NEW HOLLAND TJ275 **TJ325 TJ375** TJ425 **TJ450 TJ500** 

P.I.N. RVS003801 and after

**87050659** 5/04







THIS SAFETY ALERT SYMBOL INDICATES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBILITY OF DEATH OR SERIOUS INJURY. M171C

If Safety Decals on this machine use the words **Danger**, **Warning or Caution**, which are defined as follows:

- **DANGER:** Indicates an immediate hazardous situation that, if not avoided, will result in death or serious injury. The color associated with Danger is RED.
- WARNING: Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury. The color associated with Warning is ORANGE.
- CAUTION: Indicates an potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.

If Safety Decals on this machine are ISO two panel pictorial, decals are defined as follows:

- The first panel indicates the nature of the hazard.
- The second panel indicates the appropriate avoidance of the hazard.
- Background color is YELLOW.
- Prohibition symbols such as X and (stop) if used, are RED.



IMPROPER OPERATION OF THIS MACHINE CAN CAUSE DEATH OR SERIOUS INJURY. BEFORE USING THIS MACHINE, MAKE CERTAIN THAT EVERY OPERATOR:

- Is instructed in safe and proper use of the machine.
- Reads and understands the Manual(s) pertaining to the machine.
- Reads and understands ALL Safety Decals on the machine.
- Clears the area of other persons.
- Learns and practices safe use of machine controls in a safe, clear area before operating this machine on a job site.

It is your responsibility to observe pertinent laws and regulations and follow CNH America LLC instructions on machine operation and maintenance.

87050659

Issued December, 2004

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## GENERAL INFORMATION INTRODUCTION TO THIS MANUAL

This manual contains important information about the safe operation, adjustment and routine maintenance of your New Holland TJ Series Tractors. The manual is divided into ten sections as outlined in the General Table of Contents Page(s). Refer to the Detail Index at the end of this manual for locating specific items about your tractor.

Use this manual as a guide. Your tractor will remain a reliable working machine as long as it is kept in good working condition and serviced properly.

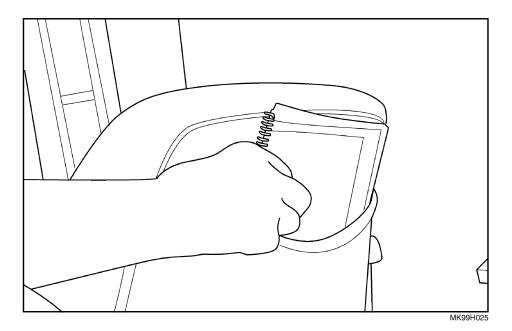
Read this manual before you start the engine or operate this tractor. If any information in this manual is not understood, or if you need more information or assistance, contact your dealer. All persons training to operate, or who will be operating this tractor, should be old enough to possess a valid local vehicle operating permit (or other applicable local age requirement) and must have demonstrated the ability to operate and service the tractor correctly and safely.

If your tractor requires replacement parts, do not use unauthorized parts or substitute materials. New Holland dealers stock approved service parts and have technicians with special training that know the best methods of repair and maintenance for your tractor.

## STATEMENT OF TRACTOR INTENDED USE

The New Holland TJ Series Tractor, with standard equipment and authorized attachments, is intended to be used for customary farming, land leveling and related agriculture operations. Installation of utility (dozer) blades, front loaders or push bars on the tractor is not recommended. Any tractor damage resulting from the installation and/or use of such equipment is not covered by the tractor warranty. The TJ 500 Model tractors are NOT approved for field installed three point hitch or for scraper operations.

## **OPERATOR MANUAL STORAGE COMPARTMENT**



DO NOT permit anyone to operate or service this tractor until you or other operators have read this manual. The Operators Manual is a part of your tractor and must be available to all operators.

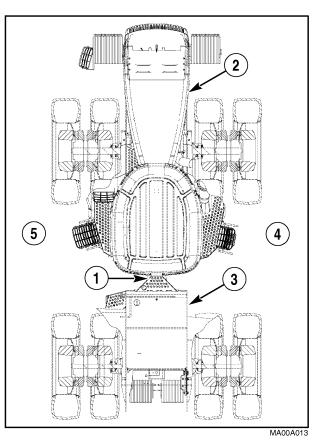
Make sure the manual is complete and in good condition. Store the Operators Manual and other important tractor information in the storage compartment provided on the rear side of the seat backrest.

## **TRACTOR ORIENTATION**

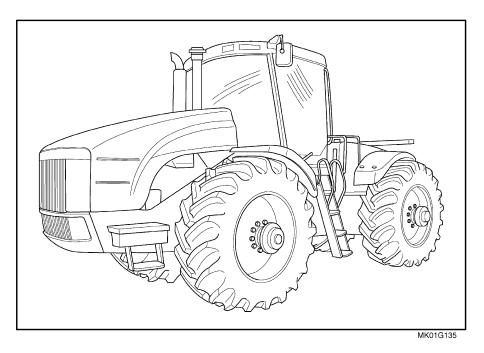
The TJ Series New Holland Tractor is classified as a four-wheel drive articulating vehicle. The standard tractor consists of front and rear frame assemblies that steer by pivoting at the center articulation joint (1).

