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Multi-Controller Tractors

Efficient Power

OPERATOR'S MANUAL

Part Number 84484476

1st edition English

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

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EVERY 10 HOURS OR EACH DAY

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EVERY 100 HOURS

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EVERY 300 HOURS

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EVERY 600 HOURS

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EVERY 1200 HOURS OR ANNUALLY

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EVERY 1200 HOURS OR EVERY 2 YEARS

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EVERY 3600 HOURS OR EVERY 2 YEARS

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EVERY 36 MONTHS

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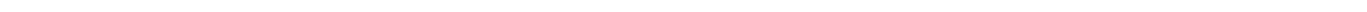
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1 - GENERAL INFORMATION

CE DECLARATION OF CONFORMITY

Class of 2006/42/EC Annex II	RO	CZ	DA	DE	EL
1.A.1	Declarația CE în conformitate cu Directiva 2006/42/CE	Prohlášení o shodě ES podle směrnice 2006/42/ES	EU-overensstemmelseserklæring i henhold til direktivet 2006/42/EF	EG-Konformitätserklärung laut Richtlinie 2006/42/EG	Αξιωματική Έπισημόσηση ΕΚ σύμφωνα με την Οδηγία 2006/42/ΕΚ
1.A.2	Reprezentat de către Gruparea Garelvi, CNH Europe Holding S.A., 13, Rue Aldringen, L-1118 Luxembourg	Zastupitelství společnosti Garelvi, CNH Europe Holding S.A., 13, Rue Aldringen, L-1118 Luxembourg	repræsentant af Garelvi, CNH Europe Holding S.A., 13, Rue Aldringen, L-1118 Luxembourg	vertreten durch Garelvi, CNH Europe Holding S.A., 13, Rue Aldringen, L-1118 Luxembourg	αποστολογράφους από την Garelvi, CNH Europe Holding S.A., 13, Rue Aldringen, L-1118 Luxembourg
1.A.3	Declarația este în conformitate cu cerințele Directivei 2006/42/CE, în ceea ce privește: Modelul [1] Tipul [4] Seria [5]	Prohlášení je v souladu s požadavky směrnice 2006/42/ES, zejména vzhledem k: Zemědělský traktor [1] Model [1] Typ [4] Výrobní číslo [5]	erklæring på eget ansvar af produktet Landbrugstraktor [1] Model [1] Type [4] Serienummer [5]	erklären auf meine allehögste Verantwortung, dass das Produkt Landwirtschafliche Zugmaschine [1] Modell [1] Typ [4] Serienummer [5]	δηλώνω, υπό αποκλειστική μου ευθύνη, ότι το προϊόν: Γεωργικός Ελασμοφόρος [1] Μοντέλο [1] Μοναδικό [4] Σειρά [5]
1.A.4	La data la care s-a realizat declarația, eu, persoana responsabilă, mă angajez să respectez toate dispozițiile Directivei 2006/42/CE, în ceea ce privește: Modelul [1] Tipul [4] Seria [5]	Pro realizarea acestei declarații, mă angajez să respectez toate dispozițiile Directivei 2006/42/CE, în ceea ce privește: Modelul [1] Tipul [4] Seria [5]	Følgelig erklærer jeg, at jeg vil overholde alle bestemmelser i direktivet 2006/42/EF, især de bestemmelser om: Model [1] Type [4] Serienummer [5]	Zur abgabe dieser Erklärung beehde, allen einschlägigen Bestimmungen der Richtlinie 2006/42/EG entsprechen, insbesondere durch: [1] [4] [5]	Παρά το γεγονός ότι η παρούσα δήλωση εκδίδεται, εγώ, ο υπεύθυνος για τη διασφάλιση της συμμόρφωσης με την Οδηγία 2006/42/ΕΚ, ομολογώ ότι θα τηρήσω όλες τις απαιτήσεις που ορίζει η Οδηγία 2006/42/ΕΚ, ειδικά τις που αφορούν: Μοντέλο [1] Τύπος [4] Σειρά [5]
1.A.7	ISO 26322-1 part 1 and 2	ISO 26322-1 parte 1 și 2	ISO 26322-1 del 1 og del 2	ISO 26322-1 del 1 og del 2	EN ISO 26322-1 del 1 și 2
1.A.9	Place and date of the declaration [7]	Locul și data de la declarația [7]	Declarationssted og dato for erklæringen [7]	Ort und Datum der Erklärung [7]	Ort und Datum der Erklärung [7]
1.A.10	Name and signature of the authorized person [8]	Nume și semnătură a persoanei autorizate [8]	Navn og underskrift af den autoriserede person [8]	Name und Unterschrift des Belegten [8]	Όνομα και υπογραφή του εξουσιοδοτημένου προσώπου [8]
