

ORIGINAL INSTRUCTIONS - according to Directive 2006/42/EC, Annex I 1.7.4.1

Magnum 235

Magnum 260

Magnum 290

Magnum 315

Magnum 340

Tractor

from PIN ZBRD07000 and after

OPERATOR'S MANUAL

Part number 84514631

1st edition English

September 2011



Contents

1 GENERAL INFORMATION

Your tractor	1-1
Declaration of conformity	1-2
Tractor intended use	1-4
Manual storage	1-6
Product identification	1-7
Machine orientation	1-9
Component location	1-10

2 SAFETY INFORMATION

Safety rules and signal word definitions	2-1
Read the Operators Manual	2-2
Safety rules - General	2-2
Safety rules - Air conditioning system	2-3
Safety rules - Basic operating	2-3
Safety rules - Battery	2-4
Safety rules - Driving on public roads	2-4
Safety rules - Electrical storm safety	2-5
Safety rules - Fire prevention	2-5
Safety rules - General maintenance	2-5
Safety rules - Hazardous chemicals	2-7
Safety rules - Implements, tools and trailers	2-7
Safety rules - Instructional seat	2-8
Safety rules - Mounting and dismounting	2-8
Safety rules - Operator presence system	2-8
Safety rules - PTO operation	2-8
Safety rules - Roll over and tip over	2-9
Safety rules - Utility power lines	2-9
Safety rules - Vehicle vibration	2-10
Safety rules - Wheels and tires	2-10
Roll over protective structure (ROPS)	2-12
FOPS	2-13
Noise levels	2-14
Vehicle vibration levels	2-15
Fire extinguisher	2-16
Emergency exit	2-16
Wheel wedges	2-17
Safety decals	2-18
Safety decals	2-28
Selective catalytic reduction (SCR) decal	2-39
Ecology and the environment	2-40

3 CONTROLS/INSTRUMENTS

ACCESS TO OPERATOR'S PLATFORM

Tractor access	3-1
----------------------	-----

OPERATOR'S SEAT

Overview	3-2
Control identification	3-3

INSTRUCTOR'S SEAT

Overview	3-6
----------------	-----

FORWARD CONTROLS

Steering column	3-7
Front console	3-10
Pedal controls	3-12

LEFT-HAND SIDE CONTROLS

Emergency brake lever	3-14
-----------------------------	------

RIGHT-HAND SIDE CONTROLS

Armrest console	3-15
Multi function handle	3-16
Control panel	3-20
Remote valve controls	3-28
Joystick	3-29
Armrest compartment	3-31
Adjusting the armrest console	3-33

REARWARD CONTROLS

Fender console	3-34
Automatic temperature controls	3-37
Automatic temperature control system	3-40
Ventilation	3-41

OVERHEAD CONTROLS

Interior lamps	3-43
----------------------	------

EXTERIOR CONTROLS

Rear fender controls	3-44
Front hitch	3-45

INSTRUMENT CLUSTER

Overview	3-46
Gauges	3-46
Status and warning icons	3-48
Upper display	3-51
Lower display	3-53
Keypad	3-55
Setup menu	3-57
Rear tire radius chart	3-63

Adjust menu	3-64
Performance instrumentation	3-71

4 OPERATING INSTRUCTIONS

COMMISSIONING THE UNIT

Before starting the engine	4-1
----------------------------------	-----

STARTING THE UNIT

Normal engine starting	4-4
Cold starting aids	4-7
Cold temperature operation	4-9
Cold temperature operation	4-11

STOPPING THE UNIT

Stopping the engine	4-13
---------------------------	------

MOVING THE UNIT

Powershift transmission	4-14
Best practices for prolonged transmission life	4-15
Inching pedal and throttle	4-16
Transmission controls	4-17
Upper display	4-20
Driving the vehicle	4-22
Setting default gears	4-27
Automatic productivity management (APM)	4-29
Selective catalytic reduction (SCR) system	4-36
SCR inducement strategy - 2011	4-37
SCR inducement strategy - 2012	4-41
Mechanical front drive (MFD)	4-44
Differential lock system	4-48
Suspended axle	4-51
Ride control	4-59
Constant engine speed	4-61
Electronic end of row system	4-64

