#### **ORIGINAL INSTRUCTIONS**

Rowtrac<sup>™</sup> 450
Rowtrac<sup>™</sup> 500
Rowtrac<sup>™</sup> 500
Steiger<sup>®</sup> 400
Steiger<sup>®</sup> 450
Steiger<sup>®</sup> 500
Steiger<sup>®</sup> 550
Steiger<sup>®</sup> 600
Quadtrac<sup>®</sup> 450
Quadtrac<sup>®</sup> 550
Quadtrac<sup>®</sup> 550
Tier 2
Tractor

PIN ZHF307100 and above

**OPERATOR'S MANUAL** 



# Contents

1 GENERAL INFORMATION  Note to the owner	1_1
Intended use	
CNH Industrial America LLC technical manuals Your tractor	
Electro-Magnetic Compatibility (EMC)	
Product identification	
Operator's manual storage on the machine	
Machine orientation	
p	
2 SAFETY INFORMATION	
Safety alert symbol and signal word definition	
Safety rules	
Protective structures Emergency exit	
Articulation cylinder locking blocks	
Safety signs	
3 CONTROLS AND INSTRUMENTS	
Access to operator's platform	
Cab access/exit	3-1
OPERATOR'S SEAT	
Overview	3-3
Control identification	3-4
INSTRUCTOR'S SEAT	
Overview	3-7
Overview	······································
FORWARD CONTROLS	
Steering column controls	3-9
Front console controls	
Pedal controls	
Front sun shade	
RIGHT-HAND SIDE CONTROLS	2.47
Armrest console	
Control panel	
Remote valve controls	
Joystick	
Armrest compartment	
Adjusting the armiest console	

REARWARD CON Rear sun shade	TROLS	3-33
Automatic Temperatu Automatic Temperatu Center panel controls Radio (if equipped) Interior and access lig	TROLS re Control (ATC) re Control (ATC) operation ghts	3-36 3-40 3-42 3-46 3-47
Outside extendable m	nirrors	
Gauges	ons	3-50 3-51 3-54 3-55 3-57 3-58 3-65
4 OPERATING INSTR		
COMMISSIONING Before starting the en	THE UNIT	. 4-1
	NIT og eration	
STOPPING THE U Stopping the machine	JNIT e and the engine	4-9
Electronic steering sy Automatic Productivity Differential lock system Power management . Constant engine spee	IT on vstem y Management (APM™) m ed	4-18 4-19 4-29 4-33 4-34

	Engine compression brake (if equipped)	4-46
5	TRANSPORT OPERATIONS	
J		
	ROAD TRANSPORT	- 4
	Tractor warning lamps	
	Operating the tractor warning lamps	
	Implement warning lamps and Slow Moving Vehicle (SMV) symbol	
	Safety chain	
	Calcity chain	
	CLUDDING TRANSPORT	
	SHIPPING TRANSPORT Securing the tractor for shipping	5.6
	Securing the tractor for shipping	. 5-0
	RECOVERY TRANSPORT	
	Safety rules	
	Towing the tractor	. 5-6
_		
6	WORKING OPERATIONS	
	GENERAL INFORMATION	
	Product overview	. 6-1
	REAR POWER TAKE-OFF (PTO)	
	Power Take-Off (PTO) safety rules	. 6-2
	Connecting the Power Take-Off (PTO)	
	Power Take-Off (PTO) operation	
	THREE-POINT HITCH	
	Identification	. 6-8
	Link adjustment	
	Sway block adjustment	
	Mechanical float adjustment	
	Hitch quick coupler - Category IVN	
	Transport lock	
	Hitch operation	
	Rear remote hitch switch	
	Slip control operation	
	DRAWBARS AND TOWING ATTACHMENTS	
	Safety rules	6-27
	Drawbar capacities	
	Scraper operation	
	·	
	TRAILER BRAKE COUPLER	
	Safety rules	6-33
		5 55

