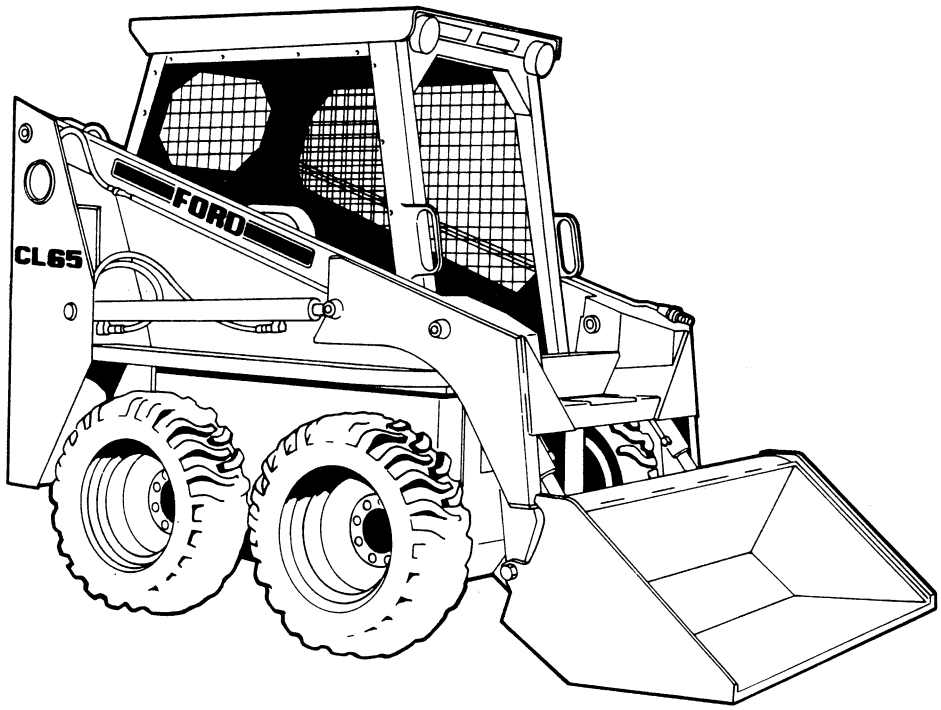
FORD

CL 55 and CL 65 Compact Loader



OPERATOR'S MANUAL

Reprinted

OWNER ASSISTANCE

We at Ford New Holland, Inc. and your Ford New Holland, Inc. Dealer want you to be completely satisfied with your investment. Normally any problems with your equipment will be handled by your Dealers'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) 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) 939-4900

Fairfield
P.O. Box 6100
Fairfield, CA 94533
Telephone: (707) 423-9200

Toronto
P.O. Box 7000
Brampton, ON
CANADA L6V 2M9
Telephone: (416) 452-6507

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 contact:

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

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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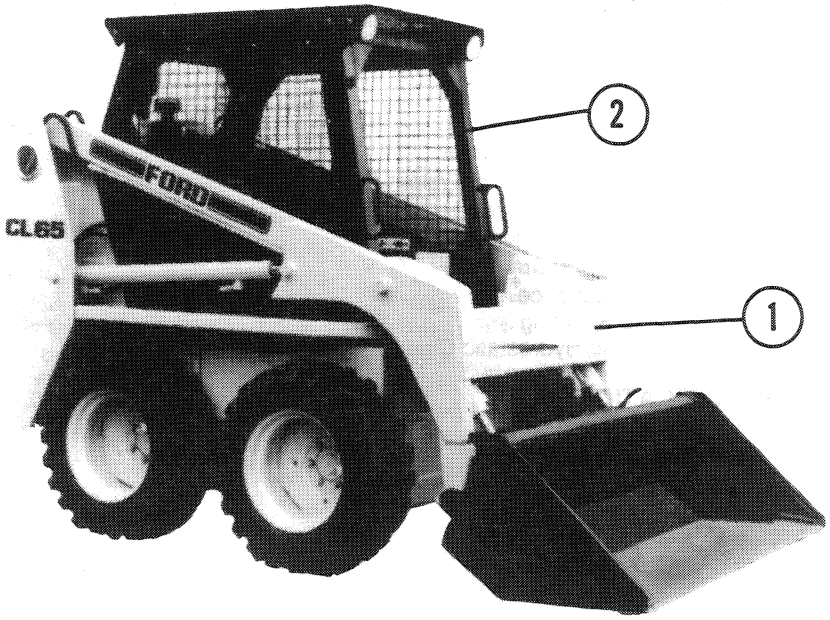

