Magnum 180
Magnum 200
Magnum 220
Magnum 240
Tractor

PIN ZERH02500 and above

OPERATOR'S MANUAL



Contents

1	GENERAL INFORMATION	
	Note to the Owner	
	Engine tampering	
	Tractor intended use	1-2
	Electro-Magnetic Compatibility (EMC)	
	Product identification	
	Machine orientation	
	Component identification	
	Selective Catalytic Reduction (SCR) system	
	Colocuro Cataly to reduction (Corty System	
_	OAFETY INFORMATION	
2	SAFETY INFORMATION	0.4
	Safety rules and signal word definitions	
	Safety rules - General	
	Safety rules - General maintenance safety	
	Safety rules - Wheels and tires	
	Safety rules - Driving on public roads and general transportation safety	
	Safety rules - Fire and explosion prevention	
	Safety rules - General battery safety	
	Safety rules - Instructional seat safety	
	Safety rules - Operator presence system	
	Safety rules - Power Take-Off (PTO)	
	Safety rules - Reflectors and warning lights	
	Safety rules - Seat belts	
	Safety rules - Roll Over Protective Structure (ROPS)	
	Safety rules - Cab protection	
	Safety rules - Air conditioning system	
	Safety rules - Personal Protective Equipment (PPE)	
	Safety rules - Do Not Operate tag	
	Safety rules - Hazardous chemicals	
	Safety rules - Utility safety	
	Safety rules - Electrical storm safety	
	Safety rules - Mounting and dismounting	
	Safety rules - Working at heights	
	Safety rules - Lifting and overhead loads	
	Safety rules - Implements, tools and trailers	
	Safety rules - Roll over and tip over	
	Proposition 65	
	Ecology and the environment	
	Safety signs	
	Selective Catalytic Reduction (SCR) decal	2-21
3	CONTROLS AND INSTRUMENTS	
	ACCESS TO OPERATOR'S PLATFORM	
	Tractor access	3-1

Lower step	3-3
OPERATOR'S SEAT Control identification	2.4
Control identification	3-4
INSTRUCTOR'S SEAT Overview	3-8
FORWARD CONTROLS Steering column	3-9
Front console	
Pedal controls	
LEET LIAND OIDE CONTROL O	
LEFT-HAND SIDE CONTROLS Manual backup brake	3-17
	•
RIGHT-HAND SIDE CONTROLS	
Armrest console	
Multi function handle	
Minimum/maximum throttles	
Control panel	
Remote valve controls	
Joystick	
Armrest compartment	
Adjusting the armrest console	ა-აი
REARWARD CONTROLS	
Fender console	3-39
Automatic temperature controls	3-42
Automatic temperature control system	3-45
Ventilation	3-46
OVERHEAD CONTROLS	
Interior lamps	3-48
EXTERIOR CONTROLS Rear fender	2 40
ixeal leffuel	3-43
INSTRUMENT CLUSTER	
Overview	
Gauges	
Status and warning icons	
Upper display	
Lower display	
Keypad	
Adjust and configure menus	
Rear tire radius chart	3-65

Performance features	3-66
4 OPERATING INSTRUCTIONS	
COMMISSIONING THE UNIT	
Before starting the engine	4-1
STARTING THE UNIT	
Normal engine starting	4-4
Cold starting aids	
Cold temperature operation	
STOPPING THE UNIT	
Stopping the engine	4-9
Stopping the engine	4-3
NAON (INTO THE LIBIT	
MOVING THE UNIT	4 44
FULL POWERSHIFT TRANSMISSION	
Inching pedal and throttle	
Transmission controls	
Upper display	
Manual transmission operation	
Automatic Productivity Management (APM)	
Automatic Productivity Management (APM) field	
Automatic Productivity Management (APM) road	
Shuttle memory	
Transmission errors and calibration	
Creeper gears	4-20
Continuously Variable Transmission (CVT) brake, pedal and throttle operation	4-21 1 27
Continuously Variable Transmission (CVT) brake, pedal and throttle operation	
Continuously Variable Transmission (CVT) controls	
Continuously Variable Transmission (CVT) display	
Continuously Variable Transmission (CVT) speed matching	
Continuously Variable Transmission (CVT) error codes	
POWERSHIFT AND CVT TRANSMISSIONS	
Selective Catalytic Reduction (SCR) system	
Mechanical Front Drive (MFD)	
Differential lock system	
Suspended axle	
Cab suspension, if equipped	
Engine power management	
Ride control	
Electronic end of row system	
∟ı∪uı∪ılı∪ GIIU UI IUW 3Y3LGIII	

