

NEW HOLLAND

T6010

T6020

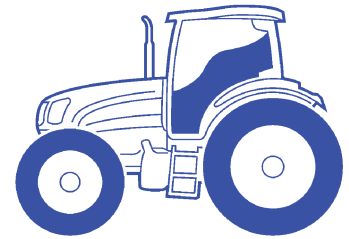
T6030

T6050

T6070

Delta and Plus
Models

87717170 11/07
Replaces 82999312



NEW HOLLAND

OPERATOR'S MANUAL

TO THE OWNER

This manual contains information concerning the adjustment and maintenance of your New Holland T6010, T6020, T6030, T6050, T6070 Tractor. You have purchased a dependable machine, but only by proper care and operation can you expect to receive the performance and long service built into this tractor. Please have all operators read this manual carefully and keep it available for ready reference.

This machine was designed to power and propel itself. It is intended to load and move materials with a variety of buckets and forks. Allied attachments built and supplied by other manufacturers can be used on the tractor where recommended and approved by New Holland.

Your New Holland dealer will instruct you in the general operation of your tractor. (Refer to the "Delivery Report" at the back of this manual.) Your dealer's staff of factory-trained service technicians will be glad to answer any questions that may arise regarding the operation of your tractor.

Your New Holland dealer carries a complete line of genuine New Holland service parts. These parts are manufactured and carefully inspected to insure high quality and accurate fitting of any necessary replacement parts. Be prepared to give your dealer the model and PIN number of the engine and tractor, when ordering parts. Locate these numbers now and record them below. Refer to the "General Information" section of this manual for the location of the model and PIN numbers of your tractor.

Model _____ Engine Model _____

PIN Number _____ Engine Serial Number _____

IMPROVEMENTS

CNH America LLC is continually striving to improve its products. We reserve the right to make improvements or changes when it becomes practical and possible to do so, without incurring any obligation to make changes or additions to the equipment sold previously.

CONTENTS

Section 1

General Information and Safety	1-1
End User Licence Agreement Terms	1-2
Ecology and the Environment	1-5
Precautionary Statements	1-6
Personal Safety	1-6
Machine Safety	1-6
Information	1-6
Safety Precautions	1-7
Fire or Explosion Prevention	1-14
Fire Prevention - Engine Area	1-14
Operator Protective Structure	1-16
Safety Decals	1-17
International Symbols	1-23
Airborne Noise Emission	1-24

Section 2

Controls, Instruments, and Operation	2-1
Cab and Platform Controls	2-2
Platform Controls	2-4
Cab (Where Fitted)	2-7
Seats	2-22
Hand Brake, Throttle and Foot Pedals	2-29
Instrument Console	2-31
Gauges	2-34
Indicator and Warning Lights	2-35
Liquid Crystal Displays	2-38
Dot Matrix Display	2-40
Enhanced Keypad and Performance Monitor (Where Fitted)	2-53
Transmission Operation	2-62
12 X 12 Synchro Command™ Transmission	2-64
24 X 24 Dual Command™ Transmission	2-68
Electro Shift/Autoshift™ Transmission	2-75
Differential Lock	2-90
Four Wheel Drive (Where Fitted)	2-92
Terraglide™ Front Axle Suspension (Where Fitted)	2-94

Section 3

Field Operation	3-1
Jump Starting the Tractor	3-4
Starting the Engine	3-5
Fast Steer (Where Fitted)	3-9
Rear Power Take-Off	3-11
Mechanical Draft Control	3-18
Electronic Draft Control	3-23
Closed Center Hydraulic Remote Control Valves	3-40
Electro-hydraulic Remote Control Valves	3-49
Additional Oil Supply for Remote Hydraulic Services (Power Beyond Port, Where Fitted)	3-61
Three-point Linkage	3-63
Drawbars and Towing Attachments	3-69
Equipment Mounting Points	3-72
Wheel Track Adjustment	3-73
Dynamic Front Fenders (Where Fitted)	3-78
Ballasting and Tires	3-85
Tractor Weight Information	3-87

