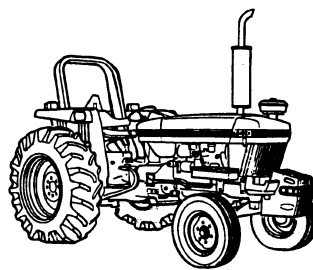


Tractors
5610S
6610S
7610S
7810S

OPERATOR'S MANUAL



NEW HOLLAND

INTRODUCTION

This Manual has been prepared to assist you in the correct procedure for running-in, driving and operating your new Ford tractor and to assist you in the correct method of maintenance to keep it in peak condition.

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 New Holland 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. After you have operated the tractor for 50 hours, take your tractor, together with this Manual, to your dealer. He will then perform the factory recommended 50 hour service.

Pages ii to vii inclusive list the precautions to be observed to ensure your safety and the safety of others. Read the safety precautions and follow the advice offered before operating the tractor.

Pages ix and xi are pre-delivery inspection sheets. The first sheet (page ix) is the dealers' copy and should be removed by the dealer after the inspection has been carried out. The second sheet (page xi) is your copy of the service performed. **Ensure that you and the dealer sign both copies.**

Pages xiii and xv are the 50-hour service sheets. The first sheet (page xiii) is the dealer's copy and should be removed by the dealer after the service has been carried out. The second sheet (page xv) is your copy of the service performed. **Ensure that you and the dealer sign both copies.**

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

Following these introductory pages, the Manual is split into three sections. Section A describes the controls and instruments and advises the correct method of operating your new tractor. Section B details lubrication and maintenance procedures and includes a comprehensive service chart. Section C outlines the specification of your tractor. A comprehensive index is provided at the back of the Manual.

Ford New Holland 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 New Holland 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 or working on 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. Only allow properly trained and qualified persons to operate the tractor.
3. To prevent falls, use the handholds and step plates when getting on and off the tractor. Keep steps and platform clear of mud and debris.
4. Do not permit anyone but the operator to ride on the tractor unless a passenger seat is fitted. There is no safe place for extra riders otherwise.
5. Replace all missing, illegible or damaged safety decals.
6. Keep safety decals free of dirt or grime.
7. Do not modify or alter or permit anyone else to modify or alter the tractor or any of its components or any tractor function without first consulting a Ford New Holland dealer.
8. Tractor wheels are very heavy. Handle with care and ensure, when stored, that they cannot topple and cause injury.
3. Dip the tractor lights when meeting a vehicle at night. Make sure the lights are adjusted to prevent blinding the driver of an oncoming vehicle.
4. Reduce speed before turning or applying the brakes. Lock the brake pedals together when travelling at road speeds or when on the highway. Brake both wheels simultaneously when making an emergency stop.
5. Use extreme caution and avoid hard application of the tractor brakes when towing heavy loads at road speeds.
6. Any towed vehicle whose total weight exceeds that of the towing tractor must be equipped with brakes for safe operation.
7. Never apply the differential lock when turning. When engaged, the differential lock will prevent the tractor from turning.
8. Always check overhead clearance, especially when transporting the tractor. Watch where you are going, especially at row ends, on roads and around trees and low overhanging obstacles.
9. Use extreme caution when operating on steep slopes.

DRIVING THE TRACTOR

1. Always sit in the driver's seat while starting or driving the tractor.
2. When driving on public roads, have consideration for other road users. Pull in to the side of the road so that any following traffic may pass. Do not exceed the legal speed limit set in your country for agricultural tractors.
10. To avoid overturns, 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.
11. If the tractor becomes stuck or the tyres are frozen to the ground, reverse the tractor to prevent overturning.
12. Keep the tractor in the same gear when going downhill as would be used when going uphill. Do not coast or free wheel down hills.