1. Boom Arms
2. Operators Guard (ROPS)
3. Muffler
4. Boom Cylinder
5. Fuel Tank
6. Operating Control Lever
7. Aux. Hydraulics
8. Bucket Cylinder

1 GENERAL INFORMATION

INTRODUCTION:

The Ford CL55 and CL65 Compact Loaders, (Fig. 1), are designed for handling construction, industrial, mining and agricultural materials. The CL55 has a rated lift capacity of *1700 lbs. (771 Kg) to a height of 120 inches (3048 mm) as measured at the quick-tach hinge pin. The CL65 has a rated lift capacity of *2000 lbs. (907 Kg) to a height of 133 inches (3368 mm). These loaders are designed to transport from one area to another, both indoors and outdoors. With the variety of attachments available, both the Ford CL55 and CL65 compact loaders can be equipped for a multitude of job site uses.

The following paragraphs contain a description of the components and systems incorporated in these loaders.

*with equipment specified in section 5.1

Engine Assembly:

CL55 — The engine assembly, Fig. 1, is located directly behind the operators seat in a completely enclosed compartment. The engine is a four cylinder, liquid cooled, 43 horsepower, Shibaura Model LEP 843A-3 diesel engine. Refer to the engine instruction book for further information concerning the engine, its components, specifications and repair. Standard engine accessories include a dry type air cleaner, oil filter, fuel filter, glow plugs, 12 volt alternator and starter, fuel pump and mechanical governor.

CL65 — The engine assembly, Fig. 1, is located directly behind the operators seat in a completely enclosed compartment. The engine is a four cylinder, liquid cooled, 62 horsepower, Shibaura Model UI004 diesel engine. Standard engine accessories include a dry type air cleaner, oil filter, fuel filter, glow plugs, 12 volt alternator and starter, fuel pump and mechanical governor.

Operating Controls and Instruments:

Standard instruments on the Ford CL55 and CL65 include: key ignition switch, safety override starting switch, fuel gauge, glow plug indicator, engine coolant temperature and oil pressure warning light, hydraulic oil temperature warning light, alternator light, hourmeter and light switch.

Controls consist of hand lever throttle and diesel shut-off, hand lever speed, direction control, parking brake, and foot pedal boom lift, bucket dump and auxiliary hydraulic controls.

Hydrostatic Drive:

Two engine driven, in line axial variable displacement piston hydrostatic pumps supply oil to two hydrostatic piston 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 case and consists of a gear and an ASA 80 chain drive running in an oil bath.

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 hydrostatic 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 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, $2^1/_2$ inch (6.35 cm) diameter, double acting cylinders provide lifting and lowering action of the loader boom arms. Two, $2^1/_2$ inch (6.35 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, two 125 micron suction elements, a 10 micron hydraulic filter and an oil cooler complete the hydraulic system. The hydraulic system has a capacity of 14.5 gal. (55 l).

Safety Equipment:

The Ford CL55/65 provides a combination foot pedal cover and loader controls neutral centering device. The loader cannot be started unless the foot pedals are covered and the hand control levers centered in neutral. When the engine has started the seat bar can be lowered in position which automatically uncovers the foot pedals and unlocks the steering control levers. Other standard safety equipment includes, safety belt, boom locks, quick-tach lock, override starting switch and parking brake.

Wheels and Tires:

The Ford CL55 is equipped with heavy duty 15 inch (38.1 cm) wheels and 7.00 x 15, 6 ply nylon tires with Chevron tread. The Ford CL65 is equipped with 16.5 inch (41.9 cm) wheels and 10.00 x 16.5, 6 ply nylon lugtype tires.

Frame Assembly:

The frame assembly of both the CL55 and CL65 are constructed of high tensile, hollow rectangular structural steel tubing to create maximum resistance to stress and strain.

SAFETY PRECAUTIONS

A careful operator is the best operator. Most accidents can be avoided by observing certain precautions to prevent the possibility of injury or damage. The following precautions are suggested to help prevent accidents. Read them carefully before operating your new Ford Compact Loader.

