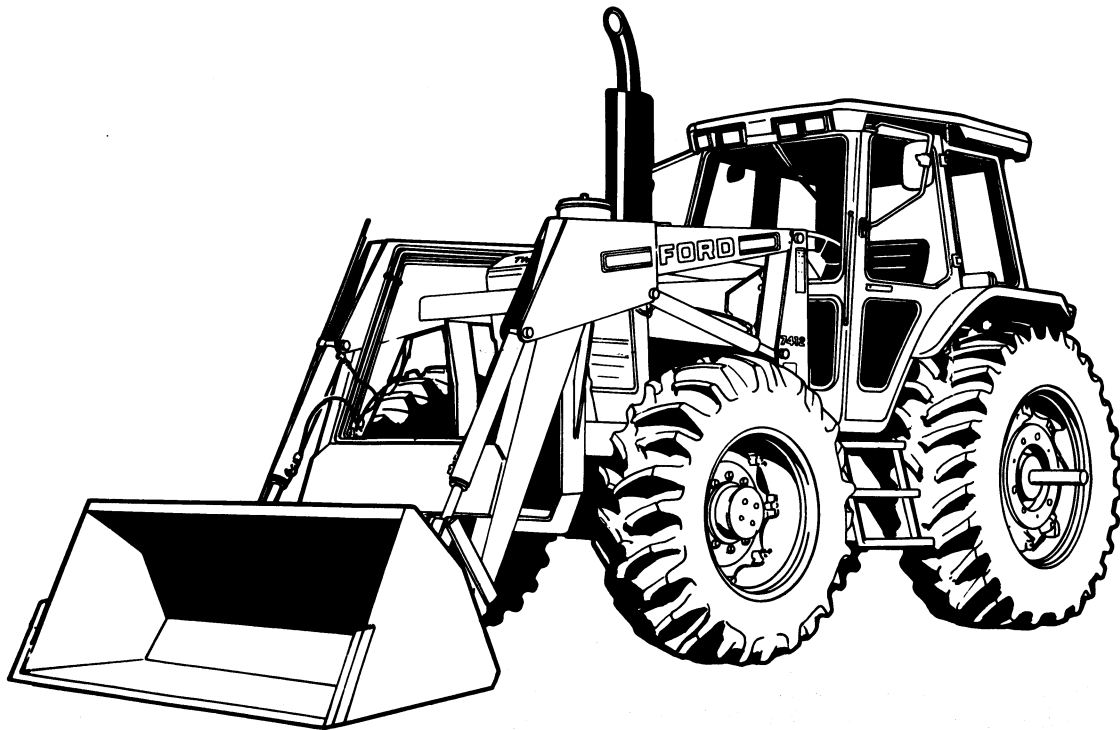


FORD

Series 7412

Quick Attach Farm Loader

42741210



OPERATOR'S MANUAL

Reprinted

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OWNER ASSISTANCE

We at Ford New Holland and your Ford New Holland dealer want you to be completely satisfied with your investment. Normally any problems with your equipment will be handled by your dealer's Service Department. Sometimes, however, misunderstanding can occur. If your problem has not been handled to your satisfaction, we suggest the following.

1. Contact the owner or General Manager of the dealership, explain the problem, and request assistance. When additional assistance is needed, your dealer has direct access to our branch office.
2. If you cannot obtain satisfaction by doing this, contact the Ford New Holland branch office in your area and provide them with:
 - Your name, address, and telephone number
 - Machine model and serial number
 - Dealership name and address
 - Machine purchase date and amount of use
 - Nature of problem

Atlanta

2000 Mountain Ind. Blvd.
Tucker, GA 30084
Telephone: (404) 491-3499

New Holland

500 Diller Avenue
New Holland, PA 17557
Telephone: (717) 354-1112

Calgary

Box 1616, Main P.O.
Calgary, AB
CANADA T2P 2M7
Telephone: (403) 273-6771

Dallas

P.O. Box 10227
Dallas, TX 75207
Telephone: (214) 939-4950

Oakland

P.O. Box 12964
Oakland, CA 94604
Telephone: (415) 273-0200

Toronto

P.O. Box 7000
Brampton, ON
CANADA L6V 2M9
Telephone: (416) 457-2720

Kansas City

P.O. Box 14550
Lenexa, KS 66219
Telephone: (913) 888-7000

Troy

1315 Coolidge Avenue
Troy, MI 48084
Telephone: (313) 637-9382

Minneapolis

P.O. Box 1342
Minneapolis, MN 55440
Telephone: (612) 887-4232

3. If you need further assistance:

*Consumer Services Department
Mail Station 500
Ford New Holland, Inc.
New Holland, PA 17557
Telephone: (717) 354-1545*

When contacting Ford New Holland's branch office or Consumer Services Department, be aware that your problem will likely be resolved in the dealership using the dealer's facilities, equipment, and personnel. So it is important that your initial contact be with the dealer.