SAFETY PRECAUTIONS

OPERATING THE TRACTOR

1. Apply the parking brake, place the P.T.O. control in the “OFF” position, the lift control lever in the down position, the remote control valve levers in the neutral position and the transmission levers 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 switches. Consult your Ford New Holland dealer if your neutral start controls malfunction. Use boost cables only in the recommended manner. Improper use can result in a tractor runaway.
4. Avoid accidental contact with the gear shift levers 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 P.T.O. 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. Always wear a protective mask when working with toxic spray chemicals. Follow the directions on the chemical container.
10. If the power steering or engine ceases operating, stop the tractor immediately as the tractor will be more difficult to control.
11. Stop the engine and relieve pressure before connecting or disconnecting hydraulic, steering or fuel lines.
12. Tighten all connections before starting the engine or pressurising lines.
13. Pull only from the swinging drawbar or the lower link drawbar in the lowered 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 overturn.
14. 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.
15. Always select 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 the implement.
16. Do not leave equipment in the raised position when the vehicle is stopped or unattended.
17. Ensure any attached equipment or accessories are correctly installed, are approved for use with the tractor, do not overload the tractor and are operated and maintained in accordance with the instructions issued by the equipment or accessory manufacturer.
18. Remember that your tractor, if abused or incorrectly used, can be dangerous and become a hazard both to the operator and to bystanders. Do not overload or operate with attached equipment which is unsafe, not designed for the particular task or is poorly maintained.
19. The tractor is designed to provide the minimum noise level at the operator’s ears and, in fact, meets or exceeds applicable standards in this respect. However, noise (sound pressure level) in the workplace can exceed 86dB(A) when working between buildings or in confined spaces. Therefore, it is recommended that operator’s wear suitable ear protectors during vehicle operation.

SAFETY PRECAUTIONS

OPERATING THE P.T.O.

1. When operating P.T.O.-driven equipment, shut off the engine and wait until the P.T.O. stops before getting off the tractor and disconnecting the equipment.
2. Do not wear loose clothing when operating the power take-off or when near rotating equipment.
3. When operating stationary P.T.O.-driven equipment, always apply the tractor parking brake and block the rear wheels front and back.
4. To avoid injury, do not clean, adjust, unclog or service P.T.O. driven equipment when the tractor engine is running.
5. Make sure the P.T.O. guard is in position at all times and always replace the P.T.O. cap when the P.T.O. is not in use.

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 refuelling the tractor. Keep any type of open flame away. Wait for the engine to cool before refuelling.
3. Keep the tractor and equipment, particularly brakes and steering, maintained in a reliable and satisfactory condition to ensure your safety and comply with legal requirements.
4. To prevent fire or explosion, keep open flames 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 diesel/hydraulic 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 modify or alter or permit anyone else to modify or alter the tractor or any of its components or any tractor function without first consulting a Ford New Holland dealer.

8. 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.

9. Continuous long term contact with used engine oil may cause skin cancer. Avoid prolonged contact with used engine oil. Wash skin promptly with soap and water.

10. Some components on your tractor, such as gaskets and friction surfaces (brake linings, clutch linings, etc.), may contain asbestos. Breathing asbestos dust is dangerous to your health. You are, therefore, advised to have any maintenance or repair operations on such components carried out by an authorised Ford New Holland dealer. If, however, service operations are to be undertaken on parts that contain asbestos, the following essential precautions must be observed:

- Work out of doors or in a well ventilated area.

SAFETY PRECAUTIONS

SERVICING THE TRACTOR (continued)

- Dust found on the tractor or produced during work on the tractor should be removed by extraction not by blowing.
- Dust waste should be dampened, placed in a sealed container and marked to ensure safe disposal.
- If any cutting, drilling, etc., is attempted on materials containing asbestos, the item should be dampened and only hand tools or low speed power tools used.