	PARKING THE UNIT Electronic Park Lock (EPL) and manual backup brake	4-71
5	TRANSPORT OPERATIONS	
	ROAD TRANSPORT Tractor warning lamps and Slow Moving Vehicle (SMV) symbol Wide transport marker light Tractor warning lamps Safe transport speed Implement warning lamps and Slow Moving Vehicle (SMV) symbol Safety chain	. 5-3 . 5-5 . 5-6 . 5-7
	SHIPPING TRANSPORT Securing the tractor for shipping	. 5-8
	RECOVERY TRANSPORT Safety rules	. 5-9
6	WORKING OPERATIONS	
	GENERAL INFORMATION Before operating the vehicle. Guidelines REAR POWER TAKE-OFF (PTO)	
	Safety rules	. 6-3
	Connecting the Power Take-Off (PTO)	. 6-5
	Power Take-Off (PTO) operation	
	Two speed Power Take-Off (PTO) systems	
	Power Take-Off (PTO) fender switch operation	
	THREE-POINT HITCH Connecting three-point hitch implements. Three-point hitch adjustments. Hitch quick coupler - Category III/IIIN.	6-15
	Hitch controls and settings	
	Draft control	6-31
	DRAWBARS AND TOWING ATTACHMENTS	
	Safety rules	
	Adjusting the drawbar	6-37

HYDRAULIC TRAILER BRAKES Trailer brake connections	40
AUXILIARY CONNECTIONS Auxiliary power and lighting 6- Cab power connections 6- Radar connection 6- Implement ISOBUS connector 6-	-43 -45
HYDRAULIC REMOTE CONTROL VALVES Valve couplers and connections 6- Transport lock 6- Operating the controls 6- Remote valve display screens 6- Joystick operation 6-	-53 -54 -59
BALLASTING THE TRACTOR Guidelines 6- Tire load and inflation charts 6- Weights, cast metal 6- Wheel slip and power hop performance 6-	-75 -83
MECHANICAL FRONT DRIVE (MFD) AXLES Tire combinations and tread positions	-98 -99 01 06 .75 115 les
REAR AXLE Rear wheel installation	30
MAINTENANCE GENERAL INFORMATION Safety rules	7-1 7-2

Closing the hood	7-5
Filling the fuel tank	7-7
Filling the Diesel Exhaust Fluid (DEF)/AdBlue® tank	7-9
Battery access and service	
Tire and rim service	7-12
Tractor jacking points	
Capacities	
Consumables - Engine oil	
Consumables - Front axle oil	7-18
Consumables - Transmission/hydraulic system	
Consumables - Diesel fuel	
Consumables - Diesel Exhaust Fluid (DEF)/AdBlue®	7-19 7-21
Consumables - Coolant solutions	
Electrical system - Component identification	7-24
MAINTENANCE CHART	
Maintenance Chart	7-30
At warning message display	
Air filter service icon/message	7-32
Fuel filter water separator	
Hydraulic oil filter	
Every 10 hours or daily	
	7 20
Engine coolant level	
Engine oil level	
Willustileid wastier lidid level	. 7-40
First 50 hours	7 44
Dealer performed service	7-41
Every 50 hours	
Coolers and condenser	7-42
Cab air filter	
Grease fittings	
Wheel bolt torque	
Tire pressure	7-52
Every 300 hours	
Fan belt	
Transmission oil level	
Manual backup brake	
Mechanical Front Drive (MFD) gearbox - Class 4.75 suspended axle only	/-56

