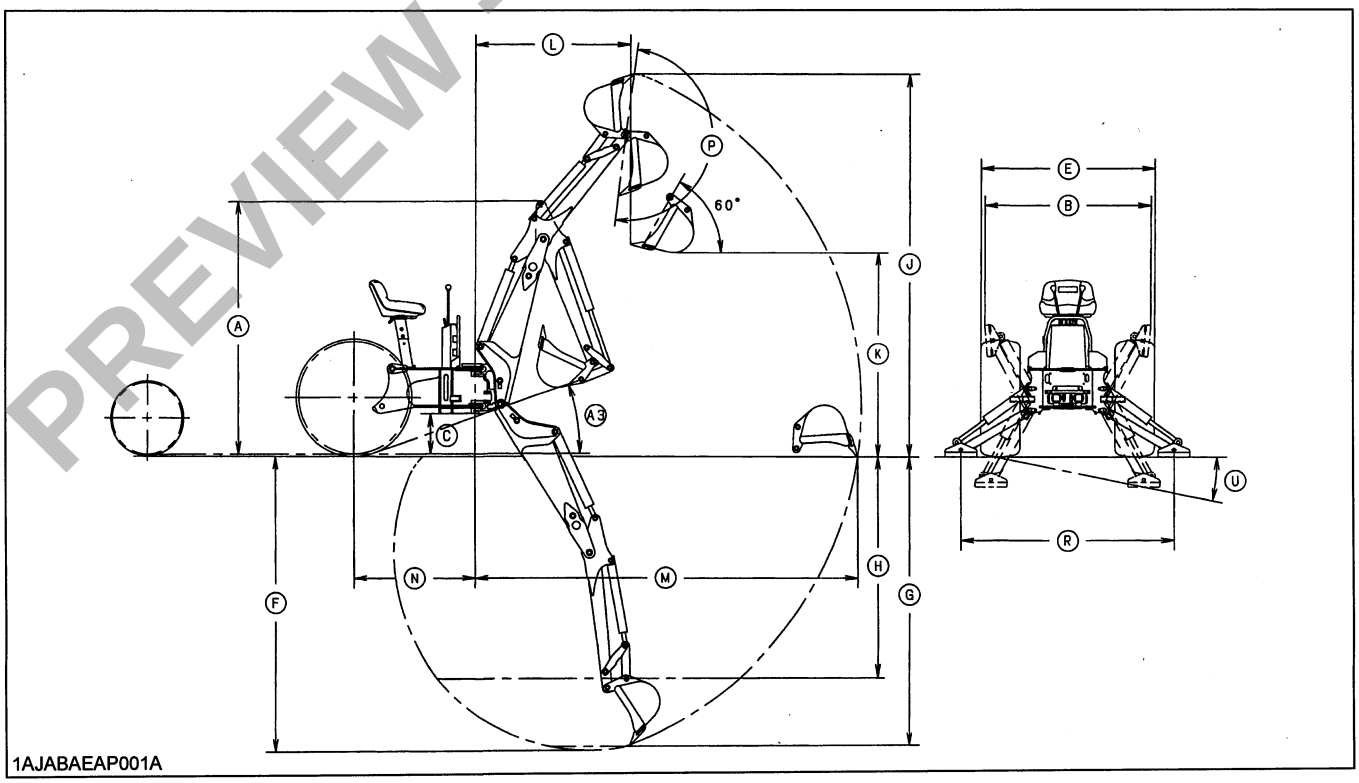
BACKHOE SPECIFICATIONS

NOTE :

- The specifications are taken with KUBOTA B2630 tractor. (Tire size: Front 23 x 8.5-14, Rear 12.4-16)

