

# FORD

**Series 745  
Loader  
Model 19-955**



# OPERATOR'S MANUAL

42074514 Reprinted

# FOREWORD

This manual has been prepared to assist you in the proper break-in, daily care and operation of your new Series 745 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 checklists.

Your Ford Series 745 Loader has been carefully inspected before leaving the factory and by your Ford Tractor Equipment Dealer prior to delivery to see 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 Ford Series 745 Loader and keep it in a convenient location for later reference. If, at any time, you have a service problem concerning your new loader, remember that your Ford Tractor Equipment Dealer has trained service personnel, genuine Ford parts, and the necessary tools and equipment to best satisfy your service needs.

"Ford Motor Company, 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 unit previously built."

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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.

## TRACTOR

1. Read the Operator's Manual carefully before using the tractor. 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.
3. Always use the seat belt with the roll bar installed. Do not use the seat belt if the roll bar is removed from the tractor.
4. If a front end loader is to be installed, always use a FOPS canopy to avoid injury from falling objects.
5. Use the handholds and step plates when getting on and off the tractor to prevent falls. Keep steps and platform cleared of mud and debris.
6. 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 23.
8. Keep safety decals clean of dirt and grime.
4. Do not get off the tractor while it is in motion.
5. Disengage PTO. Shut off the engine and apply the parking brake before getting off the tractor.
6. Always apply the parking brake and remove the starter key when leaving the unit parked or unattended.
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 suffocate you.
9. If power steering or engine ceases operating, stop the tractor immediately.

## SERVICING THE TRACTOR

1. Cooling system operates under pressure which is controlled by the radiator cap. It is dangerous to remove the cap while system is hot. Always turn cap slowly to the first stop and allow pressure to escape before removing the cap entirely.
2. Do not smoke while refueling the tractor. Keep any type of open flame away. Wait for engine to cool before refueling.
3. Keep the tractor in good operating condition for your safety. An improperly maintained tractor can be hazardous.
4. Keep open flame away from battery or cold weather starting aids to prevent fires or explosions.
5. Stop the engine before performing any service on the tractor.
6. Do not modify or alter or permit anyone else to modify or alter this tractor or any of its components or any tractor function without first consulting a Ford Tractor Equipment Dealer.
7. 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 lines.
  - Tighten all connections before starting engine or pressurizing lines.
8. If any fluid is injected into the skin obtain medical attention immediately or gangrene may result.
9. Continuous long term contact with used engine oil has caused skin cancer in animal test. Avoid prolonged skin contact with used engine oil. Wash skin promptly with soap and water.

## OPERATING THE TRACTOR

1. Apply the parking brake, and place 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 bypass the neutral start switch. Consult your Ford Tractor-Equipment Dealer if your neutral start controls malfunction. Use jumper cables only in the recommended manner, improper use can result in tractor runaway.
4. Watch where you are going especially at row ends, on roads, around trees and low hanging obstacles.
2. To avoid upsets, drive the tractor with care and at speeds compatible with safety, especially when operating over rough ground, when crossing ditches or slopes, and when turning corners.
3. Lock tractor brake pedals together when transporting on roads to provide two wheel braking.
4. Keep the tractor in the same gear when going downhill as used when going uphill. Do not coast or free wheel down hill.
5. Any towed vehicle whose total weight exceeds that of the towing tractor must be equipped with brakes for safe operation.
6. When the tractor is stuck or tires are frozen to the ground, back out to prevent upset.
7. Always check overhead clearance especially when transporting the tractor

## DRIVING THE TRACTOR

## LOADER/BACKHOE OPERATION (When Equipped)

1. Always be sure of water, gas, sewage and electrical line locations before you start to dig.
2. Watch out for overhead and underground high-voltage electrical lines when operating the loader or backhoe.
3. Operate the loader or backhoe controls only when properly seated at the controls.
4. Never attempt to lift loads in excess of loader or backhoe capacity.
5. Always lower the loader and backhoe buckets to the ground, shut off the engine and apply the parking brake before getting off the unit.
6. Always be watchful of bystanders when operating the loader, when lowering the stabilizers, or when operating the backhoe.
7. Use care when operating on steep grades to maintain proper stability. Always carry the bucket as low as possible.
8. Never attach chains, ropes, cables, etc. to the loader, ROPS or backhoe for pulling purposes.

### LOADER OPERATION

1. Do not transport anyone in the loader bucket.
2. Always carry the loader bucket low for maximum stability and visibility, whether the bucket is loaded or empty.
3. Always use the recommended amount of counterweighting to ensure good stability.
4. 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 on the operator.
5. Never allow anyone to get under the loader bucket or reach through the lift arms when the bucket is raised.
6. Exercise caution when operating the loader with a raised load- ed bucket or fork.

### BACKHOE OPERATION

1. Never allow anyone to get under the backhoe bucket when the bucket is raised.
2. To prevent upsets, avoid full reach and swinging the backhoe bucket to the downhill side when operating on a slope.
3. Watch out for overhead and underground high-voltage electrical lines when operating the backhoe.
4. Do not enter the platform from the rear.
5. Always attach the backhoe transport chains before transporting the unit.
6. Always place the torque converter shuttle lever in neutral before operating backhoe.

### 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 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 backhoe or loader when they are detached from the tractor.
8. Whenever servicing or repairing 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.

### MAINTENANCE

Your ROPS must be maintained in a servicable condition. Be careful when driving through doorways or working in 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 has 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.

### DIESEL FUEL

1. Under no circumstances should gasoline, alcohol or blended fuels be added to diesel fuel. These combinations can create an increased fire or explosive hazard. Such blends are more explosive than pure gasoline in a closed container such as a fuel tank. **Do not use these blends.**
2. Never remove the fuel cap or refuel the tractor with the engine running or hot.
3. Do not smoke while refueling or when standing near fuel.
4. Maintain control of the fuel filter pipe nozzle when filling the tank.
5. Do not fill the fuel tank to capacity. Allow room for expansion.
6. Wipe up spilled fuel immediately.
7. Always tighten the fuel tank cap securely.
8. If the original fuel tank cap is lost replace it with a Ford approved cap. A non-approved, proprietary cap may not be safe.
9. Keep equipment clean and properly maintained.
10. Do not drive equipment near open fires.
11. Never use fuel for cleaning purposes.
12. Arrange fuel purchases so that winter grade fuels are not held over and used in the spring.

Whenever you see this symbol

























it means:

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

# UNIVERSAL SYMBOLS

As a guide to the operation of your tractor, various universal symbols are shown below with an indication of their meaning.

 Engine speed (rev/min x 100)	 Battery
 Hours recorded	 Heater temperature control
 Engine water temperature	 Air conditioner temperature control
 Fuel level	 Fan
 Fuel cut-off	 Wipe/wash control
 Lights	 Power take-off (on)
 Horn	 Power take-off (off)
 Engine oil pressure	 "Tortoise," slow or minimum setting
 Air filter	 "Hare," fast or maximum setting
 Transmission oil pressure	 Pressurized open slowly
	 Remote cylinder extended
	 Remote cylinder retracted

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