The standard tractor front frame (2) incorporates the engine, front axle, transmission and cab. The rear frame (3) incorporates the rear axle and fuel tank.

The right hand (RH) (4) and left hand (LH) (5) side of the tractor as used in this manual are the same as your right hand and left hand when sitting in the operators seat looking forward over the engine.



## **TJ SERIES NEW HOLLAND TRACTOR**



## **PRODUCT IDENTIFICATION AND SERIAL NUMBERS**

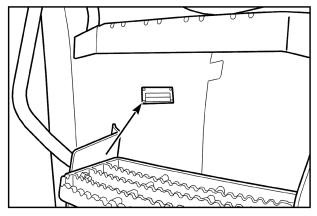
Write your machine Model Number, Product Identification Number (P.I.N.) and Serial Numbers of major components on the lines provided. If needed, give these numbers to your dealer when you need parts or information for your machine.

TRACTOR MODEL AND PRODUCT IDENTIFICATION NUMBERS

Model\_\_\_\_\_

P.I.N. \*RVS\_\_\_\_\_\_

Located on the upper back side of LH side front fender.

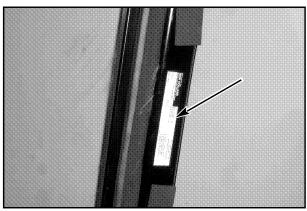


MT04M004

ROPS SERIAL NUMBER

\*RVS\_\_\_\_\_

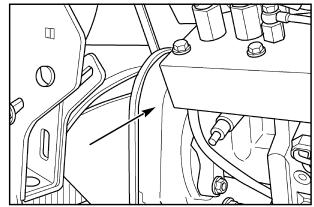
Located under the cover of the LH front ROPS post.



MK01G272

ENGINE SERIAL NUMBER (TJ 275-325)

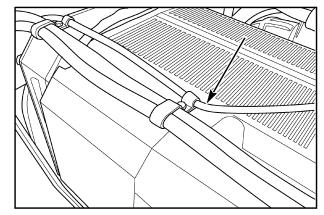
Located on front LH side of engine.



MK99K053

#### ENGINE SERIAL NUMBER (TJ 375-500)

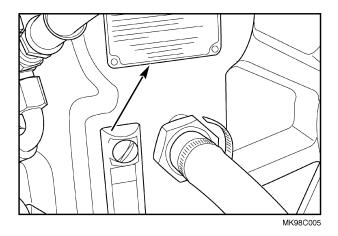
Located on the top LH side of the engine valve cover.



MK01G101

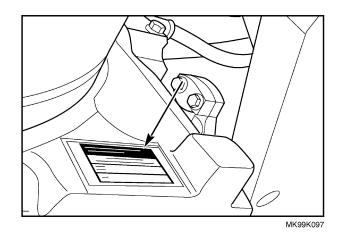
#### TRANSMISSION SERIAL NUMBER

Located on the LH rear side of the transmission.



AXLE SERIAL NUMBER (TJ 275 - 325 - 375 Std)

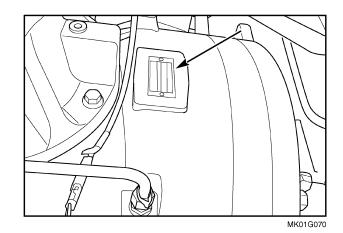
Located on the side of the axle center housing.

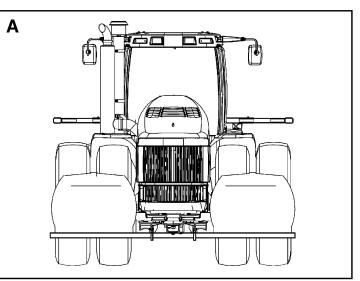


### 1-TO THE OWNER

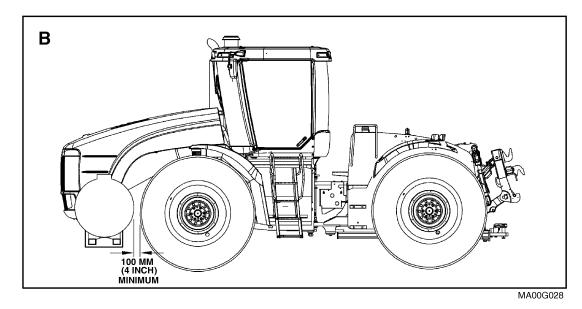
AXLE SERIAL NUMBER - (TJ 375HD, 425, 450, 500)

Located on the final drive housing.