INTRODUCTION

This manual provides operation, maintenance, assembly and parts identification for your new loader.

The Ford 7412 Loader with Quick Attach Feature is designed for use on Ford 7710, 8210, TW-5 and TW-15 TWD and FWD tractors.

Successful operation and long life of the loader depends, of course, on proper operation and the care given it. Please read this manual carefully and follow the instructions. Correct operation and maintenance will save much time and expense.



This **SAFETY ALERT SYMBOL** identifies **IMPORTANT SAFETY MESSAGES** in this manual. **OBSERVE** and **FOLLOW** all **SAFETY MESSAGES** to prevent personal **INJURY**.

The reference to left-hand and right-hand used in this manual refers to the position when standing at the rear of the unit facing forward.

If, at any time, you have a service problem with your loader, or need new parts, contact your local Ford Tractor and Equipment Dealer.

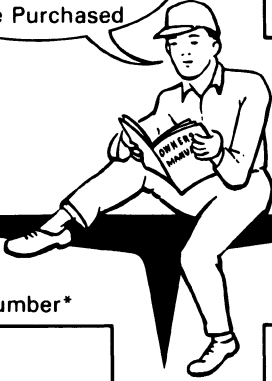
Your dealer will need the loader model number and serial number to give you prompt efficient service.

Fill in Serial Number, Model Number, and Date Purchased

Model Number

Serial Number*

Date Purchased



* The serial number is located on the inside of the left-hand boom arm.



Series 7412 Loader Mounted on a Ford Tractor

SAFETY PRECAUTIONS

The following precautions are suggested to help prevent accidents.

A careful operator is the best operator. Most accidents can be avoided by observing certain precautions. Read and take the following precautions before operating the tractor and this loader to help prevent accidents. Equipment should be operated only by those who are responsible and instructed to do so.

GENERAL

1. Read the Operator's Manual carefully before using the tractor or loader. Lack of operating knowledge can lead to accidents.
2. Replace damaged or illegible safety decals. See page 35 for required decals.
3. Operate tractor and loader only from the operator's seat.

THE TRACTOR

1. Use an approved roll bar and seat belt for safe operation. Overturning a tractor without a rollbar can result in death or injury. If your tractor is not equipped with a rollbar and seat belt, see your Tractor Dealer.
2. Equip your tractor with FOPS (Falling Object Protective Structure) before installing or operating the loader.
3. Always use the seat belt when the rollbar is installed. Do not use the seat belt if the rollbar is removed from the tractor.
4. Add recommended wheel ballast and/or rear weight as recommended in owner's manual to provide good stability.
5. Move the wheels to the tractor manufacturer's widest recommended settings to increase stability.
6. Move and turn the tractor at low speeds.

THE LOADER

1. Improper use of a loader can cause serious injury or death.
2. Do not lift or carry anybody on the loader or in the bucket or attachment.
3. Never allow anyone to get under the loader bucket or reach through the lift arms when the bucket is raised.
4. Do not walk or work under a raised loader or bucket or attachment unless it is securely blocked or held in position.
5. Avoid overhead wires and obstacles when loader is raised. Contacting electric lines can cause electrocution.
6. Make sure all parked loaders are on a hard, level surface. Engage all safety devices.

OPERATING THE LOADER

1. It is the loader owner's responsibility to be certain anyone operating the loader has read this manual first to be aware of the safe way of operating the loader.
2. Exercise caution when operating the loader with a raised loaded bucket or fork.
3. Avoid loose fill, rocks and holes. They can be dangerous for loader operation or movement.
4. Use care when operating on steep grades to maintain proper stability. Always carry the bucket as low as possible.