Section 4

Lubrication and Maintenance	4-1
Guards	4-6
Lubricants and Coolants	4-9
Lubricant and Coolant Specification	4-10
Lubrication and Maintenance Chart	4-11
When the Warning Lamp Lights Maintenance	4-12
Every 10 Hours or Daily (Whichever Comes First)	4-15
Every 50 Hours	4-17
Every 100 Hours	4-26
Every 300 Hours	4-26
Every 600 Hours	4-29
Every 1200 Hours or 12 Months (Whichever Occurs First)	4-36
Every 1200 Hours or 2 Years (Whichever Occurs First)	4-40
Every 1800 Hours Maintenance	4-45
Every 3 Years Maintenance	4-45
General Maintenance (Whichever Occurs First).	4-46
Fuse and Relay Locations	4-56

Section 5

Troubleshooting	5-1
Engine Troubleshooting	5-2
Transmission Troubleshooting - Synchro Command	5-5
Transmission Troubleshooting - Dual Command	5-6
Transmission Troubleshooting - Electro Command	5-7
Hydraulics Troubleshooting	5-8
Three-point Linkage Troubleshooting	5-9
Brakes Troubleshooting	5-10
Cab Troubleshooting	5-10
Electrical System Troubleshooting	5-11

Section 6

Vehicle Storage	6-1
-----------------------	-----

Section 7

Accessories	7-1
-------------------	-----

Section 8

Tractor Specifications	8-1
General Dimensions T6010 and T6020	8-2
General Dimensions T6030, T6050, and T6070	8-4
Minimum Hardware Tightening Torques	8-20

Section 9

Delivery Report	9-1
First 50 Hour Service	9-5

Section 10

Index	10-1
-------------	------

FEDERAL EMISSIONS WARRANTY

(North America Only)

(California owner's emissions warranty is covered elsewhere)

CNH UK Ltd warrants that your new 1996 and later heavy-duty off-road diesel engine was designed, built, and equipped to conform to applicable U.S. Environmental Protection Agency regulations for a period of use of five years or 3,000 hours of operation, whichever occurs first.

The new model year, class of diesel engine, and emission application determination for your engine are identified on the emission control information label affixed to the engine. The warranty period begins on the date the new equipment is sold to the first retail purchaser.

Any emission control system parts which are proven defective during normal use will be repaired or replaced during the warranty period. The warranty repairs and service will be performed by any authorized CNH dealer at the dealer's place of business, with no charge for parts or labor (including diagnosis).

As the engine owner, you are responsible to perform all the required maintenance listed in your owner's manual. CNH UK Ltd will not deny an emission warranty claim solely because you have no record of maintenance; however, a claim may be denied if your failure to perform maintenance resulted in the failure of a warranted part. Receipts covering regular maintenance should be retained in the event of questions and these receipts should be passed on to each subsequent owner of the engine.

It is recommended replacement parts used for maintenance or repairs be CNH Service Parts to maintain the quality originally designed into your emission certified engine. The use of non-CNH parts does not invalidate the warranty on other components unless the use of such parts causes damage to warranted parts.

CNH UK Ltd wishes to assure the emission control systems warranty is being properly administered. If you believe you have not received the service entitled to under this warranty, you should contact the nearest CNH Office for assistance. The address and phone number of each Office is in your equipment owner's manual. If additional assistance or information is needed, contact:

Service Department
CNH America, LLC
500 Diller Avenue
New Holland, PA 17557
(717) 355-1121

Please note that the Emission Warranty does not cover:

1. Systems and parts that were not first installed on the new equipment or engine as original equipment by CNH UK Ltd.
2. Part malfunctions caused by abuse, misuse, improper adjustment, modification, alteration, tampering, disconnection, improper or inadequate maintenance, or use of non-recommended fuels and lubricating oils.
3. Accident caused damage, acts of nature, or other events beyond CNH UK Ltd's control.
4. Replacement of expendable items made in connection with scheduled maintenance.
5. Parts requiring replacement, inspection or adjustment maintenance intervals for reasons other than being defective.
6. Parts which are not CNH Service Parts.
7. Loss of time, inconvenience, loss of use of equipment/engine or commercial loss.
8. Equipment with altered or disconnected hourmeter where the hours cannot be determined.
9. Equipment normally operated outside the United States.
10. Non-defective parts replaced by other than CNH dealers.

Coverage

This emission control system warranty applies only to the following emission control parts.

Electronic Control Unit
Fuel Injection Pump
Fuel Injectors
Turbocharger
Intake Manifold
Exhaust Manifold
Boost Pressure Tubing-connection to Aneroid Device ON F.I.P.

CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT

(North America Only)

(California Only)

Your Warranty Rights and Obligations

The California Air Resources Board and CNH UK LTD are pleased to explain the emission control system warranty on your engine. In California, new 2004 and later heavy-duty off-road engines from 50 to 750 HP must be designed, built and equipped to meet the State's stringent anti-smog standards. CNH UK LTD must warrant the emission control system on your engine for the periods of time listed below, provided there has been no abuse, neglect or improper maintenance of your engine.

Your emission control system includes parts such as the fuel injection system and the air induction system.

Where a warrantable condition exists, CNH UK LTD will repair your heavy-duty off-road engine at no cost to you including diagnosis, parts and labor.

Manufacturer's Warranty Coverage:

The 2004 and later heavy-duty off-road engines are warranted from the original date of delivery for five years or 3000 hours of operation, whichever occurs first. If any emission-related part on your engine is defective, the part will be repaired or replaced by CNH UK LTD.

Owner's Warranty Responsibilities:

- As the heavy-duty off-road engine owner, you are responsible for the performance of the required maintenance listed in your owner's manual. CNH UK LTD recommends that you retain all receipts covering maintenance on your heavy-duty off-road engine, but CNH UK LTD cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.
- As the heavy-duty off-road engine owner, you should, however, be aware that CNH UK LTD may deny you warranty coverage if your heavy-duty off-road engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.
- Your engine is designed to operate on commercially available diesel fuel only. Use of any other fuel may result in your engine no longer operating in compliance with California's emissions requirements.
- You are responsible for initiating the warranty process. The ARB suggests that you present your heavy-duty off-road engine to a CNH dealer as soon as a problem exists. The warranty repairs should be completed by the dealer as expeditiously as possible.
- If you have any questions regarding your warranty rights and responsibilities, you should contact your nearest CNH Office at the address and telephone number listed on the Owner Assistance page of your equipment's operator manual.
- Prior to the expiration of the warranty, you must give notice of any failure of an emission control warranted part. Such notice must be given to CNH UK LTD or an authorized CNH dealer, and you must deliver the engine to the repair location.
- You, the owner, are responsible for incidental costs incurred by yourself or your employees as a result of an unwarrantable failure. Examples of such costs are communication expenses, meals and lodging.
- The owner is responsible for any business costs or losses, any "downtime" expenses and any "cargo" damage which result from the failure of a warranted part. CNH UK LTD is not responsible for other incidental or consequential damages, including, but not limited to fines, theft, vandalism or collisions.

Parts covered:

This emission control system warranty applies to the following emission control parts:

Electronic Control Unit
Fuel Injection Pump
Fuel Injectors
Turbocharger

Intake Manifold
Charge Air Cooler
Exhaust Manifold
Boost Pressure Tubing (connection to Aneroid Device on F.I.P.)

Any replacement part, equivalent in performance and durability, may be used in the performance of any maintenance or repairs and must be provided without charge to the owner. The use of these parts does not reduce the warranty obligations of CNH UK LTD. However, CNH UK LTD recommends the use of new, genuine CNH service parts or CNH approved rebuilt parts and assemblies. CNH UK LTD also recommends that the engine be serviced by a CNH authorized dealer.

CNH UK LTD Responsibilities:

Warranty work will be provided at no charge to the owner at any authorized dealer, using genuine CNH service parts or CNH approved rebuilt parts or assemblies.

The owner will not be charged for diagnostic labor which leads to the determination that a warranted part is defective, if the diagnostic work was performed at a warranty station.

CNH UK LTD is liable for damages to other engine components caused by the failure under warranty of any warranted part.

Warranty Limitations

CNH UK LTD is not responsible for failures resulting from abuse or neglect by owner or operator.

CNH UK LTD warrants to the ultimate purchaser and each subsequent purchaser that the engine is designed, built, and equipped so as to conform with all applicable regulations adopted by the Air Resources Board, and that it is free from defects in materials and workmanship which cause the failure of a warranted part.

Any warranted part which is not scheduled for replacement as required maintenance, or which is scheduled only for regular inspection to the effect of "repair or replace as necessary" is warranted for the warranty period.

Any warranted part which is scheduled for replacement as required maintenance is warranted for the period of time prior to the first scheduled replacement point of that part.

CNH UK LTD is not liable to warrant failures caused by the use of add-on or modified parts.