1.B.1	EC Declaration of Conformity According to Directive 2006/42/EC	Declarație CE de conformitate cu Directiva 2006/42/CE	EU overensstemmelseserklæring i henhold til direktivet 2006/42/EF	EG-Konformitätserklärung laut Richtlinie 2006/42/EG	Αξιωματική Έπισημόσηση ΕΚ σύμφωνα με την Οδηγία 2006/42/ΕΚ
1.B.2	Represented by Garelvi, CNH Europe Holding S.A., 13, Rue Aldringen, L-1118 Luxembourg	reprezentat de către Gruparea Garelvi, CNH Europe Holding S.A., 13, Rue Aldringen, L-1118 Luxembourg	repræsentant af Garelvi, CNH Europe Holding S.A., 13, Rue Aldringen, L-1118 Luxembourg	vertreten durch Garelvi, CNH Europe Holding S.A., 13, Rue Aldringen, L-1118 Luxembourg	αποστολογράφους από την Garelvi, CNH Europe Holding S.A., 13, Rue Aldringen, L-1118 Luxembourg
1.B.3	declared under our sole responsibility, for the product: Agricultural tractor Trade Name [2] Model [1] Type [4] Serial Number [5]	declarația este în conformitate cu cerințele Directivei 2006/42/CE, în ceea ce privește: Modelul [1] Tipul [4] Seria [5]	erklæring på eget ansvar af produktet Landbrugstraktor [1] Model [1] Type [4] Serienummer [5]	erklären auf meine allehögste Verantwortung, dass das Produkt Landwirtschafliche Zugmaschine [1] Modell [1] Typ [4] Serienummer [5]	δηλώνω, υπό αποκλειστική μου ευθύνη, ότι το προϊόν: Γεωργικός Ελασμοφόρος [1] Μοντέλο [1] Μοναδικό [4] Σειρά [5]
1.B.4	In which this declaration relates, fulfil all the relevant provisions of the Directive 2006/42/EC, amended by [6].	În care se referă la prezenta declarație, eu, persoana responsabilă, mă angajez să respectez toate dispozițiile Directivei 2006/42/CE, în ceea ce privește: Modelul [1] Tipul [4] Seria [5]	Følgelig erklærer jeg, at jeg vil overholde alle bestemmelser i direktivet 2006/42/EF, især de bestemmelser om: Model [1] Type [4] Serienummer [5]	Zur abgabe dieser Erklärung beehde, allen einschlägigen Bestimmungen der Richtlinie 2006/42/EG entsprechen, insbesondere durch: [1] [4] [5]	Παρά το γεγονός ότι η παρούσα δήλωση εκδίδεται, εγώ, ο υπεύθυνος για τη διασφάλιση της συμμόρφωσης με την Οδηγία 2006/42/ΕΚ, ομολογώ ότι θα τηρήσω όλες τις απαιτήσεις που ορίζει η Οδηγία 2006/42/ΕΚ, ειδικά τις που αφορούν: Μοντέλο [1] Τύπος [4] Σειρά [5]
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1.C.1	EU Declaration of Conformity According to Directive 2006/42/EC	Declarație CE de conformitate cu Directiva 2006/42/CE	EU overensstemmelseserklæring i henhold til direktivet 2006/42/EF	EG-Konformitätserklärung laut Richtlinie 2006/42/EG	Αξιωματική Έπισημόσηση ΕΚ σύμφωνα με την Οδηγία 2006/42/ΕΚ
1.C.2	Represented by Garelvi, CNH Europe Holding S.A., 13, Rue Aldringen, L-1118 Luxembourg	reprezentat de către Gruparea Garelvi, CNH Europe Holding S.A., 13, Rue Aldringen, L-1118 Luxembourg	repræsentant af Garelvi, CNH Europe Holding S.A., 13, Rue Aldringen, L-1118 Luxembourg	vertreten durch Garelvi, CNH Europe Holding S.A., 13, Rue Aldringen, L-1118 Luxembourg	αποστολογράφους από την Garelvi, CNH Europe Holding S.A., 13, Rue Aldringen, L-1118 Luxembourg
1.C.3	declared under our sole responsibility, for the product: Agricultural tractor Trade Name [2] Model [1] Type [4] Serial Number [5]	declarația este în conformitate cu cerințele Directivei 2006/42/CE, în ceea ce privește: Modelul [1] Tipul [4] Seria [5]	erklæring på eget ansvar af produktet Landbrugstraktor [1] Model [1] Type [4] Serienummer [5]	erklären auf meine allehögste Verantwortung, dass das Produkt Landwirtschafliche Zugmaschine [1] Modell [1] Typ [4] Serienummer [5]	δηλώνω, υπό αποκλειστική μου ευθύνη, ότι το προϊόν: Γεωργικός Ελασμοφόρος [1] Μοντέλο [1] Μοναδικό [4] Σειρά [5]
