

FORD



NEW HOLLAND

Operator's Manual

Tractors

5610S, 6610S, 7610S II

42561031

Reprinted



SUPPLEMENT TO OPERATOR'S MANUAL

FUSE BOX LOCATION AND FUSE REPLACEMENT INSTRUCTIONS FOR 3 & 4 CYLINDER STRADDLE MOUNT LESS CAB N.A.

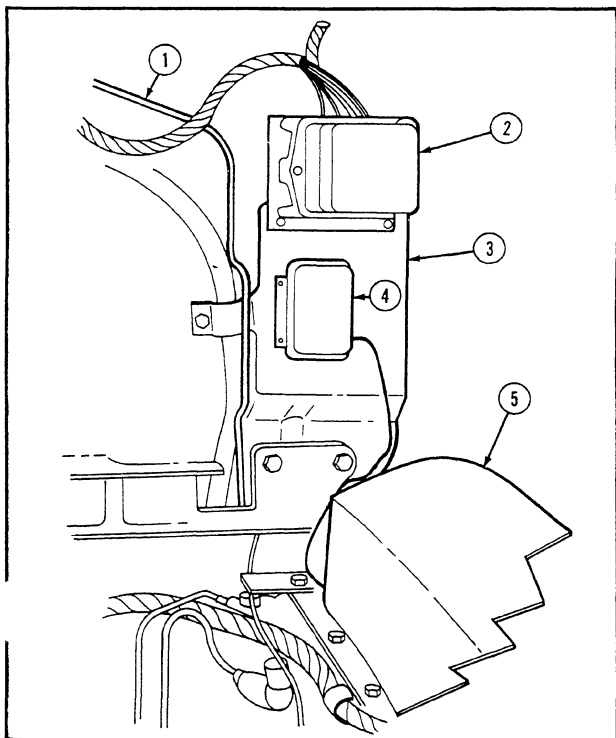


Figure 1
Fuse Box Location

1. Fuel Tank
2. Fuse Box w/Cover
3. Fuel Tank Support
4. Voltage Regulator
5. Engine Rocker Cover

To access the fuse box on 3 & 4 cylinder straddle mount less cab models open the right side hood panel. Loosen the battery wing nut clamp and swing the battery tray out. The fuse box is mounted on the fuel tank support. To replace fuses pull off the plastic cover and referring to Figure 2, determine which fuse is blown. The fuses push in and pull out.

NOTE: It is important that a blown fuse is replaced by another of the same rating. See the color code chart.

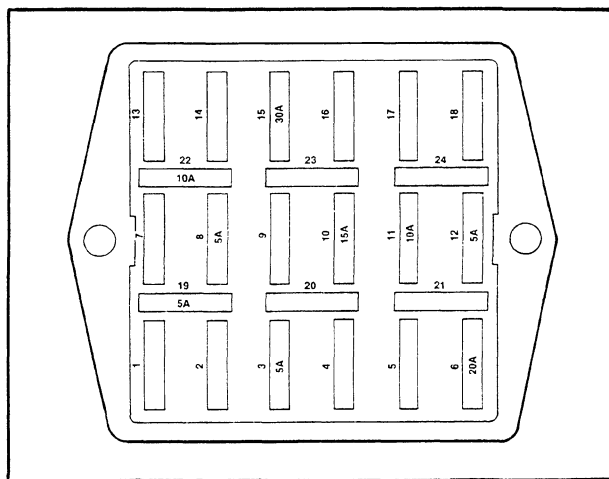


Figure 2
Fuse Box Circuit Location

FUSE NO.	AMPS.	CIRCUIT DESCRIPTION
3	5	INSTRUMENTS
6	20	AUXILIARY OUTLET — SWITCHED
8	5	REGULATOR FEED
10	15	THERMOSTART HEATER
11	10	FRONT LIGHTS
12	5	INSTRUMENT LIGHTING
15	30	AUXILIARY OUTLET — UNSWITCHED
19	5	DUAL POWER & FRONT WHEEL DRIVE
22	10	FLASHING & WORK LAMPS