Trailer brake connections	6-33
AUXILIARY POWER CONNECTIONS	
External power and lighting connections	6-34
Cab power connections	
HYDRAULIC REMOTE CONTROL VALVES	0.00
Valve couplers and connections	
Optional circuits	
Hydraulic remote valve transport lock	
Right-hand armrest controls	
Operating the lever controls	
Operating the Joystick control	
Remote valve display screens	
Auto auxiliary mode operation	
Auto depth control operation	6-64
BALLASTING THE TRACTOR	
Guidelines	6 67
Weights, cast metal and liquid	6-71
Wheel slip	
<b>1111001 011</b>	
FRONT AND REAR AXLE	
Tire safety	6-79
Pressure and load ratings	
Wheel installation	
Wheel tread settings	
Pre-conditioning rubber tracks	6-102
7 MAINTENANCE	
GENERAL INFORMATION	
Advice	7-1
Engine hood	
Engine side shields	
Opening the right-hand service door	
Battery access	
Power cut-off switch	
Filling the fuel tank	
Fuel tank capacity	
Tire and rim service	
Tractor jacking points	7-13
Lubricants and capacities	7-15
Engine oils	7-16
General specification - Diesel fuel	7-17
General specification - Biodiesel fuels	7-18
Organic Acid Technology (OAT) coolant	7-20
Electrical specifications	7-21

Battery system	7-22
Auxiliary battery connections	7-24
Maintenance chart notes	7-26
MAINTENANCE CHART	
Maintenance chart	7_27
	1 21
At warning message display	
Air cleaner	7-29
Primary fuel filter	
Fuel supply restricted (13L engines only)	7-30
Every 10 hours or daily	
Engine oil level	7-31
Wheel bolt torque	
Weight bolt torque	
Transmission oil level	
Hydraulic and axle oil level	
Engine coolant level	
Fuel level	
General tractor inspection	
Every 50 hours	
Fuel tank and fuel filter	7-37
Articulation hinge - Upper front	
Oscillation hinge - Rear	
Articulation hinge - Lower	
Articulation cylinder - Front, left hand, right hand	7-40
Articulation cylinder - Rear, left hand and right hand	
Hitch cylinder pin - Upper (if equipped)	
Hitch cylinder pin - Lower (if equipped)	
Hitch rockshaft - Left-hand and right hand	
Hitch lift links and top link	
Driveshaft carrier bearing.	
Bivosiiait sainisi seariilg	
First 100 hours	
Powershift transmission clutches	7_43
1 Owershift transmission dutches	1-45
Every 600 bours	
Every 600 hours	- 40
Engine oil and filter (see Note 3)	
Engine fuel filter (see Note 4)	
Engine fuel pre-filter	
Fuel tank vent (see Note 6)	
Battery electrolyte level	
Cab air filter, outside (see Note 1)	
Air tubing - Engine	
Alternator - Water pump belt	7-61

Power Take Off (PTO) carrier bearing	7-62
Power Take Off (PTO) slip joint	
Radiator and coolers	
Saddle tanks	7-65
Cab recirculation filter	7-65
Every 1000 hours or yearly	
Powershift transmission clutches	7-66
Every 1200 hours	
	7.67
Engine crankcase breather filter	
Transmission oil and filter (see Note 4)	
Transmission vent Engine air filters (see Note 2)	
Door lock and hinges	
Door lock and minges	
Every 1800 hours	
Hydraulic oil and filters (see note 4)	
Hydraulic reservoir breather	7-80
Cab air filter, outside (see Note 1)	
Engine air tubing	7-82
Every 2400 hours	
Engine coolant drain and flush	7-83
Idler and roller wheel oil (see Note 5)	
As required	
As required	7.07
Vehicle fire prevention	7-87
Remote valve couplers	
Pressure cooling system hoses	
Hydraulic system hoses	
Tire pressure	
Engine fan belt	
Viscous fan drive	
Track inspection and bolt torque	
Track tension release  Track alignment	
Cab fabric and carpet	
Seat belt	
Battery removal and installation	
Hood lamps	
Flood and work lamps	
Fender tail light and warning light	
Roof warning light	
Rotating beacon light	
Interior lights	

Fuse and relay locations  Fuse and relay locations	7-115
STORAGE Placing in storage	7-123
Removing from storage	
8 TROUBLESHOOTING	
FAULT CODE RESOLUTION  Fault code retrieval	8-1
ALARM(S) Display warnings	g_3
Transmission disengages; neutral icon flashes	
9 SPECIFICATIONS	
Engine specifications	
Power train and hydraulics	
Lubricants and capacities	
Vehicle dimensions and shipping weight	
Maximum operating weight	
10 ACCESSORIES	
Farming system displays	
Chemical tank mounting	
General accessories	

### 1 - GENERAL INFORMATION

#### Note to the owner

This manual contains important information about the safe operation, adjustment, and routine maintenance of your tractor. The manual is divided into ten chapters as outlined on the Contents page. 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.