1.C.4	In which this declaration relates, fulfil all the relevant provisions of the Directive 2006/42/EC, amended by [6].	În care se referă la prezenta declarație, eu, persoana responsabilă, mă angajez să respectez toate dispozițiile Directivei 2006/42/CE, în ceea ce privește: Modelul [1] Tipul [4] Seria [5]	Følgelig erklærer jeg, at jeg vil overholde alle bestemmelser i direktivet 2006/42/EF, især de bestemmelser om: Model [1] Type [4] Serienummer [5]	Zur abgabe dieser Erklärung beehde, allen einschlägigen Bestimmungen der Richtlinie 2006/42/EG entsprechen, insbesondere durch: [1] [4] [5]	Παρά το γεγονός ότι η παρούσα δήλωση εκδίδεται, εγώ, ο υπεύθυνος για τη διασφάλιση της συμμόρφωσης με την Οδηγία 2006/42/ΕΚ, ομολογώ ότι θα τηρήσω όλες τις απαιτήσεις που ορίζει η Οδηγία 2006/42/ΕΚ, ειδικά τις που αφορούν: Μοντέλο [1] Τύπος [4] Σειρά [5]
1.C.7	ISO 26322-1 part 1 and 2	ISO 26322-1 parte 1 și 2	ISO 26322-1 del 1 og del 2	ISO 26322-1 del 1 og del 2	EN ISO 26322-1 del 1 și 2
1.C.9	Place and date of the declaration [7]	Locul și data de la declarația [7]	Declarationssted og dato for erklæringen [7]	Ort und Datum der Erklärung [7]	Ort und Datum der Erklärung [7]
1.C.10	Name and signature of the authorized person [8]	Nume și semnătură a persoanei autorizate [8]	Navn og underskrift af den autoriserede person [8]	Name und Unterschrift des Belegten [8]	Όνομα και υπογραφή του εξουσιοδοτημένου προσώπου [8]
1.D.1	EU Declaration of Conformity According to Directive 2006/42/EC	Declarație CE de conformitate cu Directiva 2006/42/CE	EU overensstemmelseserklæring i henhold til direktivet 2006/42/EF	EG-Konformitätserklärung laut Richtlinie 2006/42/EG	Αξιωματική Έπισημόσηση ΕΚ σύμφωνα με την Οδηγία 2006/42/ΕΚ
1.D.2	Represented by Garelvi, CNH Europe Holding S.A., 13, Rue Aldringen, L-1118 Luxembourg	reprezentat de către Gruparea Garelvi, CNH Europe Holding S.A., 13, Rue Aldringen, L-1118 Luxembourg	repræsentant af Garelvi, CNH Europe Holding S.A., 13, Rue Aldringen, L-1118 Luxembourg	vertreten durch Garelvi, CNH Europe Holding S.A., 13, Rue Aldringen, L-1118 Luxembourg	αποστολογράφους από την Garelvi, CNH Europe Holding S.A., 13, Rue Aldringen, L-1118 Luxembourg
1.D.3	declared under our sole responsibility, for the product: Agricultural tractor Trade Name [2] Model [1] Type [4] Serial Number [5]	declarația este în conformitate cu cerințele Directivei 2006/42/CE, în ceea ce privește: Modelul [1] Tipul [4] Seria [5]	erklæring på eget ansvar af produktet Landbrugstraktor [1] Model [1] Type [4] Serienummer [5]	erklären auf meine allehögste Verantwortung, dass das Produkt Landwirtschafliche Zugmaschine [1] Modell [1] Typ [4] Serienummer [5]	δηλώνω, υπό αποκλειστική μου ευθύνη, ότι το προϊόν: Γεωργικός Ελασμοφόρος [1] Μοντέλο [1] Μοναδικό [4] Σειρά [5]
1.D.4	In which this declaration relates, fulfil all the relevant provisions of the Directive 2006/42/EC, amended by [6].	În care se referă la prezenta declarație, eu, persoana responsabilă, mă angajez să respectez toate dispozițiile Directivei 2006/42/CE, în ceea ce privește: Modelul [1] Tipul [4] Seria [5]	Følgelig erklærer jeg, at jeg vil overholde alle bestemmelser i direktivet 2006/42/EF, især de bestemmelser om: Model [1] Type [4] Serienummer [5]	Zur abgabe dieser Erklärung beehde, allen einschlägigen Bestimmungen der Richtlinie 2006/42/EG entsprechen, insbesondere durch: [1] [4] [5]	Παρά το γεγονός ότι η παρούσα δήλωση εκδίδεται, εγώ, ο υπεύθυνος για τη διασφάλιση της συμμόρφωσης με την Οδηγία 2006/42/ΕΚ, ομολογώ ότι θα τηρήσω όλες τις απαιτήσεις που ορίζει η Οδηγία 2006/42/ΕΚ, ειδικά τις που αφορούν: Μοντέλο [1] Τύπος [4] Σειρά [5]
1.D.7	ISO 26322-1 part 1 and 2	ISO 26322-1 parte 1 și 2	ISO 26322-1 del 1 og del 2	ISO 26322-1 del 1 og del 2	EN ISO 26322-1 del 1 și 2
1.D.9	Place and date of the declaration [7]	Locul și data de la declarația [7]	Declarationssted og dato for erklæringen [7]	Ort und Datum der Erklärung [7]	Ort und Datum der Erklärung [7]
1.D.10	Name and signature of the authorized person [8]	Nume și semnătură a persoanei autorizate [8]	Navn og underskrift af den autoriserede person [8]	Name und Unterschrift des Belegten [8]	Όνομα και υπογραφή του εξουσιοδοτημένου προσώπου [8]