5. Allow for the loader length when making turns.
6. Stop the loader arms gradually when lowering or lifting.
7. Use caution when handling loose or shiftable loads.
8. Carry bucket at a low position during transport for better visibility.
9. When parking or servicing, lower bucket to ground, stop engine and set park brakes before leaving the tractor seat.
10. Operate the loader controls only when properly seated at the controls.
11. Using front end loaders without special attachments for handling large heavy objects, such as large round or rectangular bales, logs and oil drums, is **NOT RECOMMENDED**.
12. Handling large heavy objects can be extremely dangerous due to:
 - Danger of rolling the tractor over.
 - Danger of upending the tractor.
 - Danger of the object rolling or sliding down the loader arms onto the operator.
13. If you must perform this sort of work (see 12 above), protect yourself by:
 - Using the proper attachment.
 - Never lifting the load higher than necessary to clear the ground when moving.
 - Ballasting the tractor rear to compensate for the load.
 - Never lifting large objects with equipment that does not have an anti-rollback device.
 - Moving slowly and carefully, avoiding rough terrain.

MAINTENANCE

1. When servicing or replacing pins in cylinder ends, buckets, etc., always use a brass drift and hammer. Failure to do so could result in injury from flying metal fragments.
2. Do not modify or alter or permit anyone else to modify or alter the loader or any of its components or any loader function without first consulting a Ford Tractor Dealer. If you have any questions regarding loader modifications contact Ford New Holland Inc.
3. Always wear safety goggles when servicing or repairing the machine.
4. Escaping hydraulic/diesel fluid under pressure can penetrate the skin causing serious injury.
 - **DO NOT** use your hand to check for leaks. Use a piece of cardboard or paper to search for leaks.
 - Stop engine and relieve pressure before connecting or disconnecting hydraulic or diesel lines.
 - Tighten all connections before starting engine or pressurizing lines.
 - If any fluid is injected into the skin, obtain medical attention immediately or gangrene may result.
5. Do not tamper with the relief valve setting. The relief valve is pre-set at the factory. Changing the setting can cause overloading the loader and tractor and serious operator injury may result.

Whenever you see this symbol



it means: **ATTENTION!**

BECOME ALERT!

YOUR SAFETY IS INVOLVED!

OPERATION

PREPARING TRACTOR PRIOR TO OPERATION



WARNING: Read the operator's manuals before inspecting, servicing or operating the loader and tractor.

INSPECTION

Thoroughly inspect the fully assembled loader and tractor prior to operation.

1. Check all hardware to be sure that it has been properly installed and tightened. Retighten all hardware after the first 10 hours of operation.
2. Check tire pressure. Refer to the tractor operator's manual for recommended pressures.
3. Review tractor lubrication schedule and consult MAINTENANCE section of this manual to be certain that all pivot points have been properly lubricated.
4. Use the method described in MAINTENANCE section of this manual to check all hose and tubing connections to insure that no leaks are present.
5. Be sure the FOPS (Falling Object Protective Structure) is installed.

INSTALL COUNTERBALANCE



WARNING: Before operating a tractor with a loader, add sufficient counterweight so that a minimum of 25% of the total weight of tractor and loader is on the rear wheels when bucket contains rated load and is in maximum forward position.

Sufficient weight can be added to the tractor by filling the rear wheels with liquid ballast, installing wheel weights or 3-point hitch counterweight. If 3-point hitch counterweights are used, they should be carried as low as possible at all times to maximize stability.

The effective counterbalance weight of mounted rear equipment is determined by multiplying the actual weight of equipment by 1.50.

EXAMPLE: Equipment weighing 800 pounds, attached to the rear of the tractor, multiplied by 1.50, equals 1200 pounds of effective counterbalance weight.

After adding the recommended counterweight, weigh the tractor at the rear axle to be sure the counterbalance is adequate. With the bucket empty and in the carry position, the minimum tractor rear axle weight should be 10,000 lbs. for the TW-5 & TW-15 TWD & FWD tractors; 7,800 lbs. for the 8210 TWD & FWD tractors; and 7200 lbs. for the 7710 TWD & FWD series Ford tractors.