MA01G029



<image><image>

## **CHEMICAL TANK MOUNTING**

WARNING: Additional care must be taken when operating a tractor with chemical tanks. Operating, handling and braking performance of the tractor may be affected. Avoid high speed operation. Travel speed should be such that complete control and machine stability is maintained at all times.\*

Chemical tanks and mounting are not factory supplied. Chemical tanks can be mounted on each front side of the TJ model tractors. The maximum tank capacity for side mounted installation is two 300 gallon (1136 liter) tanks for TJ 275, 325 models and two 350 gallon (1326 liter) tanks for TJ 375, 425, 450 and 500 models.

To avoid structural damage, vendor supplied chemical tanks must be installed according to the following instructions:

- Side mounted chemical tanks must be mounted in pairs with a rigid structure supporting both tanks (A). Side tanks must be interconnected so that the fluid level is the same in both tanks at all times.
- 2. Chemical tanks must be mounted as close to the front axle as possible. Front wheel tread setting is not affected by side tank installation, however the shape and/or size of the tanks can be affected by the required 100 mm (4 inch) minimum clearance in front of the tires (B).
- 3. The tank support structure must be attached to the front frame belly pan in the same location as the front suitcase weight support frame using class 10.9 fasteners (C).

**IMPORTANT:** The tanks MUST NOT be individually supported by the tractor side frames.

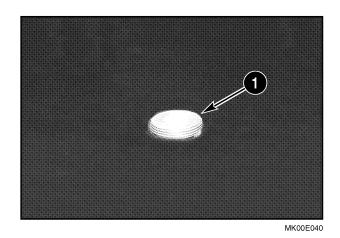
- 4. To reduce the dynamic forces associated with chemical tanks, the tank support structure must also have a rigid type brace extending from each side of the tank support structure to the front side of the front axle center housing. Use the existing pre-drilled and tapped 20 mm holes in the center housing to attach the braces using class 10.9 fasteners (C).
- 5. Front tanks must be mounted to allow the cleanout trap door to open and allow unrestricted access to all service points.
- 6. Refer to the Tire Load And Inflation Tables in this manual for the correct tire size and load capacity for your application. Tires must be inflated to the correct load capacity to support the added weight. To avoid exceeding tire load capacity, remove all front wheel weights.
- 7. Each U.S. gallon (3.8 liter) of tank capacity will add approximately 14 lb (6.3 Kg) to the front axle weight and decrease rear axle weight. DO NOT exceed tire or tractor maximum operating weights.

**IMPORTANT:** Tanks filled to capacity must not be used as primary ballast for heavy tillage operation.

**NOTE:** A generic chemical tank support structure is illustrated only to show acceptable attaching points. Final support structure design and testing is the responsibility of the manufacturer.

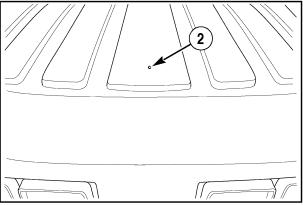
## **BUSINESS BAND RADIOS**

Provisions for installing business band radios have been provided for tractors equipped with the Deluxe cab. The antenna mast mounting threaded spud (1) and antenna lead wire are factory installed in the roof of the cab approximately 2 inches (50 mm) under the cab roof.



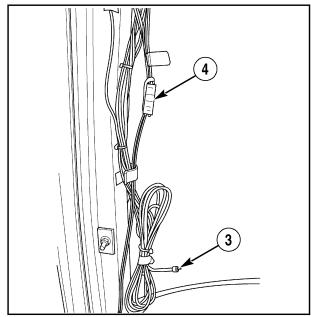
A locating dimple (2) in the cab roof marks the location for drilling the hole for the antenna mast.

**NOTE:** The antenna mast for a one-quarter (1/4) wave UHF business band radio must be purchased locally.



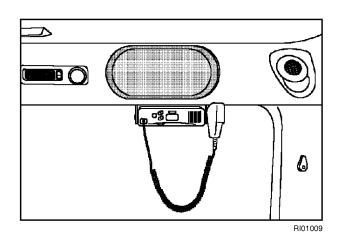
MK00E007

The radio antenna lead wire (3) and power and ground connector (4) are located under the right side rear ROPS post trim cover.



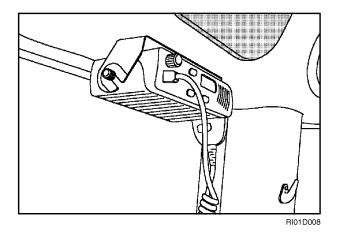
MK00E041

The recommended location for mounting the business band radio is under the RH stereo speaker box. The mounting bracket supplied with the radio must be used.



If necessary, the stereo speaker may be removed to install the radio mounting bracket.

**NOTE:** See your dealer for additional information and procedures for installing a business band radio.



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