CNH Europe Holding S.A.
Rue Aldringen, 13
L-1118 Luxembourg
Luxembourg

Here above is provided copy of the "EC" Declaration of Conformity (EC Declaration of Conformity acc to 2006/42/EC).

The EC Declaration of Conformity is the manufacturer's declaration about equipment compliance to relevant EU provisions.

Please keep the original document in your own country language is provided on the original document.

Translation of this declaration in your own country language is provided on the original document.

For your better and easier understanding of the document you'll find original text reproduced hereafter together with some notes.

Clause of 2006/42/EC Annex II	EN EC Declaration of conformity According to Directive 2006/42/EC.
1.A.1	We, [1]
1.A.2	Represented by Guiseppe Gavioli CNH Europe Holding S.A. 13, Rue Aldringen L- 1118 Luxembourg
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]
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]
1.A.10	Name and signature of the authorised person: [8]

HEALTH AND SAFETY RELATED STANDARDS APPLIED TO YOUR TRACTOR

- ROPS PROTECTION is certified according to **EN 15694**.
- FOPS level on your tractor cab is certified according to **OECD Code 10**.
- HVAC (Heating, ventilation Air Conditioning) CAB is certified Category 1 according to **EN 15695-1**.
- HV (Heating, ventilation) cab is certified Category 1 according to **EN 15695-1**.
- NOISE EMISSION LEVELS are rated according to **77/311/EC**.
- VIBRATION LEVELS are rated according to **78/764/EEC**.

NOTE: See safety section 2 in this manual for further explanation and details on above mentioned standards and specific terminology.