5 TRANSPORT OPERATIONS

ROAD TRANSPORT

Tractor warning lamps	5-1
Tractor warning lamps	5-2
Safe transport speed	5-3

SHIPPING TRANSPORT

Securing the tractor for shipping	5-4
---	-----

RECOVERY TRANSPORT

Safety rules	5-5
Towing the tractor	5-6

6 WORKING OPERATIONS

GENERAL INFORMATION

Product overview	6-1
------------------------	-----

REAR PTO

Safety rules	6-2
Connecting the PTO	6-6
Interchangeable PTO shaft	6-7
Rear PTO operation	6-13
PTO fender switch operation	6-17
Auto PTO operation	6-18

FRONT PTO

Overview	6-21
Front PTO operation	6-22

REAR HITCH

Identification	6-25
Link adjustment	6-26
Hitch high clearance adjustment	6-30
Hydraulic links	6-33
Sway limiter adjustment	6-35
Lower link block adjustment	6-36
Mechanical float adjustment	6-38
Hitch operation	6-39
Hitch remote switch operation	6-44
Position control operation	6-46
Load control operation	6-48
Slip control operation	6-50
Hitch set point	6-52

FRONT HITCH

Overview	6-54
Front hitch operation	6-55

DRAWBARS AND TOWING ATTACHMENTS

Rear towing - Safety rules	6-61
Drawbar capacity/position	6-63
Adjusting the drawbar	6-65

TRAILER HITCHES

Clevis and special drawbars.....	6-67
Automatic trailer hitch	6-69
Auto pickup hitch operation.....	6-72
Manual trailer hitch	6-74

AUXILIARY POWER CONNECTIONS

Auxiliary power and lighting	6-76
Auxiliary power and lighting	6-78
Auxiliary power and lighting	6-79
Cab power connections	6-80

HYDRAULIC REMOTE CONTROL VALVES

Valve couplers and connections.....	6-82
Motor return circuit	6-85
Power beyond circuit	6-86
Flow capacity	6-86
Hydraulic transport lock	6-88
Operating the controls.....	6-89
Remote valve display screens.....	6-93
Auto depth control	6-97
Joystick operation	6-99

BALLASTING THE TRACTOR

Guidelines	6-102
Tire load and inflation charts	6-106
Weights, cast metal and liquid.....	6-107
Wheel slip and power hop performance	6-115

MECHANICAL FRONT DRIVE (MFD) AXLES

Tire combinations and tread positions.....	6-118
Steering and oscillation stops	6-123
Tread and fender settings - standard MFD axles.....	6-126
Tread and fender settings - heavy duty MFD axles	6-127
Tread and fender settings - heavy duty class 5 MFD axles	6-128
Tread and fender settings - heavy duty class 5 suspended MFD axles.....	6-129
Tread and fender settings - scissors suspension MFD axles	6-131
Tread and fender settings - German tractors.....	6-132

REAR AXLE

Rear wheel installation	6-136
Rear wheel tread settings	6-138

7 MAINTENANCE

GENERAL INFORMATION

Safety rules	7-1
Opening the hood	7-2
Closing the hood	7-3
Filling the fuel tank	7-4
Filling the DEF/AdBlue® tank	7-5
Battery disconnect switch	7-6
Battery access and service	7-7
Tire and rim service	7-9
Tractor jacking points	7-11
Capacities	7-13
Consumables - Engine oil	7-15
Consumables - Diesel fuel	7-17
Consumables - Biodiesel fuels	7-18
Consumables - Diesel exhaust fluid (DEF)/AdBlue®	7-20
Consumables - Coolant solutions	7-22
Electrical component location	7-23
Lamps and bulbs	7-28
Maintenance chart notes	7-29

MAINTENANCE CHART

Maintenance Chart	7-30
-------------------------	------

At warning message display

Air filter service icon/message	7-32
Fuel filter water separator	7-33
Transmission oil filter switch	7-34
Hydraulic oil filter switch	7-37

First 10 to 50 hours

Differential and planetary oil	7-40
Wheel bolt torque	7-40
Weight bolt torque	7-40

Every 10 hours or daily

Engine oil level	7-41
Transmission oil level	7-42
Engine coolant level	7-43
Engine auxiliary fuel filter	7-44
Air reservoir	7-45
Rear hitch and front axle	7-46