■Dimensions

Item		BH75
Transport height	(A)	2042 mm (80.4 in.)
Stabilizer spread-transport	(B)	1315 mm (51.8 in.)
Ground clearance	(C)	327 mm (12.9 in.)
Overall width	(E)	1394 mm (54.9 in.)
Maximum digging depth	(F)	2341 mm (92.2 in)
Digging depth, 2 ft. flat bottom	(G)	2311 mm (91.0 in.)
Digging depth, 8 ft. flat bottom	(H)	1761 mm (69.3 in.)
Operating height, fully raised	(J)	3050 mm (120.1 in)
Loading height	(K)	1636 mm (64.4 in.)
Loading reach	(L)	1242 mm (48.9 in.)
Reach from swing pivot	(M)	3060 mm (120.5 in.)
Swing pivot to rear axle center line	(N)	976 mm (38.4 in.)
Bucket rotation	(P)	182 deg.
Stabilizer spread-operating	(R)	1717 mm (67.6 in.)
Angle of departure per SAE J1234	(A3)	18.0 deg.
Leveling angle	(U)	10.2 deg.
Swing arc		180 deg.



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■Specifications

Digging force (Per SAE J49)

With bucket cylinder	3339 lbs (14847 N)
With dipperstick cylinder	2097 lbs (9326 N)

Cycle Time (seconds)

Boom cylinder, extend	4.6
Boom cylinder, retract	3.6
Swing cylinder, from 90 degrees to center	1.3
Dipperstick cylinder, extend	4.7
Dipperstick cylinder, retract	3.7
Bucket cylinder, extend	3.1
Bucket cylinder, retract	2.2
Stabilizer cylinder, max. height to ground	2.0
Stabilizer cylinder, ground to max. height	1.6

Hydraulic cylinders

	Boom cm (in.)	Dipperstick cm (in.)	Bucket cm (in.)	Stabilizer cm (in.)	Swing cm (in.)
Rod diameter	3.5 (1.38)	3.2 (1.26)	3.0 (1.18)	3.0 (1.18)	2.5 (0.98)
Cylinder bore	6.5 (2.56)	6.5 (2.56)	5.5 (2.17)	6.0 (2.36)	5.0 (1.97)

Bucket Alternatives (Option)

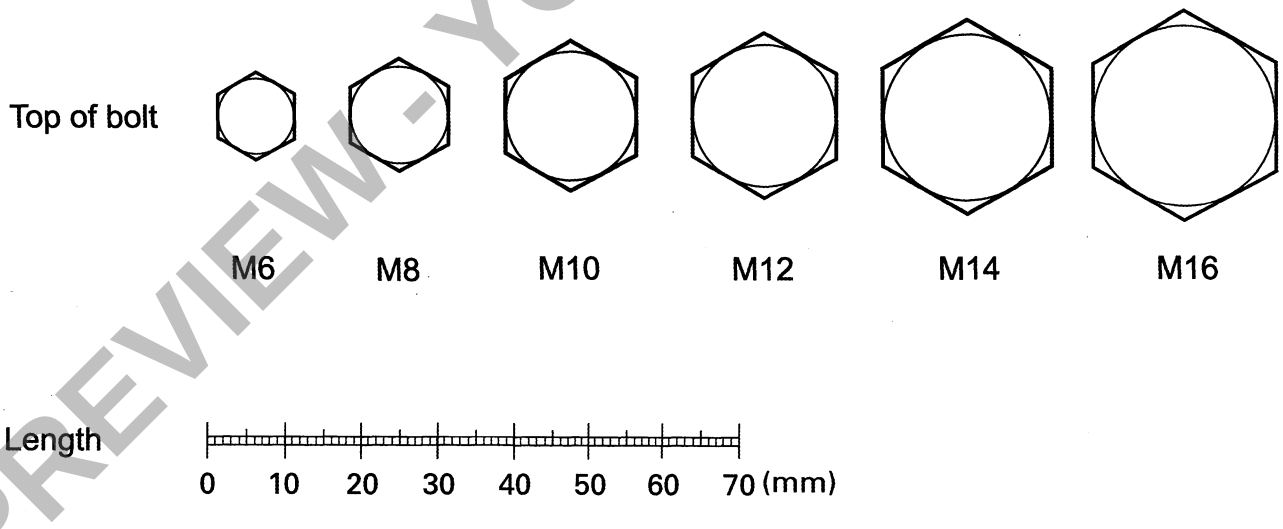
	Width cm (in.)	SAE Struck Capacity m^3 (cu-ft)	SAE Heaped Capacity m^3 (cu-ft)	Number of Teeth	Weight kg (lbs)
Trenching 10"	25.4 (10)	0.017 (0.60)	0.021 (0.74)	3	29 (64)
Trenching 12"	30.5 (12)	0.022 (0.77)	0.027 (0.95)	3	32 (71)
Trenching 16"	40.6 (16)	0.031 (1.09)	0.039 (1.38)	4	38 (84)
Trenching 24"	61.0 (24)	0.048 (1.70)	0.064 (2.26)	5	47 (104)