METRIC AND IMPERIAL UNITS ABBREVIATIONS

Typical applications	Metric unit		Imperial unit	
	Name	Symbol	Name	Symbol
Area (Land area)				
	hectare	ha	acre	ac
	square meter	m²	square foot	ft²
	square millimeter	mm²	square inch	in²
Electricity				
	ampere	A	ampere	A
	volt	V	volt	V
	microfarad	μF	microfarad	μF
	ohm	Ω	ohm	Ω
Force				
	kilonewton	kN	pound	lb
	newton	N	pound	lb
Force per length				
	newton per meter	N/m	pound per foot	lb/ft
			pound per inch	lb/in
Frequency				
	megahertz	MHz	megahertz	MHz
	kilohertz	kHz	kilohertz	kHz
	hertz	Hz	hertz	Hz
Frequency - Rotational				
	revolution per minute	r/min	revolution per minute	r/min^a
		rpm		rpm
Length				
	kilometer	km	mile	mi
	meter	m	foot	ft
	centimeter	cm	inch	in
	millimeter	mm	inch	in
	micrometer	μm		
Mass				
	kilogram	kg	pound	lb
	gram	g	ounce	oz
	milligram	mg		
Mass per Mass				
	milligram per kilogram	mg/ kg		
Power				
	kilowatt	kW	horsepower	Hp
	watt	W	Btu per hour	Btu/hr
			Btu per minute	Btu/min
Pressure or stress (Force per area)				
	kilopascal	kPa	pound per square inch	psi
			inch of mercury	inHg
	pascal	Pa	inch of water	inH₂O
	megapascal	MPa	pound per square inch	psi

1 - GENERAL INFORMATION

Typical applications	Metric unit		Imperial unit	
	Name	Symbol	Name	Symbol
Temperature (other than Thermodynamic)				
	degrees Celsius	°C	degrees Fahrenheit	°F
Time				
	hour	h	hour	h
	minute	min	minute	min
	second	s	second	s
Torque (includes Bending moment, Moment of force, and Moment of a couple)				
	newton meter	N m	pound foot	lb ft
			pound foot	lb in
Velocity				
	kilometer per hour	km/h	mile per hour	mph
	meter per second	m/s	foot per second	ft/s
	millimeter per second	mm/s	inch per second	in/s
	meter per minute	m/min	foot per minute	ft/min
Volume (includes Capacity)				
	cubic meter	m³	cubic yard	yd³
				cu yd
	liter	l	cubic inch	in³
	liter	l	US gallon	US gal
			UK gallon	UK gal
			US quart	US qt
			UK quart	UK qt
	milliliter	ml	fluid ounce	fl oz
Volume per time (includes Discharge and Flow rate)				
	cubic meter per minute	m³/min	cubic foot per minute	ft³/min
	liter per minute	l/min	US gallon per minute	US gal/min
	milliliter per minute	ml/min	UK gallon per minute	UK gal/min
Sound power level and Sound pressure level				
	decibel	dB	decibel	dB

Glossary

Acronym	Definition
DEF	Diesel Exhaust Fluid
ISO	International Organization for Standardization
MSDS	Material Safety Data Sheet
NOx	Nitrogen Oxide
PPE	Personal Protective Equipment
SCR	Selective Catalytic Reduction
ULSD	Ultra Low Sulfur Diesel
%	Percent
<	Less than
>	Greater than

TO THE OWNER

GENERAL INFORMATION

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 authorised dealer. He has factory trained personnel, genuine manufacturers' parts and the necessary equipment to carry out all your service requirements.

The specification are provided for your information and guidance. For further information concerning your tractor and equipment, consult your authorised dealer.

All data given in this manual is subject to production variations. Dimensions and weight are approximate only. The illustrations do not necessarily show tractors in standard condition or imply that these features are available in all countries. For exact information about any particular tractor, please consult your authorised dealer.

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 on page 7-12 of this Manual, are carried out at the recommended intervals.

OPERATORS MANUAL STORAGE

The Operators Manual supplied with your tractor is an important source of information and should be stored safely.

The manual is written specifically for your tractor so it is important that you make a note of the print number and issue date which can be found on the cover. In the event the manual is lost or damaged it can be replaced with the correct version.

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.

ABOUT THIS MANUAL

This manual gives information for use of your machine, as intended and under the conditions foreseen by the manufacturer during normal operation and routine service and maintenance.

Read and understand; keep it in good condition and always safely store it in the provided pocket in the back of your seat for later easy retrieval.

This manual does not contain all the information related to periodical service, converting and repairs to be carried out by professional service personnel.

The Table of Contents page(s) are provided to have an overview of main manual's topics. A detailed alphabetic index is available at the end of this manual for locating specific items.