Every 50 hours or weekly

Engine fuel pre-filter	7-47
------------------------------	------

Every 100 hours

Front hitch	7-48
Front PTO drive shaft	7-50

Every 300 hours

Battery water level (Note E)	7-51
Engine air intake hoses	7-53
Engine coolant level - deaeration tank	7-55
Wheel bolt torque	7-56
Weight bolt torque	7-56
Front axle (Note A)	7-57
Rear hitch (Note A)	7-66
Fuel tank	7-68
Differential and planetary oil level (Note B)	7-69
Transmission oil pressure	7-71
Front PTO oil level	7-72

Every 400 hours

Cab air filter	7-73
----------------------	------

Every 600 hours

Engine oil and filter	7-76
Engine coolant antifreeze protection	7-78
Engine coolant hoses and clamps	7-78
Engine primary fuel filter	7-80
Engine fuel pre-filter	7-83
Fuel system bleeding	7-86
Changeable PTO internal splines	7-88
DEF/AdBlue® in-line filter	7-89
Front PTO oil and filter	7-91

Every 1000 hours or annually

Pneumatic brake system dryer	7-92
------------------------------------	------

Every 1200 hours or annually

Differential and planetary oil	7-92
Engine air filters	7-97
Engine air precleaner	7-101

Every 1500 hours

Transmission oil	7-103
Transmission oil filter	7-105
Regulated transmission filter	7-106
Engine crankcase filter	7-107

Every 1800 hours

DEF/AdBlue® supply module filter	7-111
--	-------

Every 2000 hours

Engine coolant	7-112
Engine valve adjustment (Note C)	7-115

Every 3000 hours

Engine vibration damper (Note C)	7-116
Emergency steering system	7-117

Every 5000 hours

Fuel injector nozzles (Note C)	7-118
--------------------------------------	-------

As required

Vehicle fire prevention	7-119
Engine primary air filter	7-120
Grille screen and radiator area	7-123
Fuel tank vent filter	7-125
Transmission clutch and accumulator	7-125
Tire pressure	7-125
Fan belt	7-126
Cab suspension, if equipped	7-130
Remote valve collection bottle	7-131
Emergency brake lever	7-132
Engine auxiliary fuel filter	7-133
Cab fabric and carpet	7-135
Seat belt	7-135

STORAGE

Tractor storage	7-136
Removal from storage	7-137

ELECTRICAL SYSTEM

Radio or audio system	7-138
Battery removal and installation	7-139
Auxiliary battery connections	7-141
Head light - Replace	7-142
Flood and work light	7-145
Fender tail light and warning light	7-147
Roof front warning and work light	7-149
Rear roof warning light	7-152
High intensity work light	7-154
Side turn indicator light	7-156
Rotating beacon light	7-158
Number plate light	7-159
Interior light - Replace	7-160

8 TROUBLESHOOTING

ALARM(S)

Display warnings overview	8-1
Display warnings - Level 1	8-2
Display warnings - Level 2	8-5
Display warnings - Level 3	8-8
Display warnings - Level 4	8-10

SYMPTOM(S)

Engine symptoms	8-12
Transmission symptoms.....	8-14
Hydraulic symptoms	8-15
Hitch symptoms	8-16
Brake symptoms.....	8-17
Cab environment symptoms.....	8-18
Electrical power system symptoms.....	8-19

