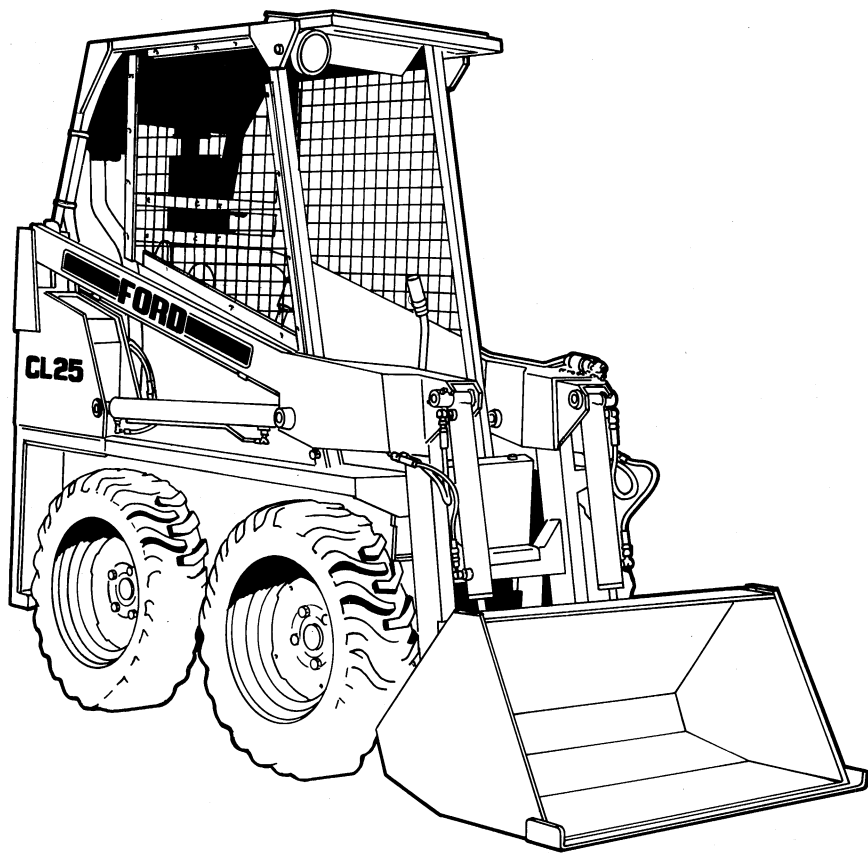


# FORD

## CL 25 Compact Loader



# OPERATOR'S MANUAL

42002511  
Reprinted

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## CL25

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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.

## THE TRACTOR

1. Read this manual carefully before using the loader. Working with unfamiliar equipment can lead to accidents.
2. Do not allow anyone to ride on the loader with the operator.
3. Make sure the control locks and the seat bar are installed and functioning at all times.
4. Never run the engine in a closed building without adequate ventilation, as the exhaust fumes can cause death.
5. Always fasten the seat belt before starting the engine.
6. Never attempt to start the engine while standing beside the unit. Start the engine only while sitting in the operator's seat with the seat belt fastened. Always check to make certain that the seat cushion is secured to the frame.
7. Keep the operator's platform free of debris.
8. Never enter or leave the loader while the engine is running. Always lower the lift arms down against the frame, drop the bucket down to contact the ground, set the parking brake and shut off the engine prior to leaving the loader.
9. If the unit is equipped with a cab enclosure kit always close the door prior to operating the loader lift arms.

## OPERATING THE TRACTOR

1. Always drive the loader at speeds compatible with safety, especially when operating over rough ground, crossing ditches, slopes, or when turning.
2. Avoid jerky turns, starts, stops, or reverses.
3. Use care when operating on steep grades to maintain proper stability.
4. Do not turn the unit while the lift arms are in the raised position.
5. Be careful when driving through door openings or under overhead objects. Always make sure there is sufficient clearance for the operator's guard.
6. When travelling on public roads use accessory lights and devices for adequate warning to operators of other vehicles.
7. Always be sure of water, gas, sewage and electrical line locations before you start to dig.
8. Watch out for overhead and underground high-voltage electrical lines when operating the loader.
9. Never leave the loader when it is parked on an incline. Always park the loader on level ground where possible. If the loader is to be parked on an incline, always lower the bucket so that the cutting lip contacts the ground and set the parking brake.
10. Do not leave the loader when it is in motion.