Normal operation

- Normal operation means the use of the tractor for the purpose intended by the manufacturer by an operator familiar with the tractor and the mounted or towed equipment and complying with the information for operation and safe practices, as specified by the manufacturer in this manual and by the decals on the tractor and the equipment.
- Normal operation includes the preparation and storage of the tractor, swinging components into work position and vice versa, adding or removing ballast and picking up and setting off attachments.
- Normal operation includes the adjustment and setting of the tractor and equipment, for the specific condition of the field and/ or the crop.

Routine service

- Routine service and maintenance means activities that must be done daily by an operator familiar with the tractor characteristics and complying with the information for routine service and safe practices, as specified by the manufacturer in this manual and by decals on the tractor, in order to maintain its proper function. Routine service includes activities such as fueling, cleaning, washing, topping up fluid levels, greasing, replacing of consumable articles such as lamp bulbs.

Converting, periodical service and repair

- Periodical service means activities that must be done at defined intervals by trained personnel familiar with the tractor characteristics and which are complying with the information for periodical service and safe practices, as partly specified by the manufacturer in this manual and in other Company literature, in order to maintain the expected life time of the tractor.
- Converting means activities that must be done by professional service personnel familiar with the tractor characteristics and complying with the information for converting, as partly specified by the manufacturer in this manual, in assembly instructions or in other Company literature, in order to fit the tractor to a specific configuration.
- Repair means activities that must be done by professional service personnel only familiar with the

tractor characteristics and complying with the information for repair, as specified by the manufacturer in the dealer's workshop manual, in order to restore the proper function of the tractor after a failure or degradation of performance.

CLEANING THE TRACTOR

Your tractor is a state-of-the-art machine with sophisticated, electronic controls. This should be taken into consideration 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.

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

SAFETY

The pages in Section 2 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 11, at the back of this Manual, you will find the 50-hour service reports.

NOTICE: *It is important the 50 hour service is carried out as recommended to ensure your tractor provides optimum performance and efficiency.*

After you have operated the tractor for 50 hours, take your tractor, together with this Manual, to your dealer. He will then perform the factory recommended 50 hour service and complete the service report sheets (pages 11-1

and 11-3). The first sheet (page 11-1) is your copy of the service performed. The second sheet (page 11-3) is the dealer's copy and should be removed by the dealer after the service has been carried out. 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 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 authorised, 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.

USE OF BIODIESEL FUELS

NOTICE: *Before using Biodiesel fuels in your tractor, refer to the information on page 7-4 regarding the storage and use of Bio diesel fuels.*

EMISSION CONTROLS

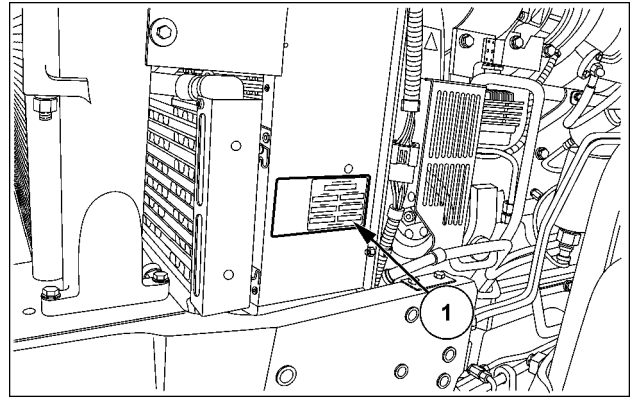
NOTE: *The engine and fuel system on your machine is designed and built to government emissions standards. Tampering by dealers, customers, operators and users is strictly prohibited by law. Failure to comply could result in government fines, rework charges, invalid warranty, legal action and possible confiscation of the machine until rework to original condition is completed. Engine service and/or repairs must be done by a certified technician only!*

PRODUCT IDENTIFICATION

The tractor and major components are identified using serial 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.

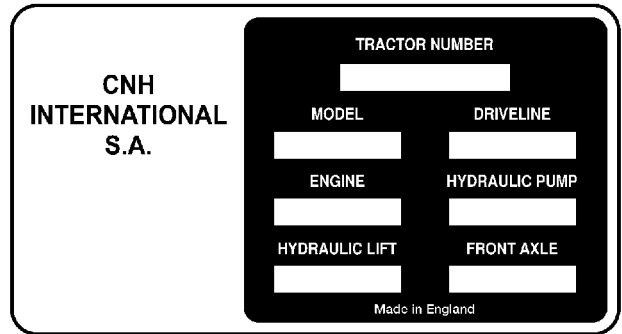
The following provides the locations of the identification data.