CNH UK LTD is concerned to ensure proper maintenance of the engine to maximise emissions performance. Information on care and replacement of engine air cleaner, and all other aspects of engine maintenance is provided in a manual supplied to the owner. A maintenance schedule chart is provided in the manual.

(North America Only)
(California Only)

CALIFORNIA

Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

SECTION 1

GENERAL INFORMATION AND SAFETY

GENERAL

This Manual has been prepared to assist you in the correct procedure for running-in, driving and operating and for the maintenance of your new tractor. Read this Manual carefully. Your tractor is intended for use in normal and customary agricultural applications.

If at any time you require advice concerning your tractor, do not hesitate to contact your authorized dealer. They have factory trained personnel, genuine manufacturers' parts and the necessary equipment to carry out all your service requirements.

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 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 Section 4 of this Manual, are carried out at the recommended intervals.

OPERATORS MANUAL STORAGE

A storage pocket for the Operators Manual can be found on the rear of the seat. The manual should be kept in this pocket at all times when not in use.

CLEANING THE TRACTOR

Your tractor is a state-of-the-art machine with sophisticated, electronic controls. This should be borne in mind when cleaning the tractor, particularly if using a high pressure washer. Even though every precaution has been taken to safeguard electronic components and connections, the pressure generated by some of these machines is such that complete protection against water ingress cannot be guaranteed.

When using a high pressure washer, do not stand too close to the tractor and avoid directing the jet at electronic components, electrical connections, breathers, seals, filler caps, etc. Never direct a cold water jet at a hot engine or exhaust.

SAFETY

Pages 1-6 to 1-16 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.

FIRST 50 HOUR SERVICE

In Section 9, at the back of this Manual, you will find the 50-hour service reports.

After you have operated the tractor for 50 hours, take your tractor, together with this Manual, to your dealer. They will then perform the factory recommended 50 hour service and complete the service report sheets (pages 9-5 and 9-7). The first sheet (page 9-5) is the dealer's copy and should be removed by the dealer after the service has been carried out. The second sheet (page 9-7) is your copy of the service performed. **Ensure that you and the dealer sign both copies.**

SERVICE PARTS

It should be pointed out that genuine parts have been examined and approved by the Company. The installation and/or use of 'non-genuine' products could have negative effects upon the design characteristics of your tractor and thereby affect its safety. The Company is not liable for any damage caused by the use of 'non-genuine' parts and accessories. Only genuine New Holland replacement parts should be used. The use of non-genuine parts may invalidate legal approvals associated with this product.

It is prohibited to carry out any modifications to the tractor unless specifically authorized, in writing, by the After Sales Service department of the Company.

WARRANTY

Your tractor is warranted according to legal rights in your country and the contractual agreement with the selling dealer. No warranty shall, however, apply if the tractor has not been used, adjusted and maintained according to the instructions given in the Operator's Manual.

