

# FORD



**FORD**

**NEW HOLLAND**

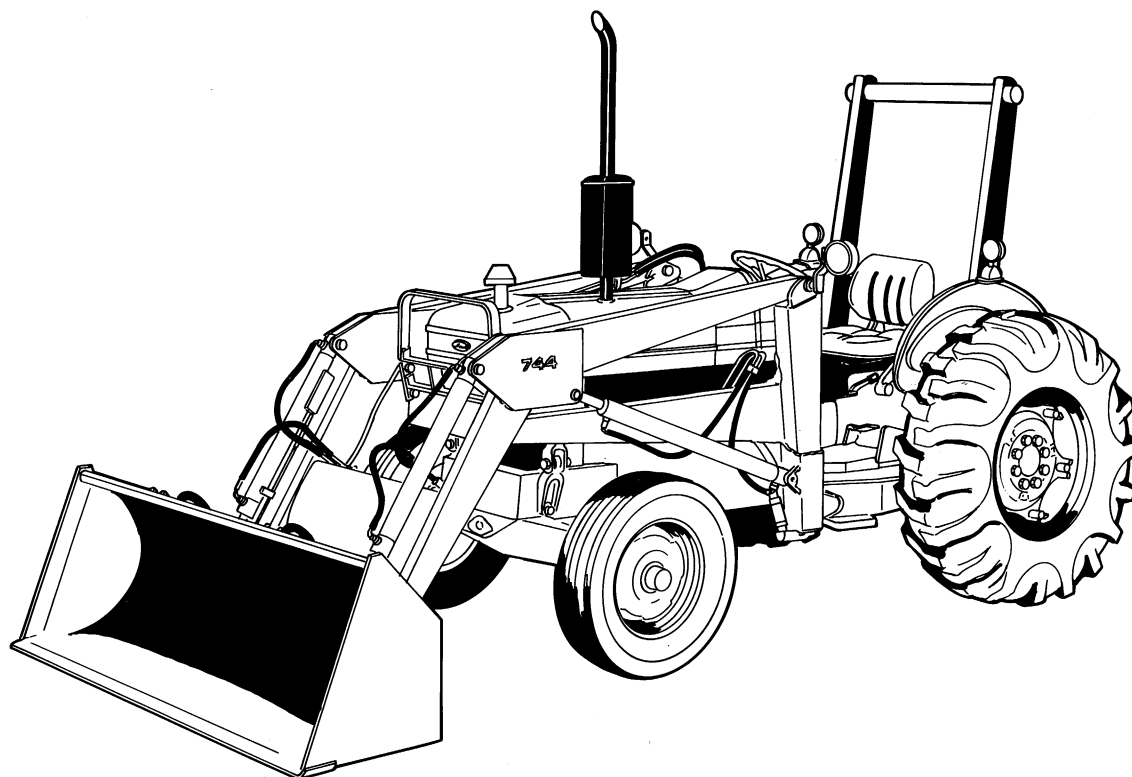
## Operator's Manual

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### Series 744 Loader

With Installation Information  
For Ford 250C and 260C Tractors

43074410



Reprinted

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# FOREWORD

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Your new loader has been designed, built and tested to assure the highest quality, give maximum strength and long life for every part.

This manual has been prepared to assist you in the proper break-in, daily care and operation of your new Series 744 Loader. It contains specific information on its many features; the attachments that are available; instructions for making minor repairs and adjustments; safety precautions; general specifications; suggested operating techniques; the pre-delivery and 50-hour checklist.

Your new Series 744 Loader has been carefully inspected before leaving the factory and by your Ford New Holland Dealer prior to delivery to see that it is "ready to go". To keep it in this "ready to go" condition, it is important to follow regularly-scheduled service periods as recommended in this manual.

When referring to the loader, all references to left and right are as viewed from the tractor's operator seat.