Every 600 hours	
Engine oil and filter	7-57
Diesel Exhaust Fluid (DEF)/AdBlue® in-line filter	
Hydraulic filter(s)	
Engine primary air filter	
Engine air intake hoses	
Fuel filters	
Differential and planetary oil	7-71
Every 1200 hours or appually	
Every 1200 hours or annually	7 70
Cab air filter	
Rear axle bearing	
Transmission oil	
Differential and planetary oil	
Mechanical Front Drive (MFD) gearbox - Class 4.75 suspended axle only	
Battery terminals	
Blowby filter	
Every 1200 beure or two years	
Every 1200 hours or two years	- 00
Engine secondary air filter	
Engine valve adjustment (Note C)	7-95
Every 3600 hours	
Diesel Exhaust Fluid (DEF)/AdBlue® supply module filter	7-96
Every 36 months	
Air conditioning system	7_00
All conditioning system	1-33
Every 4000 hours or every four years	
Engine coolant	7-100
As required	
Pre-filter and water trap - if equipped	7-103
Fuel tank vent filter	
Diesel Exhaust Fluid (DEF)/AdBlue® tank	7-106
Fan belt	
Remote valve collection bottle	
Cab fabric and carpet	
Tractor exterior	
Ocat Doll	1-110
STORAGE	
Preparing for storage	7-116
Removing from storage	
0 0 0	

	Electrical system	
	Radio or audio system	7-119
	Battery removal and installation	
	Recharging the battery	7-122
	Headlight	7-123
	Rear work light	7-124
	Fender tail light and warning light	7-124
	Roof front warning and work light	
	Rear roof warning light	
	High intensity work light	
	Wide transport marker light	
	Rotating beacon light	
	Interior light	7-130
8 -	TROUBLESHOOTING	
	ALARM(S)	
	Display warnings	8-1
	Automatic engine shutdown	
	Fault reporting	
	SYMPTOM(S)	
	Engine symptoms	8-10
	Transmission symptoms	
	Hydraulic symptoms	
	Hitch symptoms	
	Brake symptoms	8-15
	Cab environment symptoms	
	Electrical power system symptoms	8-17
0.6	SPECIFICATIONS	
9 (Engine - General specification	Q_1
	Transmission - General specification	
	Operating speeds	
	Vehicle dimensions and shipping weight	
	Maximum operating weight	
10	ACCESSORIES	
_	Farming system displays	10-1
	Chemical tank mounting	
	Loader connection and operation	
	General accessories	10-6

First se	MS AND DE	opy	 	11-1 11-3
1 1131 30	or vice dealer cop	y		

1 - GENERAL INFORMATION

Note to the Owner

This manual contains important information about the safe operation, adjustment and routine maintenance of your Magnum series tractor. The manual is divided into 10 chapters as outlined in the table of contents. Refer to the index at the end of this manual for locating specific items about your tractor.

Do NOT operate or permit anyone to operate or service this machine until you or the other persons have read this manual. Use only trained operators who have demonstrated the ability to operate and service this machine correctly and safely.

This Operator's Manual is to be stored in the manual compartment behind the operator's seat in the vehicle. Make

sure this manual is in good condition. Contact your dealer to obtain additional manuals.

Your CASE IH dealer will instruct you in the general operation of your new equipment. Your dealer's staff of factory-trained service technicians will be glad to answer any questions that may arise regarding the operation of your machine. They will also provide any after-sales service you may need, and genuine CASE IH parts, your guarantee of quality and match.

Case IH Max Service is also available. Call 1-877-4CASEIH (1-877-422-7344) or email maxservice.na@cnh.com.

Engine tampering

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 con-

fiscation of the machine until rework to original condition is completed. Engine service and/or repairs must be done by a certified technician only!