9 SPECIFICATIONS

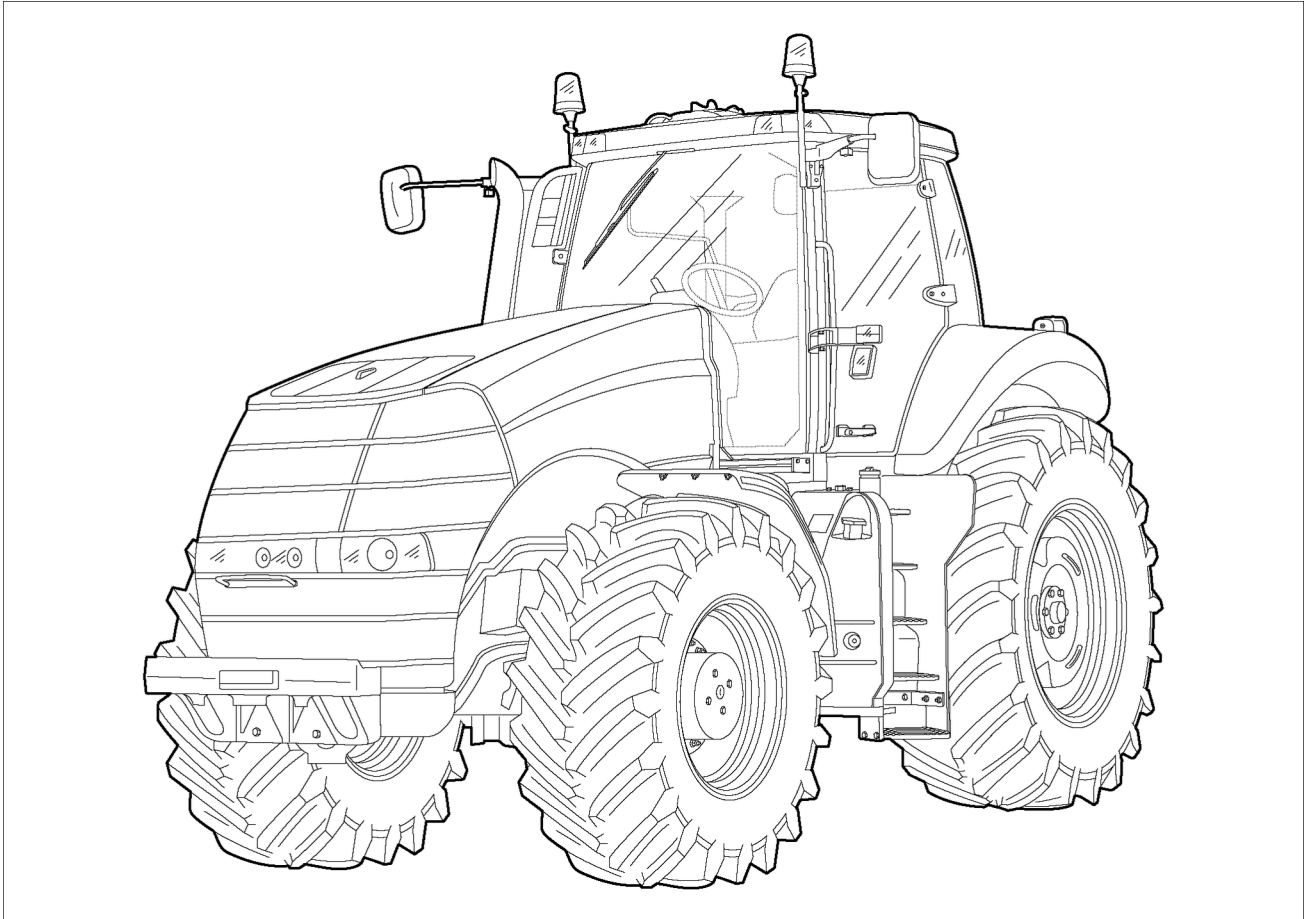
Engine specifications	9-1
Power train specifications	9-2
Operating speeds.....	9-5
Vehicle dimensions and shipping weight	9-12
Maximum operating weight.....	9-15

10 ACCESSORIES

Front wheel fenders	10-1
Farming system displays	10-7
Chemical tank mounting.....	10-8
Loader connection and operation	10-10
Trailer brake connections.....	10-11
General accessories.....	10-14

1 - GENERAL INFORMATION

Your tractor



RCPH11CCH001GAA 1



CNH America LLC
Racine, WI
U.S.A.