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■General torque specification

American standard screws, bolts and nuts with UNC or UNF threads				Metric cap screws 8.8		
SAE grade No.		SAE GR.5	SAE GR.8	property class		8.8 Approx. SAE GR 5
1/4	(N-m) (kgf-m) (ft-lbs)	11.7 to 15.8 1.19 to 1.61 8.6 to 11.6	16.3 to 19.8 1.66 to 2.02 12.0 to 14.6	M6	(N-m) (kgf-m) (ft-lbs)	9.8 to 11.2 1.0 to 1.1 7.2 to 8.3
5/16	(N-m) (kgf-m) (ft-lbs)	23.1 to 27.8 2.35 to 2.83 17.0 to 20.5	32.5 to 39.3 3.31 to 4.01 24.0 to 29.0	M8	(N-m) (kgf-m) (ft-lbs)	23.6 to 27.4 2.4 to 2.8 17.4 to 20.2
3/8	(N-m) (kgf-m) (ft-lbs)	47.5 to 57.0 4.84 to 5.81 35.0 to 42.0	61.0 to 73.2 6.22 to 7.46 45.0 to 54.0	M10	(N-m) (kgf-m) (ft-lbs)	48.1 to 55.8 4.9 to 5.7 35.5 to 41.2
1/2	(N-m) (kgf-m) (ft-lbs)	108.5 to 130.2 11.06 to 13.28 80.0 to 96.0	149.2 to 179.0 15.21 to 18.25 110.0 to 132.0	M12	(N-m) (kgf-m) (ft-lbs)	77.5 to 90.1 7.9 to 9.2 57.2 to 66.5
9/16	(N-m) (kgf-m) (ft-lbs)	149.2 to 179.0 15.21 to 18.25 110.0 to 132.0	217.0 to 260.4 22.13 to 26.55 160.0 to 192.0	M14	(N-m) (kgf-m) (ft-lbs)	124 to 147 12.6 to 15.0 91.5 to 108.4
5/8	(N-m) (kgf-m) (ft-lbs)	203.4 to 244.1 20.74 to 24.89 150.0 to 180.0	298.3 to 358.0 30.42 to 36.51 220.0 to 264.0	M16	(N-m) (kgf-m) (ft-lbs)	196 to 225 20.0 to 23.0 145 to 166



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REMOVING THE BACKHOE

REMOVAL OF THE BACKHOE

CAUTION

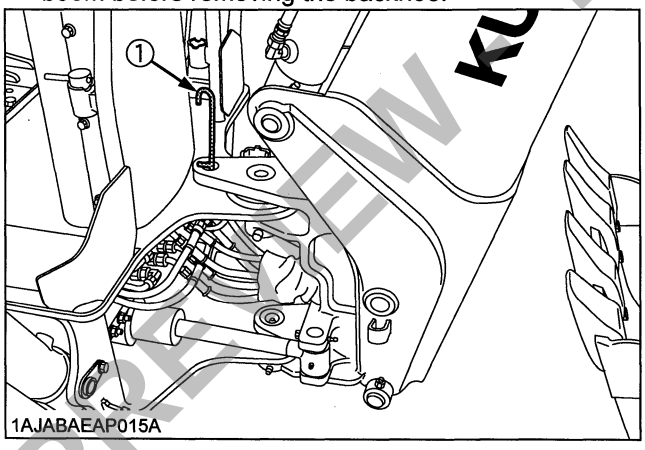
To avoid personal injury:

- **When starting the engine, always sit in the tractor operator's seat.**
- **When getting off the tractor, make sure that PTO lever is off and range gear shift lever is in neutral. Then set the parking brake.**
- **Keep hands, feet and body from between tractor and backhoe. Never allow any part of body under the machine.**
- **When leaving the backhoe operator's seat, fully lower the boom to the ground.**
- **When removing the backhoe set the swing lock pin.**

IMPORTANT :

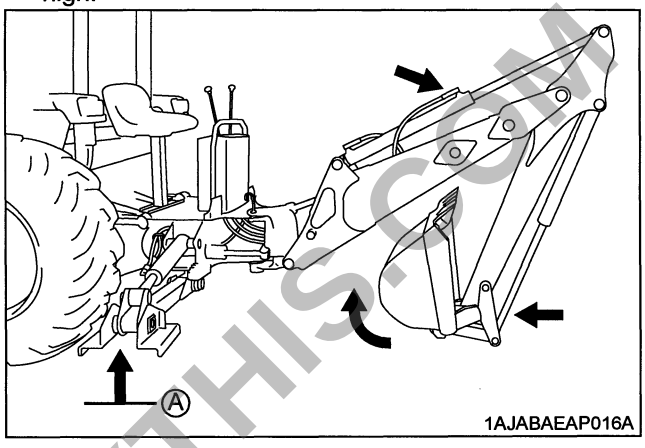
- When removing the backhoe, set the engine speed low idle.
- For removing the backhoe, locate the tractor / loader / backhoe on a flat level and hard surface, preferably concrete.
  If the surface is soft, place a board on the ground for the bucket and stabilizers.

1. Set the swing lock pin to prevent the pivoting of the boom before removing the backhoe.



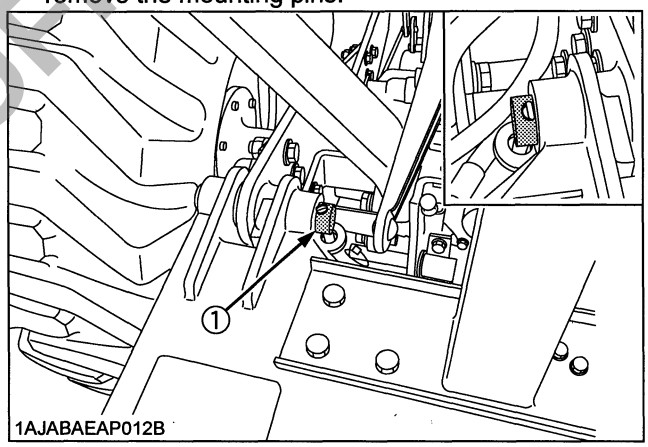
(1) Swing lock pin

2. Stand beside the rear tire, fully close the dipperstick, curl the bucket and lower the boom until the back of bucket contacts the ground.
3. Keep the stabilizer pads at about 381 mm (15.0 in.) high.



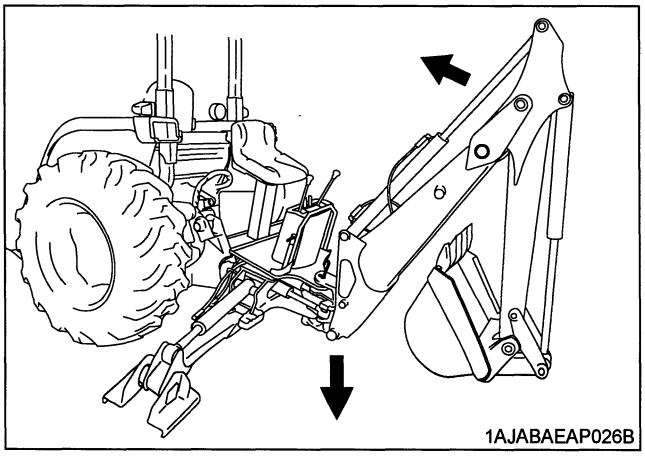
(A) 381 mm (15.0 in.)