Read this manual carefully before operating your Series 744 Loader and keep it in a convenient location for future reference. If, at any time, you have a service problem concerning your new loader, remember that your Ford New Holland Dealer has trained service personnel, genuine Ford New Holland parts, and the necessary tools and equipment to best satisfy your service needs.

Ford New Holland, Inc. recommends that you equip your tractor-loader with a Roll Over Protective Structure (ROPS) and seat belts. ROPS are effective in reducing injuries during tractor overturn accidents. Overturning a tractor without a ROPS can result in serious injury or death.

Roll Over Protective Structure (ROPS) and seat belts are available for your Ford tractor. If your tractor is not equipped with a ROPS and seat belts, see your Ford New Holland Dealer.

"Ford New Holland, Inc. whose policy is one of continuous improvement, reserves the right to make changes in design and specifications at any time without notice and without obligation to modify units previously built."

## **SERVICE AND PARTS CATALOG**

Ford New Holland, Inc. is pleased to announce the availability of service and parts catalogs to owners of Ford New Holland tractors and equipment.

To obtain these catalogs, merely fill out the order form available from your local authorized Ford New Holland Dealer.

# OWNER ASSISTANCE

We at Ford New Holland, Inc. 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, Inc. 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) 723-3602

## **New Holland**

500 Diller Avenue  
New Holland, PA 17557  
Telephone: (717) 355-3951

## **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) 939-4919

## **Fairfield**

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Fairfield, CA 94533  
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Telephone: (519) 767-4836

## **Kansas City**

P.O. Box 14550  
Lenexa, KS 66219  
Telephone: (913) 894-3387

## **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 contact:

*Consumer Services Department  
Mail Station 500  
Ford New Holland, Inc.  
New Holland, PA 17557  
Telephone: (717) 355-1545*

When contacting Ford New Holland, Inc.'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.

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# 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 this tractor 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 your loader. Lack of operating knowledge can lead to accidents.
2. Use an approved roll bar and seat belt for safe operation. Overturning a tractor without a roll bar can result in death or injury. If your tractor is not equipped with a roll bar and seat belt, see your Ford New Holland Dealer.
3. Always use the seat belt with the roll bar. Do not use the seat belt if the roll bar is removed from the tractor.
4. Use handleholds and step plates when getting on and off the tractor to prevent falls. Keep steps and platform clear of mud and debris.
5. Do not permit anyone but the operator to ride on the tractor. There is no safe place for extra riders.
7. Replace all missing, illegible, or damaged safety decals. See list of decals on page 31.
8. Keep safety decals clean of dirt and grime.

## OPERATING THE TRACTOR

2. Apply the parking brake, place the PTO lever in the "OFF" position, the lift control lever in the neutral position, the remote control valve levers in the neutral position, and the transmission in neutral before starting the tractor.
2. Do not start the engine or operate controls while standing beside the tractor. Always sit in the tractor seat when starting the engine or operating controls.
3. Do not by-pass the neutral start switch. Consult your Ford New Holland Dealer if your neutral start controls malfunction. Use jumper cables only in the recommended manner. Improper use can result in tractor runaway.
4. Avoid accidental contact with the gearshift lever while the engine is running. Unexpected tractor movement can result from such contact.
5. Do not get off the tractor while it is in motion.
6. Remove the starter key, shut off the engine and apply the parking brake before getting off the tractor.
7. Never leave the unit when it is parked on an incline. Always park the unit on level ground where possible. If the unit is to be parked on an incline, always lower the buckets so that the cutting lips contact the ground, apply the parking brake, and securely block the wheels.
8. Do not operate the tractor engine in an enclosed building without adequate ventilation. Exhaust fumes can cause death.
9. If power steering or engine ceases operating, stop the tractor immediately.
10. Do not leave equipment in the raised position.
11. Use the Flasher/Turn Signal Lights and SMV signs when traveling on public roads both day and night unless prohibited by law.
12. Be sure the lights are adjusted to prevent blinding an oncoming vehicle operator.