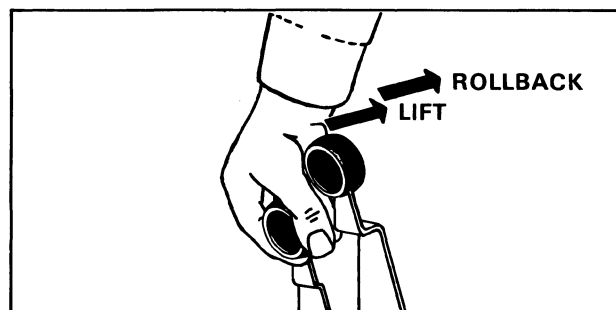
OPERATING LOADER

The loader should be operated with the tractor engine running at 1700-2200 rpm. Excessive speeds are dangerous, and may cause bucket spillage and unnecessary strain on the tractor and loader.

When operating in temperatures below 30°F., run the tractor engine below 1200 rpm until the oil temperature exceeds 30°F.

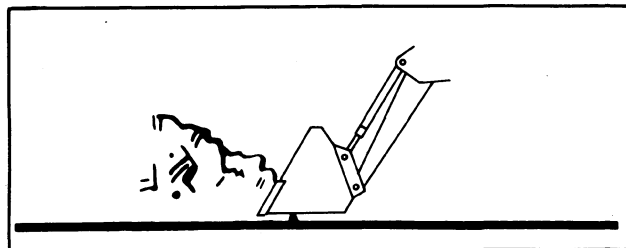
The following text and illustrations offer suggested loader and tractor operating techniques.

Ease both levers of tractor remote valve up to lift and rollback the bucket.

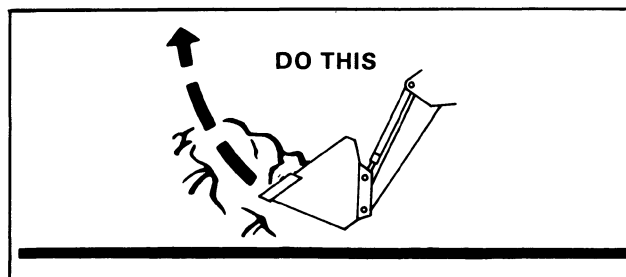


● FILLING THE BUCKET

Approach and enter the pile with a level bucket.

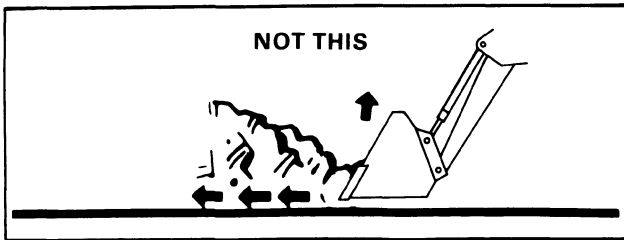


The lift and rollback of the bucket will increase efficiency because . . .



OPERATION

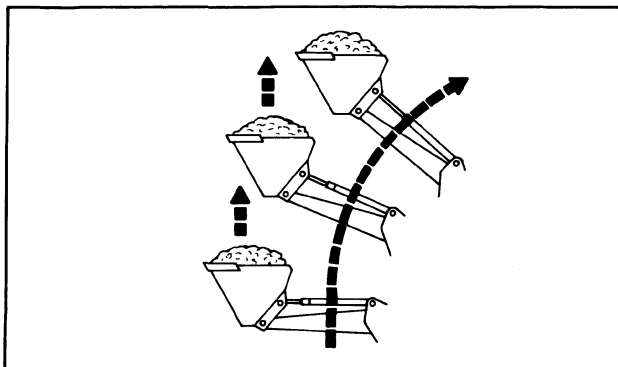
... a level bucket throughout the lifting cycle resists bucket lift and increases breakaway effort.



NOTE: Do not be concerned if the bucket is not completely filled during each pass. Maximum productivity is determined by the amount of material loaded in a given period of time. Time is lost if two or more attempts are made to fill the bucket on each pass.

● LIFTING THE LOAD

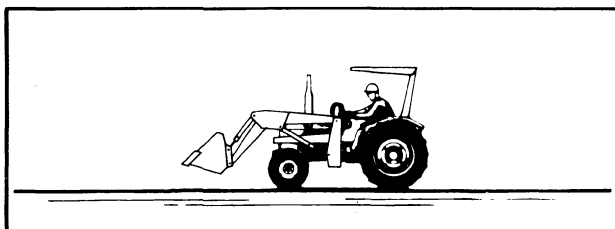
When lifting the load, keep the bucket positioned to avoid spillage.



CAUTION: Do not attempt to lift bucket loads in excess of the loader capacity.