4. Raise the rear wheels slightly with the boom and remove the mounting pins.



(1) Mounting pin

5. Slowly raise the boom to disengage the backhoe from the tractor.



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OPERATING INSTRUCTIONS

OPERATING SPEED

CAUTION

To avoid personal injury:

- **Use care when operating on slopes to avoid tip-over. Travel at speed compatible with safe operation, especially when operating in uneven terrain, crossing ditches or while turning.**

1. This backhoe can be operated at any engine speed from about 75% of rated rpm to factory rated rpm. The backhoe is most efficient at rated engine speed. However, in special digging conditions, for optimal fuel economy, or in residential neighborhood where noise may be a consideration, the engine speed can be lowered to about 75% of rated rpm.
2. When operating in temperature below 0 ℃ (32 ℉), run the tractor engine below about 50% of rated rpm until the oil temperature exceeds 0 ℃ (32 ℉).

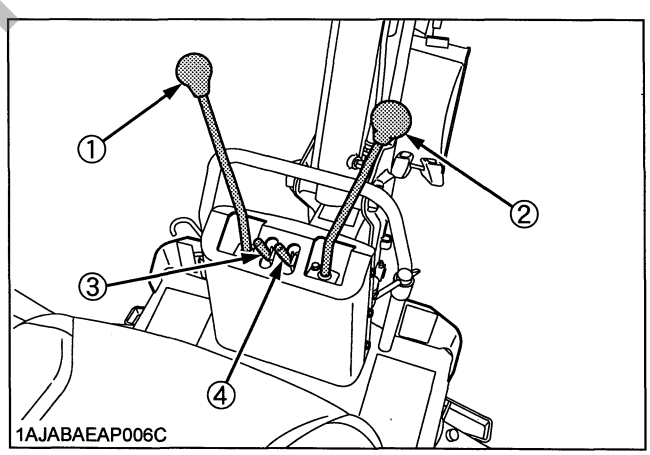
BACKHOE CONTROLS

CAUTION

To avoid personal injury:

- **For all excavation work, operate the backhoe from the backhoe operator's seat only.**
- **Do not tamper with any backhoe control valve relief pressure setting.**
  The relief valve is preset at the factory. Changing the setting can cause overloading of the backhoe and the tractor and serious personal injury may result.

The backhoe is controlled by using the two lever "joystick" system. The left lever controls the boom and swing circuits, and the right lever controls the dipperstick and bucket circuits. The further the levers are moved from neutral, the faster the component will move. Learn the feature of the controls for smooth and precise component movement.



(1) Boom and swing lever
(2) Dipperstick and bucket lever
(3) Stabilizer control lever, left
(4) Stabilizer control lever, right

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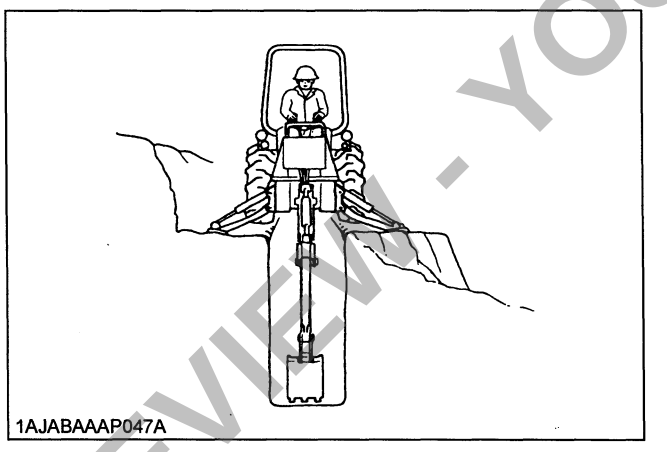
PLACING THE STABILIZERS

CAUTION

To avoid personal injury:

- **When working on slopes, one stabilizer may be lower than the other. Use extreme care during excavation as risk of overturn will increase.**
- **When digging on a hillside, always dump the bucket on the uphill side of excavation.**
- **To reduce the risk of overturn on a slope, place the spoil to the high side of the excavation.**

1. Lower the stabilizers and remove the weight of the backhoe from the rear wheels. However, one or both rear tires should remain in light contact with the ground. This will give the backhoe the widest possible stance and the lowest center of gravity.
   If the rear wheels are raised too high, digging depth will be reduced and undue stress will be exerted on the backhoe frame components.
   If the slope is unusually steep, cut a level surface with the loader and pile the spoil on the downhill side. Backdrag and pack the spoil so it will support the stabilizer on the low side. This procedure is recommended when a wall, tree line or other obstruction prevents placing backhoe spoil on the high side of the excavation.