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. In a closed container such as a fuel tank these blends are more explosive than pure gasoline. Do not use these blends.
2. Never remove the fuel cap or refuel with the engine running or hot.
3. Do not smoke while refuelling the tractor or when standing near fuel. Keep any type of open flame away. Wait for the engine to cool before refuelling.
4. Maintain control of the fuel filler 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 New Holland approved cap. A non-approved 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 summer grade fuels are not held over and used in the winter.

SAFETY FRAME OR ROLL BAR

Your Ford tractor may be equipped with a safety frame or rollbar which must be maintained in a serviceable condition. Be careful when driving through doorways or working in confined spaces with low headroom.


1. Do not modify, drill, weld or alter the safety frame or roll bar in any way. Doing so could render you liable to legal prosecution in some countries.
2. Never attempt to straighten or weld any part of the safety frame, roll bar or retaining brackets which have suffered damage. By doing so you may weaken the structure and endanger your safety.
3. Do not secure any parts on the safety frame or roll bar or attach it with other than the special high tensile bolts and nuts specified.
4. Never attach chains or ropes to the safety frame or roll bar for pulling purposes.
5. Never take unnecessary risks even though your safety frame or roll bar affords you the maximum protection possible.

Whenever you see this symbol  it means:

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

IDENTIFICATION DECALS

A vehicle identification plate is located under the tractor hood. In addition, if your tractor is equipped with optional four wheel drive, a similar plate is affixed to the rear surface of the front axle housing. For convenience, the numbers shown on the plates should be recorded in the panels below and quoted to your Ford New Holland dealer in the event the tractor requires service.

NEW HOLLAND DE MEXICO S. A.	
TRACTOR NUMBER	
MODEL	
UNIT	
ENGINE	
TRANSMISSION	REAR AXLE
HYDRAULIC PUMP	HYDRAULIC LIFT
A	MADE IN MEXICO
E8NN 9401631 F. A.	

Ref ME3

Vehicle Identification Plate

AXLE TYPE	SERIAL NUMBER
REF. NUMBER	TOTAL RATIO
INPUT ROT.	DIFF. TYPE
OIL SPECIFIC	LIT. LOCATION
	DIFF.
	EPIC.

OM176

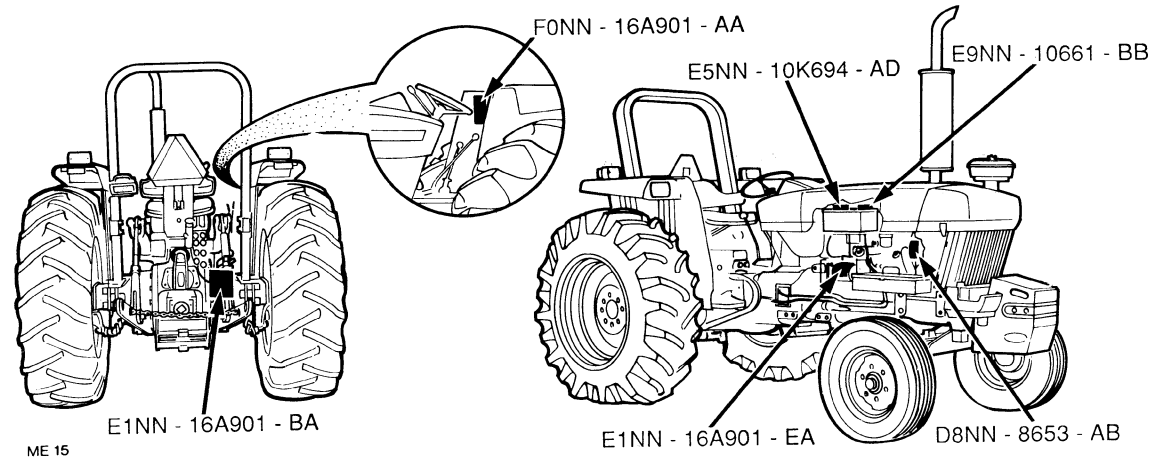
™

Front Axle Identification Plate

SAFETY DECALS

On the following page you will find examples of the decals that are affixed to various parts of your tractor. The particular decals illustrated are specifically those for tractors destined for North America. However, wherever you are located, similar decals will be found on your tractor. The decals are provided to advise you of correct operating techniques and guard against possible hazards. They are provided for your safety!