PART NUMBER	COLOR	AMP. RATING
D9ZB-14A094-GA	LIGHT GREEN	30
D9ZB-14A094-FA	NATURAL	25
D9ZB-14A094-EA	YELLOW	20
D9ZB-14A094-DA	LIGHT BLUE	15
D9ZB-14A094-CA	RED	10
D9ZB-14A094-BA	TAN	5

LUBRICATION AND MAINTENANCE

IMPORTANT INFORMATION – ENGINE COOLANT ADDITIVE

During manufacture, a measure of chemical inhibitor was added to the cooling system of your tractor to provide increased protection from corrosion.

The chemical inhibitor gradually loses strength, as it works and protects the system, and must, therefore, be replenished by a measured dosage of fresh chemical to maintain the optimum protection level.



WARNING: *The cooling system is pressurised and care should be taken when removing the radiator cap if the engine is hot. Coolant should be kept off the skin. Adhere to the precautions outlined on the antifreeze container.*

In the event of leakage, such as may occur with a failed heater or radiator hose, the chemically charged coolant will be lost. In this event, it is extremely important that any lost coolant is replaced by a pre-mixed solution of inhibitor and antifreeze solution or inhibitor and water.

A 16 fluid ounce (475 ml) bottle of chemical inhibitor is available from your dealer under Part No. FW-15 (Ford specification ESN-M99B169-A). The bottle is graduated in 1 ounce increments to facilitate measurement. One full bottle is sufficient to treat 26 Imp. Pints (4 U.S. Gallons, 15 litres) of water or water/antifreeze solution. Keep the mixture in a marked container specifically for top-up purposes. Always investigate the cause of leakage and repair properly. Do not use anti-leak additives.

The following additional service operations are necessary at the intervals stated:

First 50 Hour Service only (dealer function)

Ford 5610 and 6610: Remove the radiator cap and add 6 fluid ounces (180 ml) or three-eighths of a bottle of inhibitor.

Ford 7610: Remove the radiator cap and add 8 fluid ounces (240 ml), or one-half bottle of inhibitor.

All models: Replace the cap and run the engine at normal operating temperature for at least 10 minutes to distribute the chemical throughout the cooling system.

Every 10 Hours or Daily

Remove the radiator cap and check that the coolant level is 0.25 in (5 mm) above the radiator core. Top up with antifreeze/water/inhibitor solution of the correct strength. See preceding text under "Engine Coolant Additive".

Every 300 Hours

Remove the radiator cap and add 4 fluid ounces (120 ml) or one-quarter of a bottle of inhibitor. Replace the cap and run the engine at normal operating temperature for at least 10 minutes to distribute the chemical throughout the cooling system.

Every 2400 Hours or Two Years

Open the drain cock on the radiator and cylinder block and allow the coolant to drain. Removal of the radiator cap will increase the drainage rate. When drainage is complete, close both cocks and refill the cooling system with clean water. Operate the engine until normal temperature is reached, stop the engine and again drain the system.

Ford 5610 and 6610: Refill the cooling system by initially adding 24 fluid ounces (710 ml) or one and a half bottles of inhibitor to the radiator.

Ford 7610: Refill the cooling system by initially adding 32 fluid ounces (950 ml) or two whole bottles of inhibitor to the radiator.

All models: Complete the refilling by adding a pre-mixed solution of 50% Ford Antifreeze and clean water. Always fill the radiator slowly to avoid trapped air pockets. Operate the engine until normal operating temperature is reached to fully circulate and mix the inhibitor.

Tractor Storage

Where a unit is to be stored or winterized, it is preferable to store the unit with a filled cooling system, obviously with an antifreeze/water/inhibitor solution of the correct strength.

If the unit is within 100 hours of the next scheduled 300 hour service, add 4 fluid ounces (120 ml) or one-quarter of a bottle of inhibitor. Run the engine at normal operating temperature for at least 10 minutes to ensure complete distribution of the chemical inhibitor throughout the system.