● CARRYING THE LOAD

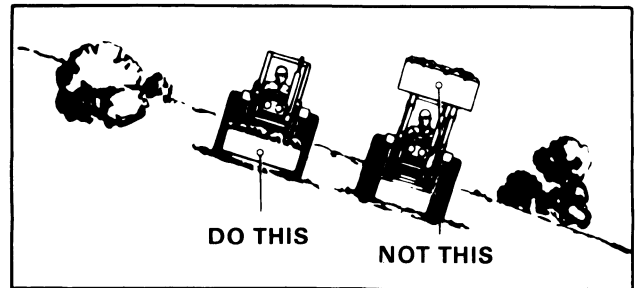
Position the bucket just below the level of the tractor hood for maximum stability and visibility, whether the bucket is loaded or empty.



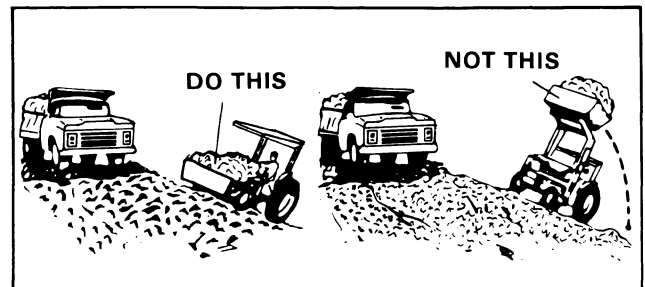
Use extreme care when operating the loader on a slope, keep the bucket as low as possible. This keeps the bucket and tractor center of gravity low and will provide maximum tractor stability.



WARNING: Operating the loader on a hillside is dangerous. Extreme care is recommended to avoid overturn.

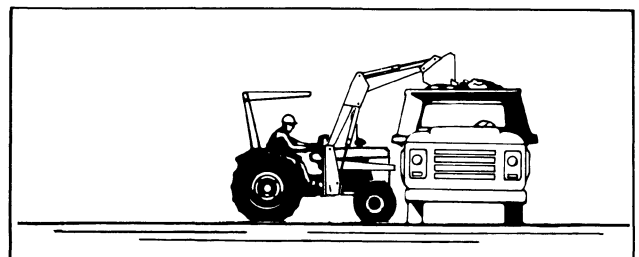


When transporting the load, keep the bucket as low as possible to avoid tipping, in case a wheel drops in a rut.



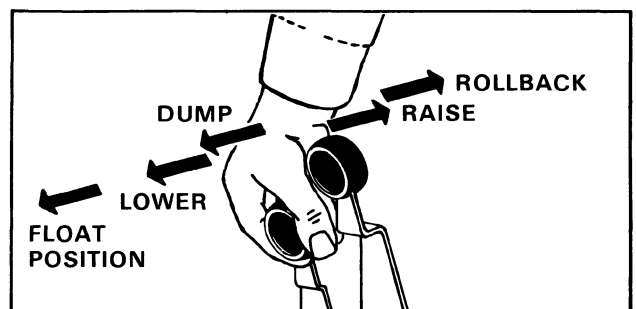
● DUMPING THE BUCKET

Lift the bucket high enough to clear the side of the vehicle. Move the tractor in as close to the side of the vehicle as possible, then dump the bucket.



● LOWERING THE BUCKET

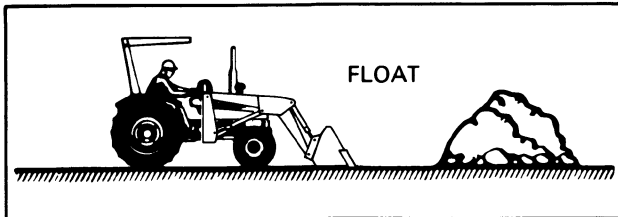
After the bucket is dumped, back away from the vehicle while lowering and rolling back the bucket.



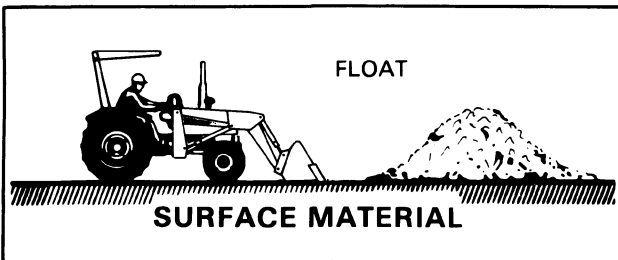
OPERATION

● OPERATING WITH FLOAT CONTROL

During hard surface operation, keep the bucket level and put the lift control in the float position to permit the bucket to float on the working surface. If hydraulic down pressure is exerted on the bucket it will wear faster than normal.