Dealer stamp

Clause of 2006/42/EC Annex II	EC Declaration of conformity According to Directive 2006/42/EC.	[1]  CNH America LLC Racine WI 53404 (U.S.A.)
1.A.1	We, [1]	[2] CASE IH.....
1.A.2	Represented by Giuseppe Gavioli, CNH Europe Holding S.A. 13, Rue Aldringen L-1118 Luxembourg	[3] [4] [5]
1.A.3	declare under our sole responsibility, that the product: Agricultural tractor Trade Name: [2] Model: [3] Type: [4] Serial Number: [5]	
1.A.4	to which this declaration relates, fulfils all the relevant provisions of the Directive 2006/42/EC, amended by [6].	[6]
1.A.7	For the relevant implementation of the provisions of the Directive, the following (harmonised) standards have been applied: • ISO 26322-1 part 1 or 2 Other standards: see Operators Manual.	
1.A.9	Place and date of the declaration: [7]	[7] Luxembourg.....
1.A.10	Name and signature of the authorised person: [8]	[8]  Giuseppe Gavioli

RCIL09CCH801HAA 2

The original text of the declaration is reproduced here with some notes to assist your understanding. The health and safety related standards which apply to your vehicle are summarized below:

- Tractor safety is compliant with ISO 26322-1.
- The cab ROPS (rollover protection system) is certified to EN 15694.
- The cab FOPS (falling object protection system) is certified to OECD code 10.

- Cab is certified category 2 according to EN 15695-1.
- Noise emission levels are rated according to 77/311/EEC and 74/151/EEC.

NOTE: Refer to the relevant sections in chapter 2 for additional information.

Tractor intended use

Magnum series tractors with standard equipment and authorized attachments, are intended to be used for customary farming, land leveling and related agriculture operations (intended use). Installation of utility (dozer) blades, tile plows, 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.

Consult an authorized dealer or CNH America LLC on changes, additions or modifications that can be required for this machine to comply with various regulations and safety requirements. Unauthorized modifications will cause serious injury or death. Anyone making such unauthorized modifications is responsible for the consequences.

The tractor is not designed for light/heavy forestry applications; usage is prohibited for forestry applications.

Do not use this machine for any purpose or in any manner other than as described in the manual, decals, or other product safety information provided with the machine. These materials define the machine's intended use.

Use in any other way is considered as contrary to the intended use. The manufacture accepts no liability for any damage or injury resulting from this misuse and these risks must be born solely by the user.

Engine and its systems

The fuel system, exhaust after-treatment system, and engine on your machine are designed and built to government emissions standards. Tampering by dealers, customers, operators, and users is strictly prohibited by law.

Failure to comply could result in government fines, rework charges, invalid warranty, legal action, and possible confiscation of the machine until rework to original condition is completed. Engine service and/or repairs must be done by a certified technician only!

Electro-magnetic compatibility (EMC)

This machine complies strictly with the European Regulations on electro-magnetic emissions. However, interference may arise as a result of add-on equipment which may not necessarily meet the required standards. As such interference can result in serious malfunction of the unit and/or create unsafe situations, you must observe the following:

- Ensure that each piece of non- CASE IH AGRICULTURE equipment fitted to the machine bears the CE mark.
- The maximum power of emission equipment (radio, telephones, etc.) must not exceed the limits imposed by the national authorities of the country where you use the machine.
- The electro-magnetic field generated by the add-on system should not exceed **24 V/m** at any time and at any location in the proximity of electronic components.

Failure to comply with these rules will render the CASE IH AGRICULTURE warranty null and void.

Manual scope and required training level

This manual provides information on the intended use of your tractor under the conditions foreseen by the manufacturer during normal operation, routine service and maintenance and periodic service and maintenance.

Normal operation is use of the tractor for the purpose intended by the manufacturer by an owner/operator who is familiar with the tractor and the mounted or towed equipment, and who is complying with the information on operation and safe practices, provided in this manual and by the decals on the tractor and the equipment.

Normal operation includes such actions as preparing the tractor for storage and removing the tractor from storage, adding or removing ballast, connecting and disconnecting mounted or towed equipment, raising and lowering components into or out of work position, adjusting tractor settings for specific field or crop settings, etc.

Routine service and maintenance are those actions which must be performed daily to maintain proper tractor function by an owner/operator who is familiar with tractor characteristics, and who is complying with the information on routine service and safe practices in this manual and in the decals on the tractor.

Routine service and maintenance includes such actions as fueling, cleaning, washing, topping off fluid levels, greasing, and replacing consumable articles such as lamp bulbs.

Periodic service and maintenance are those actions which must be performed at regularly defined intervals to maintain proper tractor function by an owner/operator who is familiar with tractor characteristics, and who is complying with the information on periodic service and

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