Alternatively, where applicable, perform the 2400 hour drain, flush and refill procedure described in the preceding text.

DEAR CUSTOMER – PLEASE READ CAREFULLY

The warranty coverage that is extended to your Ford Tractor is explained in the Warranty and Limitation of Liability, Ford Tractor and Equipment form. Your dealer will provide you with a copy of the warranty and retain a copy which you have signed. After you read the warranty, ask your dealer to explain any points that you may not understand.

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 Dealer. If you have any questions regarding tractor modifications contact Ford Tractor Operations of Ford Motor Company.

A roll over protective structure (ROPS) and seat belt were standard equipment for the tractor at time of factory assembly. If the ROPS was deleted by the original purchaser or has been removed, it is recommended that you equip your tractor with a Roll Over Protective Structure (ROPS) and seat belt. ROPS and safety cabs are effective in reducing injuries during tractor overturn accidents. Overturning a tractor without a ROPS or safety cab can result in serious injury or death.

Roll Over Protective Structure (ROPS) safety cabs and seat belt are available for your Ford tractor. If your tractor is not equipped with a ROPS or safety cab and seat belt see your Ford Tractor Equipment Dealer.

Your safety and the safety of those around you depends upon the care and good judgment you use while operating this equipment. Read the safety precautions carefully.

For a complete list of the pre-delivery service checks performed by your dealer, refer to PRE-DELIVERY SERVICE on the upper portion of the following two pages. The first copy is your record of the service performed and the second copy, which is to be removed from the manual, is your dealer's record. **MAKE SURE THAT YOU AND THE DEALER SIGN BOTH COPIES.**

After you have operated your tractor for fifty hours, take the manual and your tractor to your dealer. He will then perform the factory recommended 50-HOUR SERVICE as listed on the lower portion of the following two pages – without charge – except for lubricants, hydraulic oil, or filters replaced as part of normal maintenance. **MAKE SURE THAT YOU AND THE DEALER SIGN BOTH COPIES.**

Your tractor is equipped with a new Ford engine. During manufacturing, the cylinder walls of some engines are sleeved. Both sleeved and unsleeved engines have the same operating characteristics.

PARTS AND SERVICE CATALOGS AVAILABLE!

Ford Tractor Operations is pleased to announce to owners of Ford tractors and equipment the availability of numerous parts and service catalogs.

To obtain these catalogues merely fill out the order form available from your local authorised Ford Tractor-Equipment Dealer. Mail with your remittance to Helm Inc. Your order will be processed promptly.

PRE-DELIVERY SERVICE

CHECK AND ADJUST AS REQUIRED

INOPERATIVE SERVICE CHECKS:

1. Tire pressure ☐
2. Front wheel toe-in/toe-out ☐
3. Front and rear wheel disc and hub nuts for tightness ☐
4. Rear wheel to rim clamp bolts, lock nuts, or jack screws for tightness ☐
5. Front axle spindle nuts for proper tightness ☐
6. Front axle support bolts for tightness ☐
7. Check front axle differential oil level (Front wheel drive only) ☐
8. Check front axle hub oil level (Front wheel drive only) ☐
9. Check front weight mounting bolts for tightness ☐
10. Radiator coolant level ☐
11. All belt tensions ☐
12. Engine oil level ☐
13. Drain diesel fuel filter ☐
14. Oil level in injector pump ☐
15. Fuel level ☐
16. Battery cleanliness, vent openings, electrolyte level, and specific gravity not less than 1.240 ☐
17. Check all electrical cables and wire routings are away from sharp edges, moving parts and exhaust heat ☐
18. Power steering reservoir oil level ☐
19. Hydraulic system oil level ☐
20. Hydraulic lift draft control mainspring adjustment ☐
21. Upper link, drawbar and pin in position ☐
22. Lift rod levelling crank for proper operation ☐
23. Clutch pedal free travel ☐
24. Brake pedal free travel, equalization, pedal lock ☐
25. Parking brake operation ☐
26. Cab door operation and seal condition ☐
27. Cab door lock operation ☐
28. Seat adjustment ☐
29. Cab interior upholstery, trim and moldings ☐
30. Cab window operation, window props and latches, seal condition ☐
31. Cab sun visor operation ☐
32. Cab filter installation ☐
33. Tool box for Operators Manual ☐
34. Sheet metal and paint condition ☐
3. Windshield wiper/washer 2 speed operation ☐
4. Heater temperature control ☐
5. Pressurizer fan 3 speed operation ☐
6. Air conditioner operation ☐
7. Engine maximum no-load speed, idle speed adjustment, and fuel shut-off ☐
8. PTO engagement and disengagement ☐
9. Hydraulic system:
 - Draft and Position Control operation ☐
 - Draft Control rocker for tension and compression loads ☐
 - Auxiliary service control or remote control valve ☐
10. Fluid and oil leaks ☐
11. Seat belt and rollbars properly installed ☐