Tractor intended use

Magnum series tractors with standard equipment and authorized attachments, are intended to be used for customary farming, agricultural 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 Industrial 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 mak-

ing such unauthorized modifications is responsible for the consequences.

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 manufacturer accepts no liability for any damage or injury resulting from this misuse and these risks must be born solely by the user.

Electro-Magnetic Compatibility (EMC)

Interference may arise as a result of add-on equipment that 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:

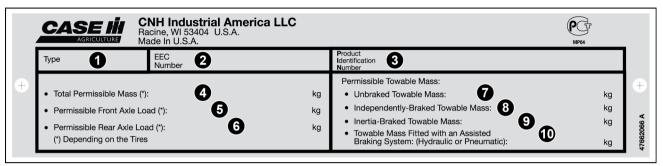
- The maximum power of emission equipment (radio, telephones, etc.) must not exceed the limits imposed by the national authorities of the country where you use the machine
- The electro-magnetic field generated by the add-on system should not exceed 24 V/m at any time and at any location in the proximity of electronic components
- The add-on equipment must not interfere with the functioning of the on board electronics

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

Product identification

Tractor model and product identification number

Write your model number, Product Identification Number (PIN) or serial number of major components on the lines provided. If needed, give these numbers to your dealer when you need parts or information for your machine.



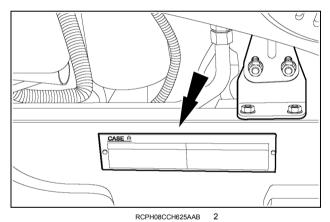
RAIL14TR00197EA

1. Type	Permissible towable mass:
2. EEC number	 7. Unbraked towable mass
3. Product Identification Number (PIN)	8. Independently brakes towable mass
4. Total permissible mass	9. Inertia braked towable mass
5. Permissible front axle load	10. Towable mass fitted with an assisted braking
6. Permissible rear axle load	system (hydraulic or pneumatic)

Model:

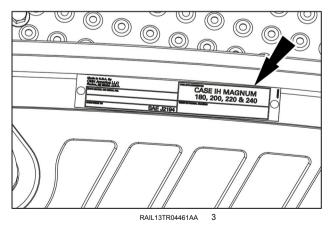
PIN

NOTE: Located on right hand front frame casting.



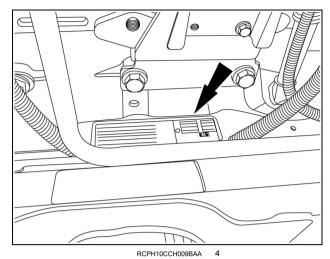
Roll Over Protection Structure (ROPS) serial number

NOTE: Located on the right hand cab floor.



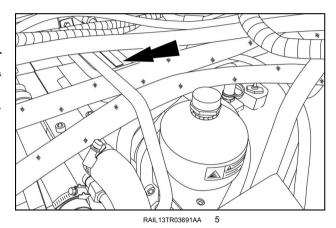
Engine serial number

NOTE: Located on the right hand side of the engine on the casting. A serial number decal is also located on the top of the valve cover.



Transmission serial number

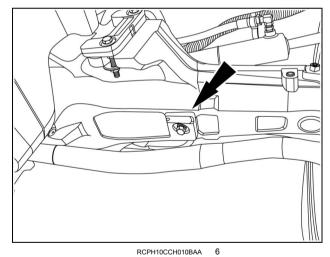
NOTE: Located on the right hand side of the Powershift transmission behind and to the left of the battery carrier. Located on the top of the Continuously Variable Transmission (CVT) housing, parallel to the accumulator (shown).



Axle serial number

Class 4.0 fixed front axle: Located on the front right hand side of the axle housing (shown).

Class 4.75 saddle suspended front axle: Located on the rear left hand side of the axle housing (not shown).





Our support email: ebooklibonline@outlook.com