Store this operator's manual 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. Contact your dealer for any further information or assistance about your machine. Your dealer has approved service parts. Your dealer has technicians with special training that know the best methods of repair and maintenance for your tractor.

ATTENTION: The engine and fuel system on your machine is 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 complete. Engine service and/or repairs must be done by a certified technician only!

#### Intended use

Steiger®, Quadtrac®, and Rowtrac™ series tractors with standard equipment and authorized attachments, are intended to be used for customary farming, land leveling and related agriculture operations (intended use). This tractor is not intended for forestry use or for use with loaders. The cab on this tractor does not offer sufficient protection for forestry work.

Installation of utility (dozer) blades, tile plows, front loaders or push bars on the tractor is not approved. 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 making 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 manufacture accepts no liability for

any damage or injury resulting from this misuse and these risks must be born solely by the user.

Compliance with and strict adherence to the conditions of operation, service and repair as specified by the manufacturer also constitute essential elements for the intended use.

All persons who will be operating this machine shall possess a valid local vehicle operating permit and/or other applicable local age work permits.

This tractor must be operated, serviced and repaired only by persons familiar with all its particular characteristics and acquainted with the relevant safety rules (accident prevention).

The accident prevention regulations, all other generally recognized regulations on safety and occupational medicine and the road traffic regulations must be observed at all times.

Any arbitrary modifications carried out on the tractor will relieve the manufacturer of all liability for any resulting damage or injury.

#### CNH Industrial America LLC technical manuals

Manuals are available from your dealer for your machine. Your dealer can expedite your order for operator manuals and parts catalogs.

Always give the machine name, model and Product Identification Number (PIN) of your machine so your dealer can provide the correct manuals for your machine.

The company is continually striving to improve its products and therefore reserves the right to make improvements and changes when it becomes practical and possible to do so, without incurring any obligation to make changes or additions to the equipment sold previously. All data given in this manual is subject to production variations.

**NOTICE:** Operating and service messages displayed on the electronic operating panel may vary from what is shown in the manual. If this occurs, heed the latest instructions on the electronic operating panel.

Dimensions and weights are approximate only and the illustrations do not necessarily show the machine in standard condition. For exact information about any particular machine, please consult your dealer.

#### 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 safe practices in this manual and in the decals on the tractor.

Periodic service and maintenance includes such actions as checking, cleaning and changing air filters, changing engine oil and filters, changing transmission oil and filters, changing front axle and wheel hub fluids, changing coolant, etc.

Some actions in the periodic service and maintenance chart are beyond the knowledge and skills of the owner/operator: for example, engine valve adjustment, fuel injector nozzles. For these actions, the manual instructs the owner/operator to have the action performed by their authorized dealer.

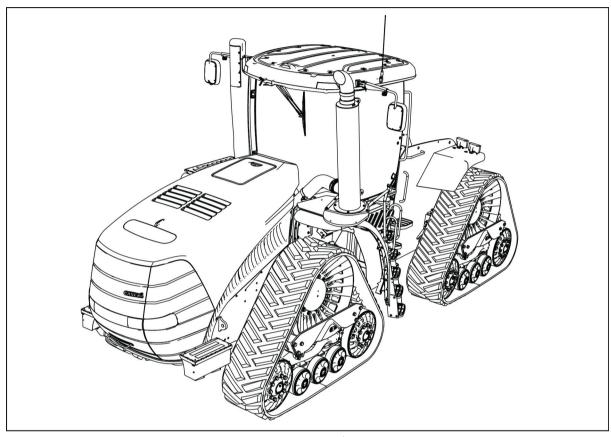
This manual does not contain all the information related to periodical service and maintenance, converting and repairs to be carried out by professional service personnel. These actions require special facilities, technical skills, and/or tools which are not supplied with the machine.

Converting is changing the tractor configuration for a specific crop or soil condition and requires rebuilding or adding components to the vehicle: for example, installation of dual wheels. Repairing is the disassembly and assembly of the tractor to restore proper operation after a component failure or degradation of performance.