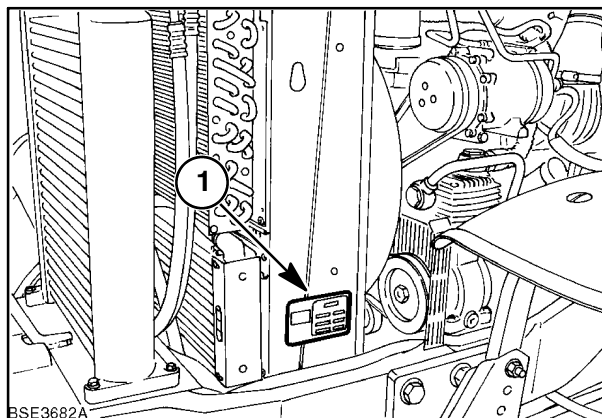
END USER LICENCE AGREEMENT TERMS

- You have acquired a device ("DEVICE") that includes Software licensed by CNH America LLC from Microsoft Licensing, GP or its affiliates ("MS"). Those installed software products of MS origin, as well as associated media, printed materials, and "online" or electronic documentation ("SOFTWARE") are protected by international intellectual property laws and treaties. The SOFTWARE is licensed, not sold. All rights reserved.
- IF YOU DO NOT AGREE TO THIS END USER LICENSE AGREEMENT ("EULA"), DO NOT USE THE DEVICE OR COPY THE SOFTWARE. INSTEAD, PROMPTLY CONTACT CNH AMERICA LLC FOR INSTRUCTIONS ON RETURN OF THE UNUSED DEVICE(S) FOR A REFUND. **ANY USE OF SOFTWARE INCLUDING BUT NOT LIMITED TO USE ON THE DEVICE, WILL CONSTITUTE YOUR AGREEMENT TO THIS EULA (OR RATIFICATION OF ANY PREVIOUS CONSENT.)**
- **GRANT OF SOFTWARE LICENSE.** This EULA grants you the following license:
 - You may use the SOFTWARE only on the DEVICE.
 - **NOT FAULT TOLERANT.** THE SOFTWARE IS NOT FAULT TOLERANT. CNH AMERICA LLC HAS INDEPENDENTLY DETERMINED HOW TO USE THE SOFTWARE IN THE DEVICE, AND MS HAS RELIED UPON CNH AMERICA LLC TO CONDUCT SUFFICIENT TESTING TO DETERMINE THAT THE SOFTWARE IS SUITABLE FOR SUCH USE.
 - **NO WARRANTIES FOR THE SOFTWARE.** THE SOFTWARE is provided "AS IS" and with all faults. THE ENTIRE RISK AS TO SATISFACTORY QUALITY, PERFORMANCE, ACCURACY AND EFFORT (INCLUDING LACK OF NEGLIGENCE) IS WITH YOU. ALSO, THERE IS NO WARRANTY AGAINST INTERFERENCE WITH YOUR ENJOYMENT OF THE SOFTWARE OR AGAINST INFRINGEMENT. **IF YOU HAVE RECEIVED ANY WARRANTIES REGARDING THE DEVICE OR THE SOFTWARE, THOSE WARRANTIES DO NOT ORIGINATE FROM, AND ARE NOT BINDING ON, MS.**
 - **No Liability for Certain Damages. EXCEPT AS PROHIBITED BY LAW, MS SHALL HAVE NO LIABILITY FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL OR INCIDENTAL DAMAGES ARISING FROM OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE SOFTWARE. THIS LIMITATION SHALL APPLY EVEN IF ANY REMEDY FAILS OF ITS ESSENTIAL PURPOSE. IN NO EVENT SHALL MS BE LIABLE FOR ANY AMOUNT IN EXCESS OF U.S. TWO HUNDRED AND FIFTY DOLLARS (U.S. \$250.00)**
 - **Limitations on Reverse Engineering, Decompilation, and Disassembly.** You may not reverse engineer, decompile, or disassemble the SOFTWARE, except and only to the extent that such activity is expressly permitted by application law notwithstanding this limitation.
 - **SOFTWARE TRANSFER ALLOWED BUT WITH RESTRICTIONS.** You may permanently transfer rights under this EULA only as part of a permanent sale or transfer of the DEVICE, and only if the recipient agrees to this EULA. If the SOFTWARE is an upgrade, any transfer must also include all prior versions of the SOFTWARE.
 - **EXPORT RESTRICTIONS.** You acknowledge that SOFTWARE is subject to U.S. export jurisdiction. You agree to comply with all applicable international and national laws that apply to the SOFTWARE, including the U.S. Export Administration Regulations, as well as end-user, end-use and destination restrictions issued by U.S. and other governments. For additional information see <http://www.microsoft.com/exporting/>.

PRODUCT IDENTIFICATION

The tractor and major components are identified using product identification numbers and/or manufacturing codes. Tractor identification data must be supplied to the dealer when requesting parts or service and will also be needed to aid in identifying the tractor if it is ever stolen.

The following provides the locations of the identification data.



1

Vehicle Identification Plate

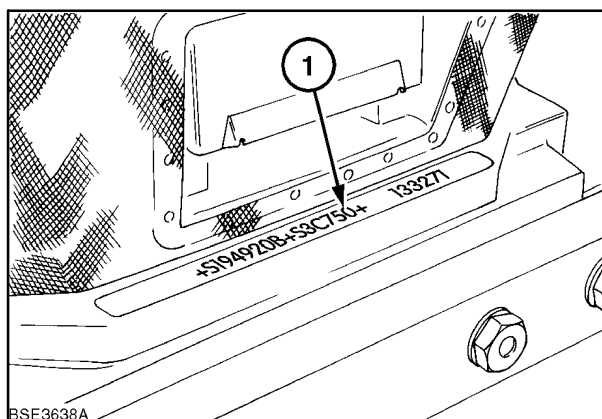
The vehicle identification plate, 1, Figure 1, is located on the left-hand radiator support. Record the information on the sample identification plate provided below.