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2. The loader bucket should be lowered to give the backhoe unit a "tri-pod" stance. With the loader bucket in ground contact, front tire bounce will not be a factor in overall control. When possible, the loader bucket cutting edge should be lowered vertically into the ground surface. This will assist the stabilizers, not allowing the unit to shift, while excavating. However, on a slope, the bottom of the bucket should be used, and only the side that contacts the uneven terrain. Too much loader down pressure, on a slope, will restrict the unit from being correctly leveled and will place an undue twist through the loader bucket and lift arms.

GENERAL BACKHOE OPERATION

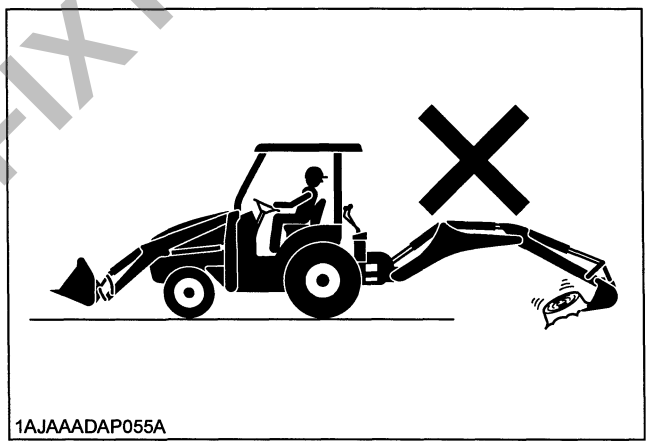
CAUTION

To avoid personal injury:

- **Do not dig under the stabilizer or tractor, especially in soft or sandy conditions.**
  Take extra precaution in wet or thawing ground. These conditions can become unstable very quickly and may collapse under the weight of the machine and may tip over.
- **Use care for buried material such as electrical, telephone, gas and water lines. When in doubt, contact local utility companies for their buried location.**

IMPORTANT :

- Do not use the tractor to pull out tree stumps with the boom dipper extended and the bucket in its crowded position.


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■Dipperstick Digging

Lower the bucket to the ground, the same as with bucket digging, then curl until the bucket teeth are flat on the ground.

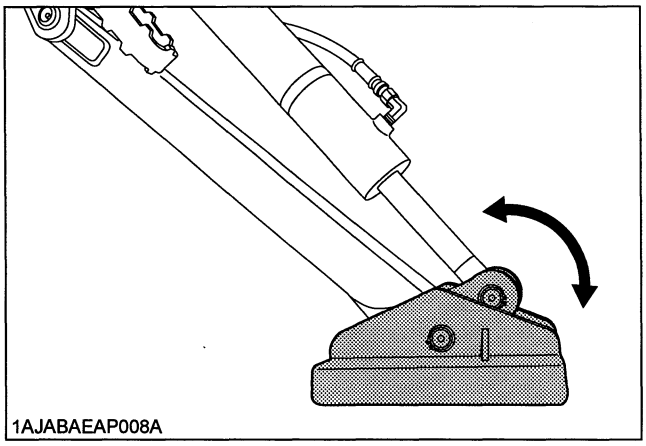
Using only the crowd cylinder, retract the dipperstick, dragging the bucket through the trench until it is approximately half full. Begin to curl the bucket in while continuing to crowd in, until the bucket is completely full. Raise and swing the boom and dump the bucket in the spoil area on the high side of the trench or excavation.