## DRIVING THE TRACTOR

1. Drive the tractor with care and at speeds compatible with safety, especially when operating over rough ground, when crossing ditches, slopes, and when turning to avoid upsets.
2. Lock tractor brake pedals together when transporting on roads to provide two wheel braking.
3. Keep the tractor in the same gear when going downhill as used when going uphill. Do not coast or free wheel downhill.
4. When the tractor is stuck or tires are frozen to the ground, back up the tractor to prevent upset.
5. Always check overhead clearance, especially when transporting the tractor.

## LOADER OPERATION

1. Always be sure of water, gas, sewage and electrical line locations before you start operation.
2. Watch out for overhead and underground high-voltage electrical lines when operating the loader.
3. Operate the loader controls only when properly seated at the controls.
4. Never attempt to lift loads in excess of loader capacity.
5. Never allow anyone to get under the loader bucket or reach through the lift arms when the bucket is raised.
6. Always be watchful of bystanders when lowering or operating the loader.
7. Use care when operating on steep grades to maintain proper stability; also drive at speeds compatible with safety, especially when operating over rough ground, crossing ditches, slopes, or when turning. Always carry the bucket as low as possible.
8. Never attach chains, ropes, cables, etc., to the ROPS or loader for pulling purposes.
9. Do not transport anyone in the loader bucket.
10. Always transport a load with the bucket as low as possible.
11. Always use the recommended amount of counterweighting to ensure good stability.
12. Be careful when handling round objects such as round bales, poles, etc. Lifting too high or rolling bucket too far back could result in these objects rolling rearward down the loader arms onto the operator.
13. Never allow anyone to get under the loader bucket or reach through the lift arms when the bucket is raised.
14. Exercise caution when operating the loader with a raised loaded bucket or fork.

# SAFETY PRECAUTIONS (Cont.)

## MAINTENANCE

1. Never make repairs or tighten hydraulic hoses or fittings when the system is under pressure, when the engine is running, or when the loader or backhoe cylinders are under a load.
2. Always keep the brakes and power steering system in good operating condition.
3. Do not lubricate or make mechanical adjustments while the unit is in motion or when the engine is running. However, if minor engine adjustments must be made, apply the parking brake, securely block the wheels, and use extreme caution. Be certain that the loader is fully lowered or supported so that it cannot fall.
4. For safe operation, observe the proper maintenance and repair of all pivot pins, hydraulic cylinders, hoses, snap rings, and main attaching bolts prior to each days operation.
5. Always wear safety goggles when servicing or repairing the machine.
6. When necessary to tow the tractor, do not exceed 5 mph (8.0 kph). Avoid towing the tractor over long distances.
7. Adequately block up the loader when it is detached from the tractor.
8. Whenever servicing or replacing pins in cylinder ends, buckets, etc., always use a brass drift and a hammer. Failure to do so could result in injury from flying metal fragments.

## ROPS MAINTENANCE

Your ROPS must be maintained in a servicable condition. Be careful when driving through doorways or working in a confined space with low headroom.

### Under no circumstances

1. —modify, drill or alter the ROPS in any way as doing so could render you liable to legal prosecution.
2. —attempt to straighten or weld any part of the main frame or retaining brackets which have suffered damage. By doing so you may weaken the structure and endanger your safety.
3. —secure any parts on the main frame or attach your ROPS with other than the special high tensile bolts and nuts specified.
4. —attach chains or ropes to the ROPS for pulling purposes.
5. —take unnecessary risks even though your ROPS affords you the maximum portion possible.

Whenever you see this symbol



it means:

**ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!**

## — GENERAL INFORMATION —

### GENERAL INFORMATION

This manual contains information pertaining to the Series 744 Loader for the Ford 250C and 260C tractors, Figure 1.

The Series 744 Loader is shipped in three kits as follows:

- 2800 lb. loader frame and lift arms, double-acting lift and bucket cylinders, control valve (with float position) and attaching hardware.