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. 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.
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, 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.
10. Always be watchful of bystanders when operating the loader.
11. Always drive the loader at speeds compatible with safety, especially when operating over rough ground, crossing ditches, slopes, or when turning.
12. Avoid jerky turns, starts, stops, or reverses.
13. Use care when operating on steep grades to maintain proper stability.
14. Always carry the bucket low for maximum stability and visability, whether the bucket is loaded or empty.
15. Never attempt to lift loads in excess of loader capacity.
16. Do not turn the unit while the lift arms are in the raised position.
17. Be careful when driving through door openings or under overhead objects. Always make sure there is sufficient clearance for the operator's guard.
18. When travelling on public roads use accessory lights and devices for adequate warning to operators of other vehicles.
19. Exercise extreme caution when operating the loader with a raised, loaded bucket or fork.
20. 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.
21. 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.
22. Do not get under the bucket or lift arms or reach through the lift arms when the loader is raised.
23. Never attach chains or ropes to the operator's guard for pulling purposes, as the loader can tip over.
24. 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 securely block the loader wheels.
25. Do not leave the loader when it is in motion.
26. 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.
27. Keep the operator's platform free of debris.
28. Never refuel the loader while smoking or with the engine hot or running.
29. Replace all missing, illegible, or damaged safety and warning decals. See section 5.3 for list.
30. Do not modify or alter, or permit anyone to modify or alter this equipment or any of its components.

Whenever you see this symbol  it means:
ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

2 CONTROLS

2 CONTROLS

2.1 INSTRUMENT PANEL

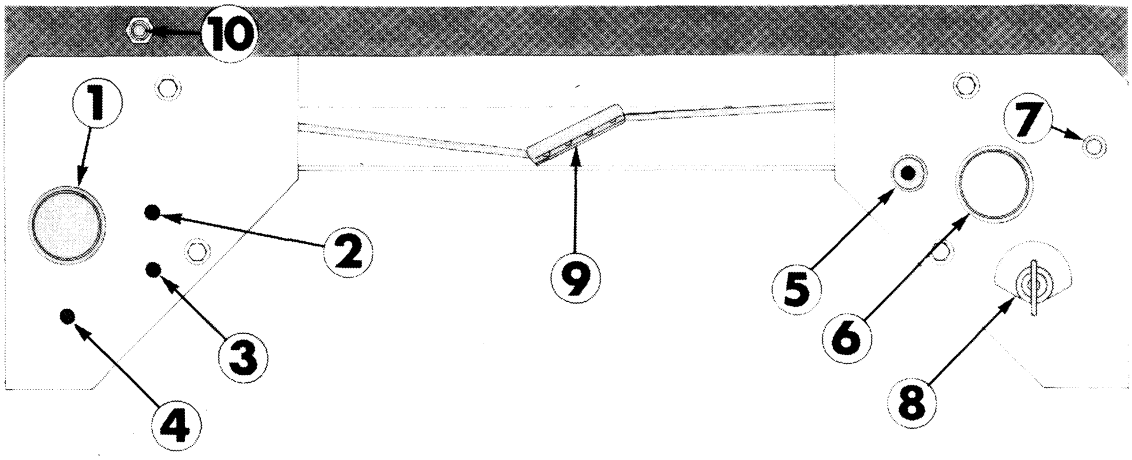

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Fig. 2.1

1. Fuel Gauge:

The fuel gauge indicates the quantity of fuel in the fuel tank. The fuel tank capacity is 18 gal. (68 l). The diesel engine must not be allowed to run out of fuel otherwise air will have to be removed from the fuel (see section 4.7.8).

WARNING **Never add fuel to the loader when the engine is running or is hot. NO SMOKING!**

2. Alternator Light:

The alternator light will come on if the alternator is not producing sufficient current.

3. 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.

4. 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 cause of overheating. Check the hydraulic oil cooler for air flow restriction. Refer to section 4.11 trouble shooting.

5. 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.

WARNING **This engine is equipped with glow plugs. Do not use ether or any high energy fuels to assist starting.**

6. 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.

7. Light Switch:

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.

8. Ignition Switch:

The ignition switch is a four position switch, off, pre-heat, run and start. Turning the key counter clockwise will engage the engine pre-heat. To engage the starter turn the key clockwise. When the key is released it will return to run position.

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