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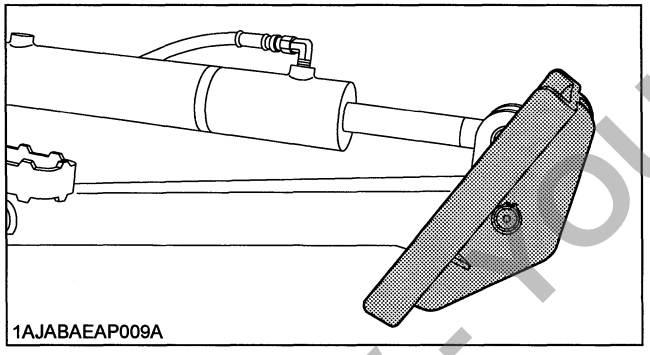
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■Stabilizer pads

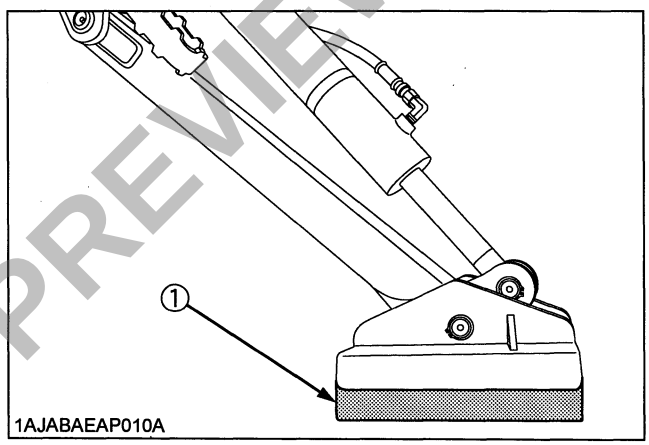
The stabilizer pads can be reversed without the use of tools. Change the pads depending on the job.



◆ **When operating in dirt to prevent slippage.**



◆ **When operating on street to prevent damage to work area.**



(1) Rubber shoes (option)

IMPORTANT :

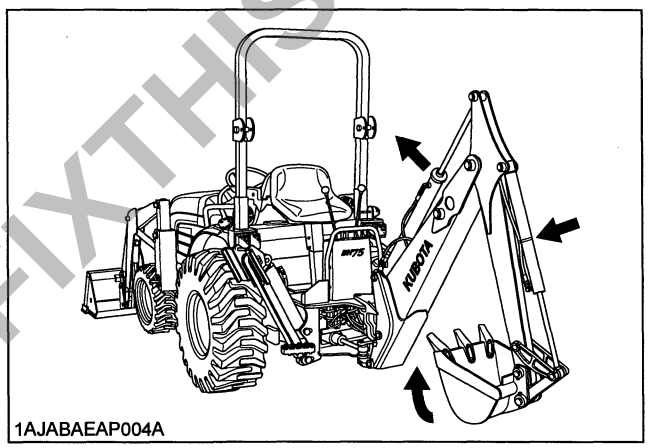
- Always lower stabilizers slightly when changing from one position to another to avoid soil splash.

TRANSPORTING

⚠ CAUTION

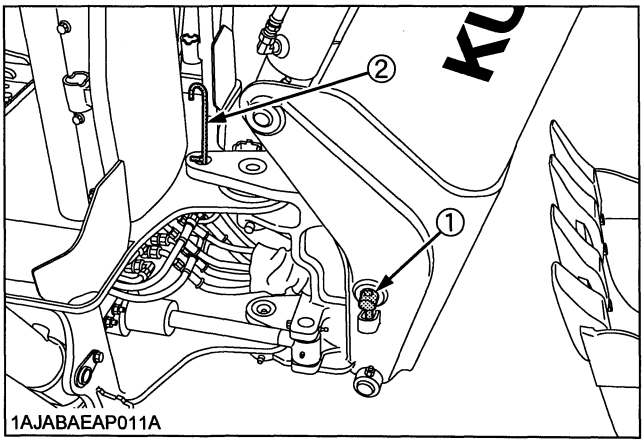
To avoid personal injury:

- **Before transporting the machine, raise and center the boom, close the dipperstick, curl the bucket and engage the boom and swing locks.**
- **Always securely fasten the tractor / loader / backhoe, with chains and chain binders, to transport vehicle.**
  Determine and note the load height of the backhoe, for underpass clearance, before transporting.



■Driving to the Job-site

When driving or transporting from one job-site to another, or when using the loader such as stockpiling and backfilling, always engage the boom and swing locks.



(1) Boom lock pin
(2) Swing lock pin

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