## Your tractor

This manual covers the **Steiger**® 400, 450, 500, 550, 600, **Rowtrac**™ 400, 450, 500, and **Quadtrac**® 450, 500, 550, 600 models.

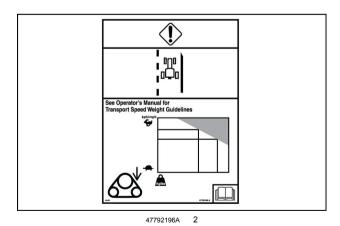
References are made within this manual of "row crop models" and "high power models". Row crop models include **Steiger**® 400, 450, and all **Rowtrac™** models. High power models include **Steiger**® 500, 550, 600 and all **Quadtrac**® models.

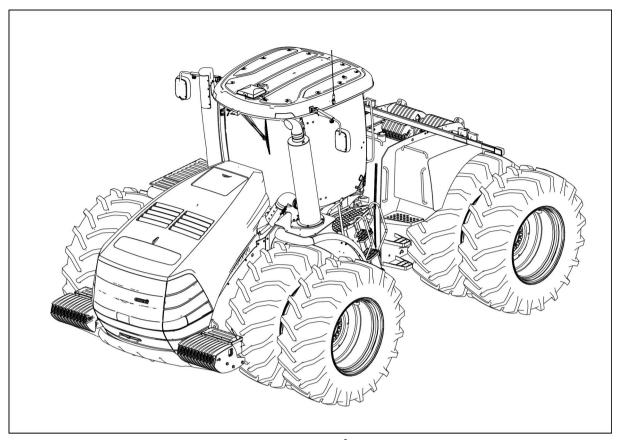


RAIL13TR04795FA 1

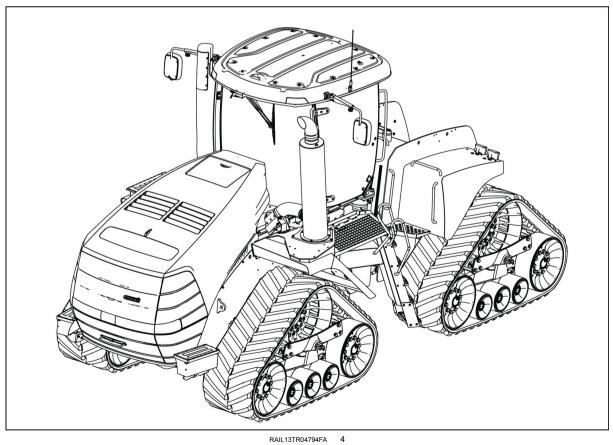
Rowtrac<sup>TM</sup> models

On **Rowtrac™** models, refer to information starting on page **9-8** for transport speed weight guidelines.





RAIL13TR04793FA 3
Steiger® models



Quadtrac® models

# 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:

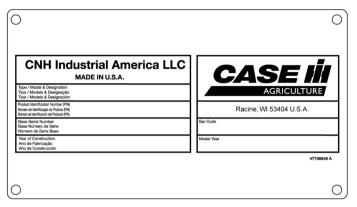
- The maximum power of emission equipment (radio, telephones, etc.) must not exceed the limits imposed by the national authorities of the country where you use the machine
- The electro-magnetic field generated by the add-on system should not exceed **24 V/m** at any time and at any location in the proximity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

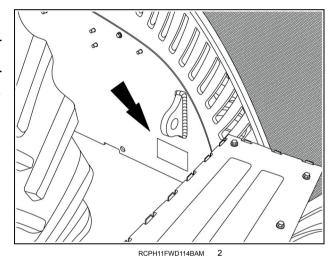


RAIL14TR02261EA 1

Model:

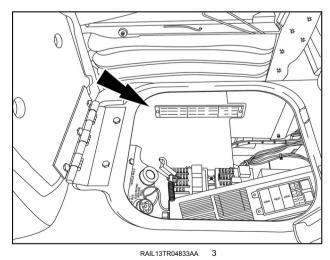
PIN:

**NOTE:** Located on the front right-hand side plate in front of front axle.



# Roll Over Protective Structure (ROPS) serial number

NOTE: Located under the instructional seat.





Our support email: ebooklibonline@outlook.com