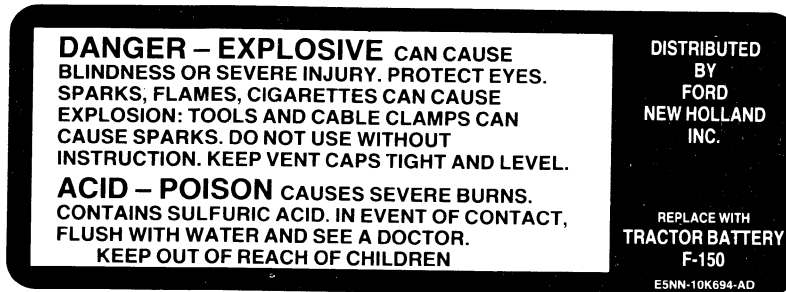
The tractor outline provided below shows the location of decals. If any decal is damaged or otherwise becomes illegible, see your dealer for a replacement.



ME 15

SAFETY DECALS

Replace missing, damaged or illegible decals.



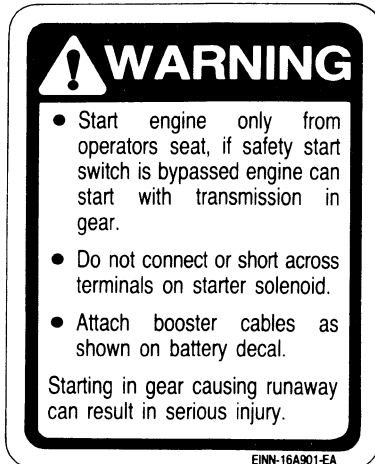
Part No. E5NN-10K694-AD

Location: Top of battery



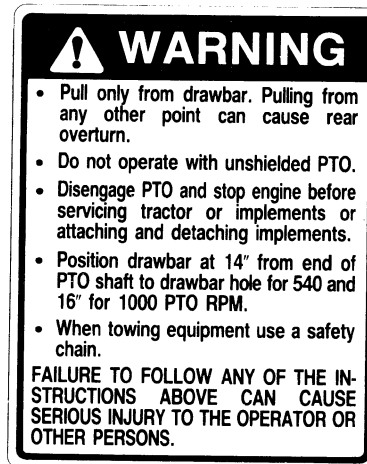
Part No. F0NN-16A901-AA

Location: Right-hand fender



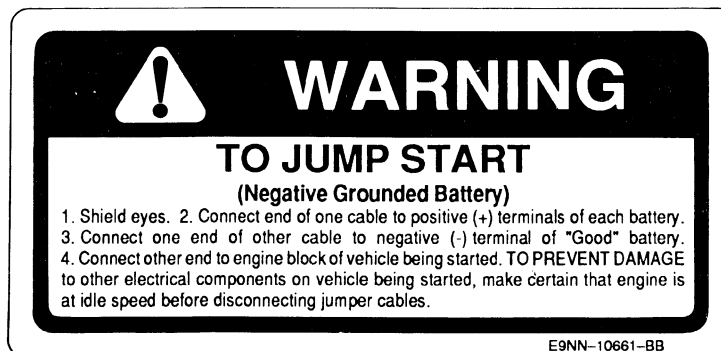
Part No. E1NN-16A901-EA

Location: Starting motor



Part No. E1NN-16A901-BA

Location: Rear of axle housing, right-hand side



Part No. E9NN-10661-BB

Location: Top of battery



Part No. D8NN-8653-AB

Location: Fan shroud, both sides

UNIVERSAL SYMBOLS

As a guide to the operation of your tractor, various universal symbols have been utilised on the instruments controls, switches and fuse box. The symbols are shown below with an indication of their meaning.