OPERATIVE SERVICE CHECKS:

All operating checks are to be performed with the tractor at normal operating temperature.

1. Starter safety switch operation ☐
2. Lights and instruments for proper operation ☐

PERFORMANCE SERVICE CHECKS

1. Engine operation including throttle and governor operation ☐
2. Transmission including clutch ☐
3. Differential lock engagement and disengagement ☐
4. Steering control ☐
5. Brake action ☐
6. All optional equipment and accessories ☐

TRACTOR MODEL NO. _____

INSPECTION PERFORMED – SAFETY
PRECAUTIONS AND WARRANTY
EXPLAINED

TRACTOR SERIAL NO. _____

OWNER'S SIGNATURE _____

DATE _____

DEALER'S SIGNATURE _____

DATE _____

50-HOUR SERVICE

CHECK AND ADJUST AS REQUIRED

1. Change Engine Oil and Filter ☐
2. Change Hydraulic Inlet Filter ☐
3. Drain Fuel Filter and Bleed System ☐
4. Change Injection Pump Oil ☐
5. Tighten Pump Delivery Valve Holders ☐
6. Check Cylinder Head Bolt Torques and Adjust Engine Valve Clearance ☐
7. Check and Adjust Belt Tension ☐
8. Check and Adjust Brake and Clutch Linkage ☐
9. Check Torque on Front and Rear Wheel Lug Nuts ☐
10. Check Torque on Rear Wheel Rim-to-Disc Clamp Bolts ☐
11. Check Torque on Front Weight Clamp Bolts and Weight Hanger Mounting Bolts ☐
12. Change Front Axle Differential Oil (Front Wheel Drive Only) ☐
13. Change Front Axle Hub Oil (Front Wheel Drive Only) ☐

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DATE _____

DEALER'S SIGNATURE _____

DATE _____



PRE-DELIVERY SERVICE

CHECK AND ADJUST AS REQUIRED

INOPERATIVE SERVICE CHECKS:

1. Tire pressure ☐
2. Front wheel toe-in/toe-out ☐
3. Front and rear wheel disc and hub nuts for tightness ☐
4. Rear wheel to rim clamp bolts, lock nuts, or jack screws for tightness ☐
5. Front axle spindle nuts for proper tightness ☐
6. Front axle support bolts for tightness ☐
7. Check front axle differential oil level (Front wheel drive only) ☐
8. Check front axle hub oil level (Front wheel drive only) ☐
9. Check front weight mounting bolts for tightness ☐
10. Radiator coolant level ☐
11. All belt tensions ☐
12. Engine oil level ☐
13. Drain diesel fuel filter ☐
14. Oil level in injector pump ☐
15. Fuel level ☐
16. Battery cleanliness, vent openings, electrolyte level, and specific gravity not less than 1.240 ☐
17. Check all electrical cables and wire routings are away from sharp edges, moving parts and exhaust heat ☐
18. Power steering reservoir oil level ☐
19. Hydraulic system oil level ☐
20. Hydraulic lift draft control mainspring adjustment ☐
21. Upper link, drawbar and pin in position ☐
22. Lift rod levelling crank for proper operation ☐
23. Clutch pedal free travel ☐
24. Brake pedal free travel, equalization, pedal lock ☐
25. Parking brake operation ☐
26. Cab door operation and seal condition ☐
27. Cab door lock operation ☐
28. Seat adjustment ☐
29. Cab interior upholstery, trim and moldings ☐
30. Cab window operation, window props and latches, seal condition ☐
31. Cab sun visor operation ☐
32. Cab filter installation ☐
33. Tool box for Operators Manual ☐
34. Sheet metal and paint condition ☐