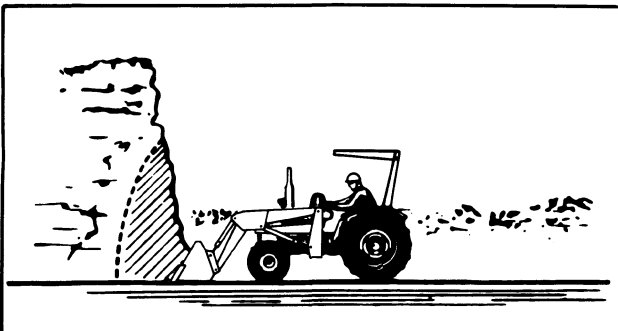


The float will also prevent the mixing of surface material with stockpile material. The float position will reduce the chance of surface gouging when removing snow or other material, or when working with a blade.

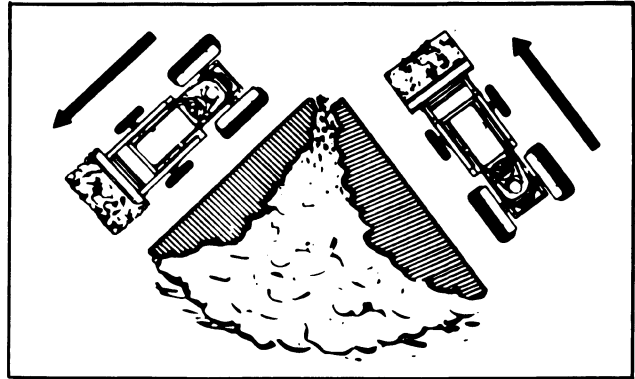


● LOADING FROM A BANK

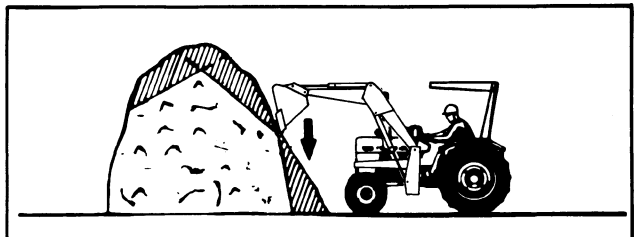
Choose a forward gear that provides sufficient ground speed for loading.



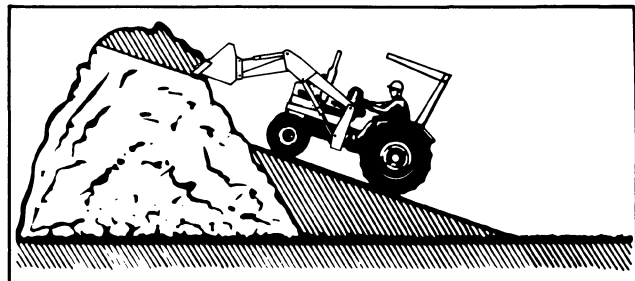
Exercise caution when undercutting high banks. Dirt slides can be dangerous. Load from as low as possible for maximum efficiency. Loader lift and break-away capacity diminish as loading height is increased.



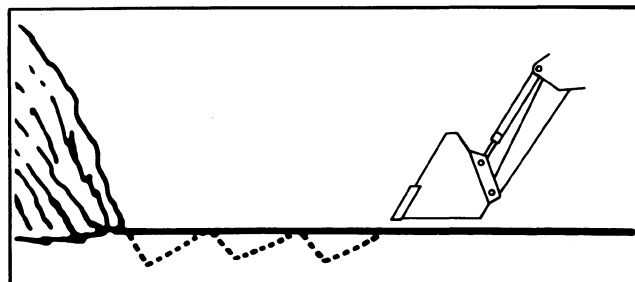
Sidecutting is a good technique for cutting down a big pile.



If the pile sides are too high and liable to cause cave-in, use the loader to break down the sides until a slot can be cut over the top.



Another method for large dirt piles is to build a ramp approach to the pile.



It's important to keep the bucket level when approaching a bank or pile. This will help prevent gouging the work area.

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