## OPERATING THE LOADER

1. Do not dismount from the loader and leave the loader lift arms raised. Always lower the lift arms down against the frame and drop the bucket down to contact the ground prior to leaving the loader.
2. Always be watchful of bystanders when operating the loader.
3. Always carry the bucket low for maximum stability and visibility, whether the bucket is loaded or empty.
4. Exercise extreme caution when operating the loader with a raised, loaded bucket or fork.
5. Never attempt to lift loads in excess of loader capacity.

## MAINTENANCE

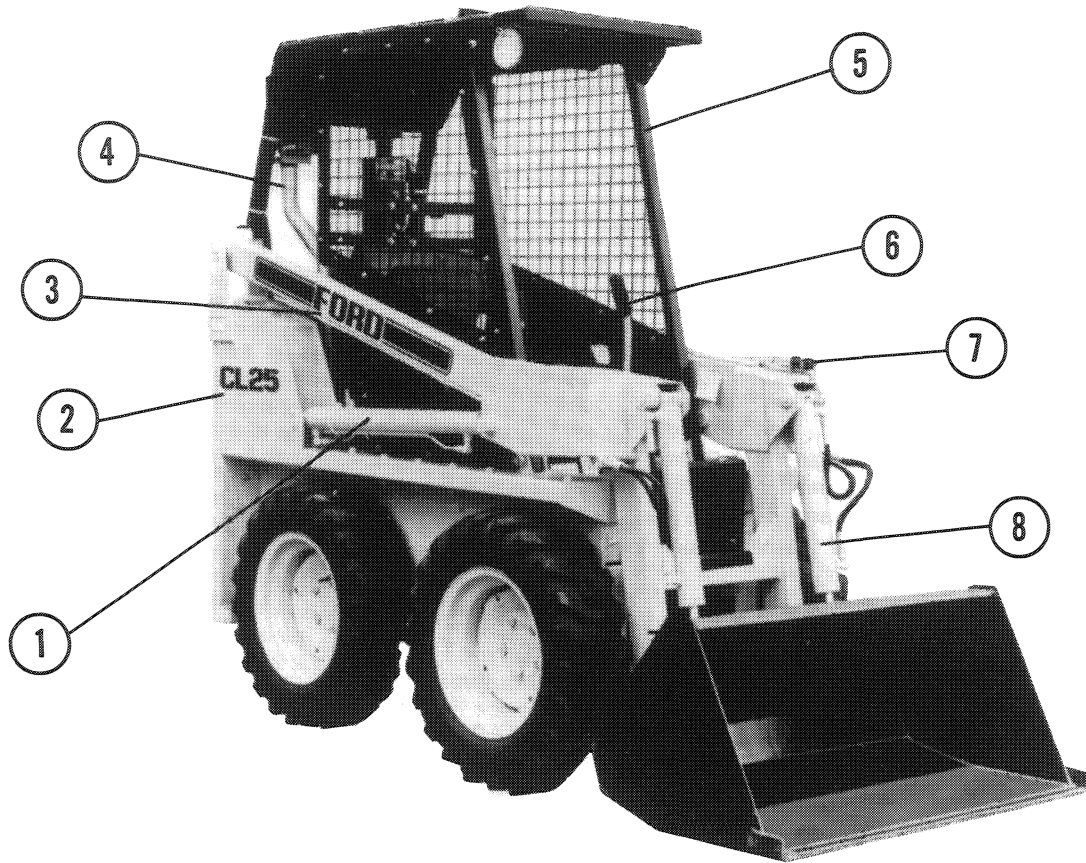
1. Stop the engine before performing any service on the tractor.
2. Never refuel the loader while smoking or with the engine hot or running.
3. Replace all missing, illegible, or damaged safety and warning decals. See section 5.3 for list.
4. Do not modify or alter, or permit anyone to modify or alter this equipment or any of its components or any tractor function without first consulting a Ford Tractor-Equipment dealer.
5. Do not bypass the starter safety switch. Consult your Ford Tractor-Equipment Dealer if your safety starter controls are malfunctioning. Use jumper cables only in recommended manner.
6. Do not make mechanical adjustments while the unit is in motion or when the engine is running. However, if minor engine adjustments must be made, securely block the loader wheels, and use extreme caution.
7. Do not attempt to repair or tighten hydraulic hoses when the system is under pressure, when the engine is running, or when the lift arms are raised.
8. Do not get under the bucket or lift arms or reach through the lift arms when the loader is raised.
9. Never attach chains or ropes to the operator's guard for pulling purposes, as the loader can tip over.
10. 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.
11. 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 the pressure to escape before removing the cap entirely.