OPERATIVE SERVICE CHECKS:

- All operating checks are to be performed with the tractor at normal operating temperature.
1. Starter safety switch operation ☐
 2. Lights and instruments for proper operation ☐

3. Windshield wiper/washer 2 speed operation ☐
4. Heater temperature control ☐
5. Pressurizer fan 3 speed operation ☐
6. Air conditioner operation ☐
7. Engine maximum no-load speed, idle speed adjustment, and fuel shut-off ☐
8. PTO engagement and disengagement ☐
9. Hydraulic system:
 - Draft and Position Control operation ☐
 - Draft Control rocker for tension and compression loads ☐
 - Auxiliary service control or remote control valve ☐
10. Fluid and oil leaks ☐
11. Seat belt and rollbars properly installed ☐

PERFORMANCE SERVICE CHECKS

1. Engine operation including throttle and governor operation ☐
2. Transmission including clutch ☐
3. Differential lock engagement and disengagement ☐
4. Steering control ☐
5. Brake action ☐
6. All optional equipment and accessories ☐

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DATE _____

50-HOUR SERVICE

CHECK AND ADJUST AS REQUIRED

1. Change Engine Oil and Filter ☐
2. Change Hydraulic Inlet Filter ☐
3. Drain Fuel Filter and Bleed System ☐
4. Change Injection Pump Oil ☐
5. Tighten Pump Delivery Valve Holders ☐
6. Check Cylinder Head Bolt Torques and Adjust Engine Valve Clearance ☐
7. Check and Adjust Belt Tension ☐
8. Check and Adjust Brake and Clutch Linkage ☐
9. Check Torque on Front and Rear Wheel Lug Nuts ☐
10. Check Torque on Rear Wheel Rim-to-Disc Clamp Bolts ☐
11. Check Torque on Front Weight Clamp Bolts and Weight Hanger Mounting Bolts ☐
12. Change Front Axle Differential Oil (Front Wheel Drive Only) ☐
13. Change Front Axle Hub Oil (Front Wheel Drive Only) ☐

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EXPLAINED

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DATE _____

DEALER'S SIGNATURE _____

DATE _____

FOREWORD

This Manual has been prepared to assist you in the correct procedure for running-in, operation and maintenance of your new Ford Tractor. The Manual covers tractors with and less cab and where obvious differences occur both versions are illustrated or described in the text.

Your tractor has been designed and built to give maximum performance, economy and ease of operation under a wide variety of operating conditions. Prior to delivery, the tractor was carefully inspected, both at the factory and by your Ford tractor dealer to ensure that it reaches you in optimum condition. To maintain this condition and ensure trouble-free operation, it is important that the routine services, as specified in this Manual, are carried out at the recommended intervals.

Read this Manual carefully and keep it in a convenient place for future reference. If at any time you require advice concerning your tractor, do not hesitate to contact your authorised Ford tractor dealer. He has factory trained personnel, genuine Ford parts and the necessary equipment to carry out your service requirements.

A vehicle identification plate is located under the tractor hood. If your tractor is equipped with front wheel drive transmission, then a similar plate is affixed to the rear of the front axle casing. For convenience, the numbers shown on the plates should be recorded in the panels below and quoted to your Ford tractor dealer should the tractor require service.