- Hydraulic pump kit
- Hydraulic pump drive kit

**NOTE:** Loader buckets and attachments are not included and must be ordered separately.

**IMPORTANT:** The Series 744 Loader is NOT compatible on tractors equipped with horizontal exhaust or LCG tires.



**Figure 1**  
**Series 744 Loader Installed On A Ford 250C**  
**Industrial Tractor**

- |                      |                  |                     |
|----------------------|------------------|---------------------|
| 1. Control Lever     | 3. Lift Arm      | 5. Bucket Cylinders |
| 2. Loader Frame Post | 4. Lift Cylinder | 6. Bucket           |

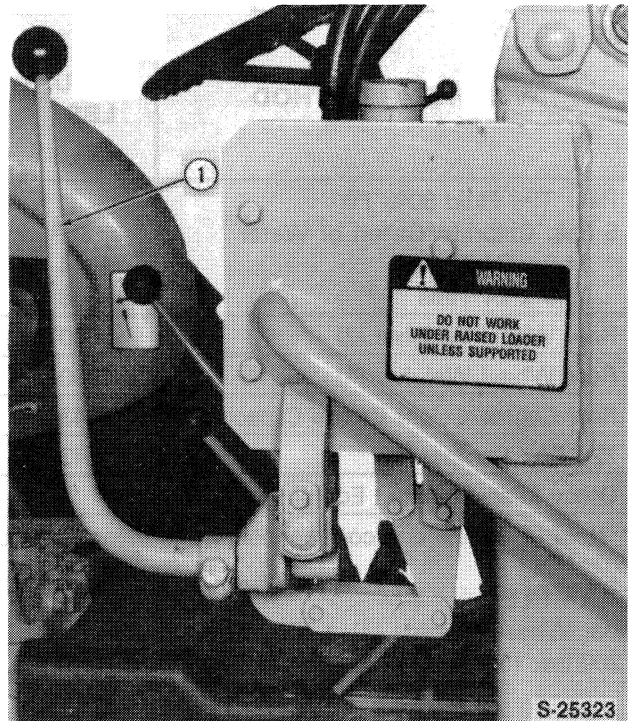
## — CONTROLS —

### LOADER CONTROLS

A single control lever (1), Figure 2, controls the raising and lowering of the lift arms, and the rollback and

dumping of the bucket. In addition to the four basic movements, a "float" is included.

The "float" position enables the lift arms and bucket to follow the contour of the ground and is initiated by moving the control lever full forward into the detent position. The lever will remain in the "float" position until it is moved manually to the neutral position.



**Figure 2**  
**Loader Control Lever**  
1. Control Lever

— COUNTERWEIGHTING —

**COUNTERWEIGHTING**

Before putting the loader into operation it is necessary to add additional counterweight to the rear of the tractor for safe operation.

To obtain sufficient counterbalance for loader operation on the Ford 250C and Ford 260C weight can be installed on the unit in the form of a weight box, rear tire liquid ballast, rear wheel weights, or a combination of the above.

Add weight to the rear of the tractor as indicated in the following charts:

**NOTE:** *The minimum counterweight requirement of 3000 lbs. (1361 kg) may not be adequate under certain conditions. Add weight to the rear of the tractor as necessary to avoid rear tire slippage.*

If using more than one method of counterweighting, add the effective counterbalance weights (right hand column of chart) to obtain the total effective counterbalance weight. Example: using rear wheel weights (2) and a counter weight box filled to capacity would achieve an effective counterbalance weight of 3640 pounds (1651 kg.)

TRACTOR MODELS	EFFECTIVE COUNTERBALANCE WEIGHT NEEDED
250C and 260C	3000-5000 Lbs. (1361-2268 kg.)

The above weights are not actual weight but effective counterbalance weight. The effective counterbalance weights can be determined from the following chart.



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