Whenever you see this symbol



it means:

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



- 1 Boom Cylinder
- 2 Fuel Tank
- 3 Boom Arm
- 4 Exhaust

- 5 Operator's Guard
- 6 Operating Control Lever
- 7 Aux. Hydraulics
- 8 Bucket Cylinder

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# 1 GENERAL

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## INTRODUCTION:

The Ford CL25 Compact Loader, fig. 1, is designed for handling construction, industrial, mining and agricultural materials. This loader is completely equipped to lift loads of \*800 pounds (363 Kg.) capacity to a maximum height of 94.75 inches (2394 mm) as measured at the quick-tach hinge pin. This loader is designed to transport loads from one area to another, both indoors and outdoors. With the variety of attachments available, the Ford CL25 Compact Loader can be equipped for a multitude of job site uses.

The following paragraphs contain a description of the components and systems incorporated in this loader.

### Engine Assembly:

**CL25 Gas** — The engine assembly, fig. 1, is located directly behind the operators seat. The engine is a two cylinder, air cooled, 18 horsepower, Wisconsin Model TJD gasoline engine. Standard engine accessories include a dry type air cleaner, fuel filter, 12 volt flywheel alternator and starter.

**CL25 Diesel** — The engine assembly, fig. 1, is located directly behind the operators seat. The engine is a three cylinder, liquid cooled, 20 horsepower, Shibaura Model S753 diesel engine. Standard engine accessories include a dry type air cleaner, oil filter, glow plugs, 12 volt alternator, starter, fuel pump and mechanical governor.

### Operating Controls and Instruments:

Standard instruments on the Ford CL25 include: key ignition switch, override starting switch, glow plug indicator, engine liquid temperature and oil pressure warning light, hydraulic oil temperature warning light, alternator light, hourmeter and light switch (optional).

Controls consist of hand lever throttle and diesel shut-off (diesel) or throttle and choke control (gas), hand lever machine speed and direction control, parking brake and foot pedal controls for boom lift, bucket tilt and auxiliary hydraulic functions.

### Hydrostatic Drive:

Two engine driven, in line variable displacement axial piston pumps supply oil to two hydraulic torque drive motors. One drive motor for each side of the loader powers the wheels. The final drive assembly, of each side of the unit, is sealed inside a dust proof housing and consists of two ASA 60 roller chains running in an oil bath.

\*with equipment specified in section 5.1

### Steering:

Steering consists of two hand control levers, each connected through a linkage arrangement to a variable displacement hydrostatic piston pump. Each pump supplies oil to only one torque drive motor to drive the wheels on one side of the loader. The further a control lever is moved in the desired direction of travel, increases the volume of oil supplied to the motor driving the wheels of that side of the loader, thus increasing the speed of those wheels. Moving both hand control levers an equal amount will provide straight line travel. Varying the lever movements results in one side driving faster or slower than the other and produces turning. With one lever full forward and the other full back, a pivot or skid-steer turn is obtained.

Braking is accomplished by returning the hand control levers to their neutral position or slightly beyond.

### Hydraulic System:

Separate hydraulic circuits provide power for operating both the loader drive and hydraulic systems. A gear pump supplies oil to a three spool series type control valve. Two, 2 inch (5 cm) diameter, double acting cylinders provide lifting and lowering action of the loader boom arms. Two, 2 inch (5 cm) diameter, double acting bucket cylinders, dump or curl the bucket or provide for tilting of attachments. A hydraulic oil reservoir, separate from all chain drives, and a 25 micron hydraulic filter complete the hydraulic system. The hydraulic system has a capacity of 12 gal. (45 l).

### Safety Equipment:

The Ford CL25 provides a combination foot pedal lock and steering control lever, neutral centering device. The loader cannot be started unless the foot pedals are locked and the steering control levers are centered in neutral. When the engine has started the seat bar can be lowered in operating position which automatically unlocks the foot pedals and the steering control levers. Other standard safety equipment includes, safety belt, boom locks, parking brake, ROPS, side screens and override starting switch.

### Wheels and Tires:

The Ford CL25 is equipped with heavy duty 15 inch (38.1 cm) wheels and 5.90 x 15, 4 ply nylon tires with Chevron tread. Each tire and rim assembly is individually mounted on heavy-duty axles.