CNH INTERNATIONAL S.A.	TRACTOR NUMBER	
	MODEL	DRIVELINE
	ENGINE	HYDRAULIC PUMP
	HYDRAULIC LIFT	FRONT AXLE
Made in England		

2

Tractor Identification

The product identification number and model identification information is stamped on the top of the front support, 1. These numbers are also repeated on the vehicle identification plate reproduced above.



3

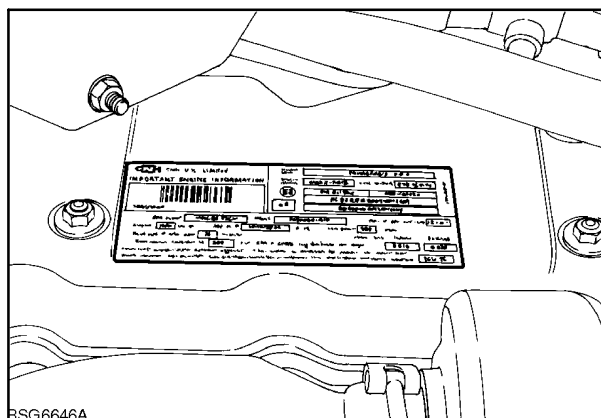
Engine Identification

The engine PIN number and date code are stamped on the engine identification plate.

The identification plate is located on top of the engine attached to the valve cover. The plate also provides information on engine adjustments and compliance with Emission Regulations where required.

Record the information below for quick reference.

Engine PIN No. _____

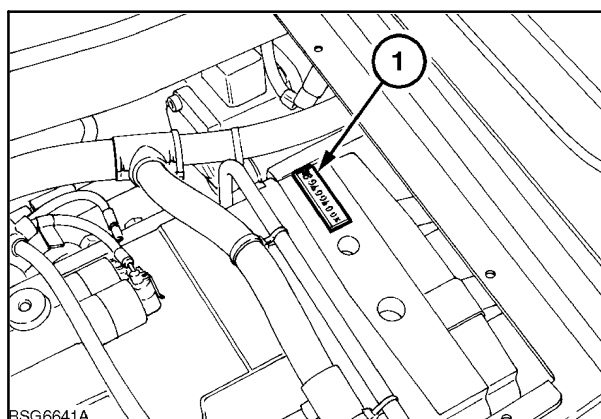


4

Driveline Identification

The PIN number plate, 1, is located on top of the transmission casing. Access to the number can be gained by removing the plate in the floor of the cab as shown in the illustration. This number is repeated on the vehicle identification plate. Record the information below for quick reference.

Driveline PIN No. _____

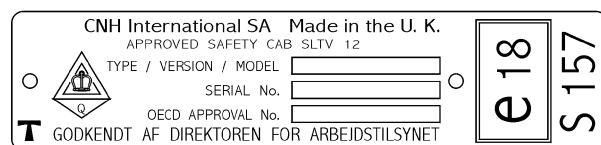


5

Cab Identification

The cab PIN number and other information is on the OECD certification plate. This plate can be found on the right-hand side of the cab trim panel, below the rear window. Record the cab serial number below for quick reference.

Cab PIN No. _____



6

Vehicle Weight Information

The Vehicle Weighting Plate provides important information on tractor and towed equipment weight combinations. This plate can be found on the right-hand side of the cab trim panel, below the rear window.

The figures shown are the maximum permissible weights and should not be exceeded, to do so may affect the safe operation of the tractor.

CNH International SA		Made in the U.K.		ABS COMET
TYPE				
No.				
IDENTIFICATION No.				
TOTAL PERMISSIBLE MASS	:		KG	
PERMISSIBLE FRONT AXLE LOAD	:		KG	
PERMISSIBLE REAR AXLE LOAD	:		KG	
☐ PERMISSIBLE TOWABLE MASS				☐
UNBRAKED TOWABLE MASS	:		KG	
INDEPENDENTLY - BRAKED	:		KG	
INERTIA - BRAKED	:		KG	
ASSISTED BRAKE	:		KG	

7

Thank you so much for reading.
Please click the “Buy Now!”
button below to download the
complete manual.



After you pay.

You can download the most
perfect and complete manual in
the world immediately.

Our support email:

ebooklibonline@outlook.com