	Thermostart starting aid		Headlight dipped beam		Variable control		Position Control
	Alternator charge		Front work lamps		Transmission in neutral		Draft Control
	Fuel level		Rear work lamps		Creeper transmission range		Accessory socket
	Fuel shut-off		Stop lamps		Low transmission range		Implement socket
	Engine speed (rev/min x 100)		Horn		High transmission range		Pressurised! Open carefully
	Hours recorded		Turn signals		Creeper gears		Hitch raise
	Engine oil pressure		Turn signals -one trailer		Slow or low setting		Hitch lower
	Engine coolant temperature		Turn signals -two trailers		Fast or high setting		Steering filter
	Engine coolant temperature (alternative)		Hazard warning lights		Remote valve extend		
	Tractor lights		Warning!		Remote valve retract		
	Air filter		Steering outlet/transmission pressure		Remote valve float		
	Right-hand side lights		FWD engaged		Warning! Corrosive substance		
	Left-hand side lights		FWD dis-engaged		Malfunction! See Operator's Manual		
	Parking brake						
	1000 rev/min P.T.O.						
	540 rev/min P.T.O.						

PRE-DELIVERY SERVICE

CHECK AND ADJUST, AS REQUIRED

INOPERATIVE SERVICE CHECKS:

1. Tyre pressures and condition ☐
2. Lift-rod levelling crank for proper operation ☐
3. Radiator coolant level and specific gravity
(1.071–1.083 at 16° C (60° F)) ☐
4. Fan belt ☐
5. Engine oil level ☐
6. Hydrostatic steering oil level ☐
7. Transmission/rear axle oil level ☐
8. Front axle differential oil level (4wd) ☐
9. Front axle hub oil level (4wd) ☐
10. Brake adjustment and pedal equalisation ☐
11. Clutch pedal free travel ☐
12. Upper link, drawbar and pin in position ☐
13. Wheel-to-rim clamp bolts and lock nuts
for tightness ☐
14. Wheel disc-to-hub nuts for tightness ☐
15. Front end weight clamp bolts for tightness ☐
16. Front axle support bolts for tightness ☐
17. Front axle spindle nuts for proper
tightness (2wd) ☐
18. Front wheel toe-in (4wd) or toe-out (2wd) ☐
19. Fuel level ☐
20. Sheet metal and paint condition ☐
21. Drain diesel fuel filter and water separator ☐
22. Lubricate all grease fittings ☐
23. Dry air cleaner element and hose connections ☐
24. Oil bath air cleaner oil level and connections ☐
25. Seat mounting and adjustment ☐
26. All electrical cables, terminals and wires ☐

OPERATIVE SERVICE CHECKS:

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

1. Lights and instruments for proper operation ☐

OPERATIVE SERVICE CHECKS (continued):

2. Fluid and oil leaks ☐
3. Maximum no-load speed and idle speed ☐
adjustments and fuel shut-off ☐
4. P.T.O. operation ☐
5. Hydraulic System:
Selector levers for Draft and
Position Control operation ☐
Flow control operation ☐
Draft Control for tension and compression
loads ☐
Auxiliary Services Control and remote
control valves (if installed) ☐

PERFORMANCE SERVICE CHECKS:

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

SAFETY ITEMS CHECKS:

1. Seat belt installed (where applicable) ☐
2. Safety decals installed ☐
3. Neutral start switches operative ☐
4. Parking brake operation ☐
5. Flashing lights/tail lights operation ☐
6. Operator's Manual supplied ☐
7. P.T.O. guard installed ☐
8. S.M.V. emblem installed (where applicable) ☐

INSPECTION PERFORMED – WARRANTY EXPLAINED – INSTALLATION COMPLETED

TRACTOR MODEL NO.

TRACTOR SERIAL NO.

OWNER'S SIGNATURE

DATE

DEALER'S SIGNATURE

DATE

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