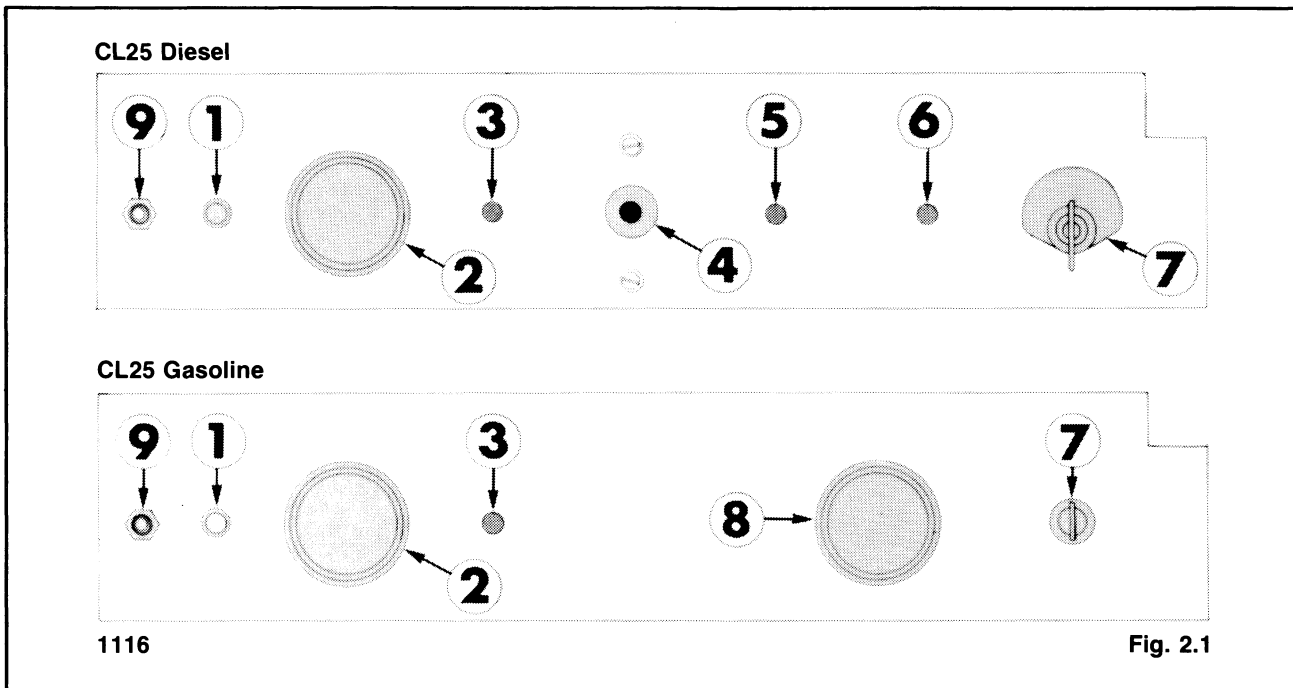
### Frame Assembly:

The frame assembly of the CL25 is constructed of high tensile, hollow rectangular, structural steel tubing to create maximum resistance to stress and strain.

## **2 CONTROLS**

- 2.1 Instrument Panel
- 2.2 Seat and Seat Belt
- 2.3 Seat Bar
- 2.4 Parking Brake
- 2.5 Throttle Control — Gas
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- 2.12 Auxiliary Hydraulic Circuit Pedal Lock

## 2 CONTROLS



### 2.1 INSTRUMENT PANEL

#### 1. Light Switch (Optional):

The light switch is an on-off switch. Pulling the switch out will turn on the headlights and rear work lights. Pushing the switch in will shut the lights off.

#### 2. Hour Meter:

The hour meter records the number of engine operating hours and has a total read out of 9999.9 hours. The clock winds approximately every 12 seconds and will run a short time after the engine has been shut-off.

#### 3. Hydraulic Oil Temperature Light:

The hydraulic oil temperature sender measures the temperature of the hydraulic oil. If the light comes on during operation shut off the engine and determine the cause of overheating. Refer to section 4.12 Trouble Shooting.

#### 4. Engine Pre-Heat Indicator:

The diesel engine is equipped with glow plugs to assist in starting. The glow plugs are activated by turning the ignition key counter clockwise as far as possible and held in this

position. The pre-heat indicator will turn red when the air in the combustion chamber has reached the proper temperature for starting.



#### 5. Engine Warning Light:

The engine warning light serves the dual function of monitoring both the engine oil pressure and engine coolant temperature. If the light comes on during operation or fails to go out after starting, shut off the engine immediately and determine cause.

#### 6. Alternator Light:

The alternator light will come on if the alternator is not producing sufficient current. Refer to the engine manual for test procedures.

#### 7. Ignition Switch:

The ignition switch is a four position switch, off, pre-heat, run and start. Turning the key counter clockwise will engage the

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