Ford Tractor Operations	
TRACTOR NUMBER	
MODEL UNIT	
ENGINE	
TRANSMISSION	REAR AXLE
HYDRAULIC PUMP	HYDRAULIC LIFT

Vehicle Identification Plate

Zahnradfabrik Passau GmbH	
Made in West Germany	
Type	Serial-No
Parts List No	Total Ratio/Version
Oil	litr List of lubricants
	TE-ML
	TE-ML
	TE-ML
Customer's Code No	

OM208

Front Axle Identification Plate

Ford policy is one of continuous improvement, and the right to change prices, specification or equipment at any time without notice is reserved.

All data given in this book is subject to production variations. Dimensions and weights are approximate only and the illustrations do not necessarily show tractors in standard condition. For exact information about any particular tractor please consult your Ford tractor dealer.

SAFETY PRECAUTIONS

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

THE TRACTOR

1. Read the Operator's Manual carefully before using the tractor. Lack of operating knowledge can lead to accidents.
2. If your tractor is equipped with a ROPS or safety cab, use an approved Seat Belt for safe operation. Overturning a tractor can result in death or injury. If your tractor is not equipped with a seat belt, see your Ford Tractor Equipment Dealer.
3. If a front end loader is to be installed, always use a FOPS canopy to avoid injury from falling objects.
4. 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.
5. Do not permit anyone but the operator to ride on the tractor. There is no safe place for extra riders.
6. Replace all missing, illegible, or damaged safety decals.
7. Keep safety decals clean of dirt and grime.

SERVICING THE TRACTOR

1. The cooling system operates under pressure which is controlled by the radiator cap. It is dangerous to remove the cap while the system is hot. Always turn the cap slowly to the first stop and allow the 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 the engine to cool before refueling.
3. Keep the tractor in good operating condition for your safety. An improperly maintained tractor can be hazardous.
4. To prevent fires or explosions keep open flame away from battery or cold weather starting aids. To prevent sparks which could cause explosion use jumper cables according to instructions.
5. Stop the engine before performing any service on the tractor.
6. 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 the engine and relieve pressure before connecting or disconnecting lines.
 - Tighten all connections before starting the engine or pressurizing lines.
 - If fluid is injected into the skin obtain medical attention immediately or gangrene may result.
7. Do not attempt to service the air conditioning system. It is possible to be severely frostbitten or injured by escaping refrigerant. See your dealer for service.
8. 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 dealer.
9. The fuel oil in the injection system is under high pressure and can penetrate the skin. Unqualified persons should not remove or attempt to adjust a pump, injector, nozzle or any other part of the fuel injection system. Failure to follow these instructions can result in serious injury.
10. Continuous long term contact with used engine oil has caused skin cancer in animal tests. Avoid prolonged contact with used engine oil. Wash skin promptly with soap and water.

OPERATING THE TRACTOR

1. Apply the parking brake, place the P.T.O. lever in the "OFF" position, the lift control lever in the down 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 the controls.
3. Do not bypass the neutral start switch. Consult your Ford tractor dealer if your safety start controls malfunction. Use jumper cables only in the recommended manner. Improper use can result in a tractor runaway.
4. Avoid accidental contact with the gear shift 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. Shut off the engine and apply the parking brake before getting off the tractor.
7. Do not park the tractor on a steep incline.
8. Do not operate the tractor engine in an enclosed building without adequate ventilation. Exhaust fumes can cause death.
9. If the power steering or engine ceases operating, stop the tractor immediately.
10. Pull only from the swinging drawbar or the lower link drawbar in the down position. Use only a drawbar pin that locks in place. Pulling from the tractor rear axle or any point above the axle may cause the tractor to upset.
11. If the front end of the tractor tends to rise when heavy implements are attached to the three-point hitch, install front end or front wheel weights. Do not operate the tractor with a light front end.
12. Always set the hydraulic selector lever in position control when attaching equipment and when transporting equipment. Be sure hydraulic couplers are properly mounted and will disconnect safely in case of accidental detachment of implement.
13. Do not leave equipment in the raised position.

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perfect and complete manual in
the world immediately.

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