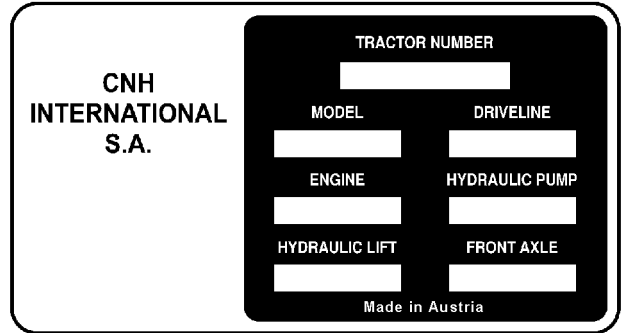
SS11H223 1

Vehicle Identification Plate

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



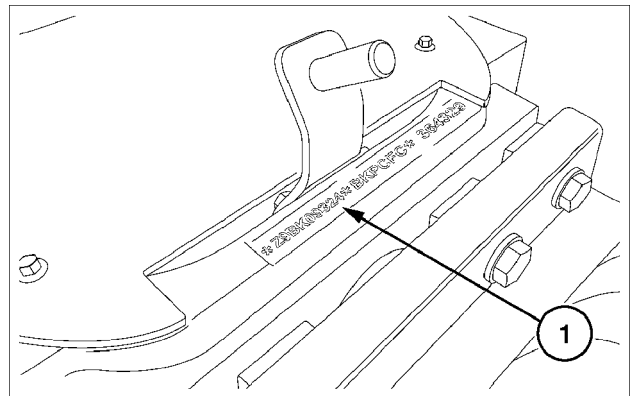
SS10D342 2



SS10M161 3

Tractor Identification

The serial number and model identification information is stamped on the front support (1). These numbers are also repeated on the vehicle identification plate reproduced above.

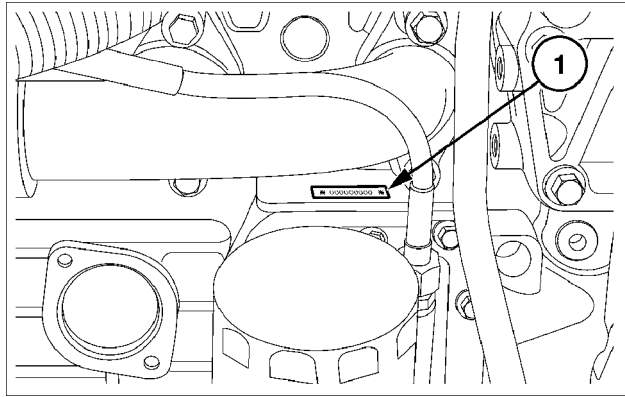


BRL6441B 4

ENGINE IDENTIFICATION

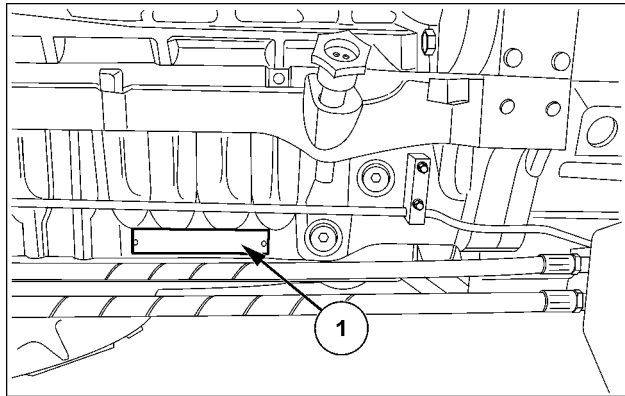
The engine serial number and date of manufacture are stamped on the right-hand side of engine block (1) below the manifold. Record the number below.

Engine Serial No. _____



BRJ4859B 1





The engine serial number is repeated on the information plate located on the left side of the engine oil pan.



SS10K020 2

Further information relating to engine adjustments and emission level compliance are also shown on the engine information plate.

NOTE: The details displayed on the engine information plate may change according to the country in which the tractor is sold.

 EMISSION CONTROL INFORMATION		Engineered By 		ENGINE MADE IN ITALY
This engine complies with U.S. EPA regulation for model year non-road and stationary diesel engines and California regulation for model year non road diesel engines. This engine is certified to operate on ultra low sulfur fuel only.	FEL g/KW-hr	EPA	Engine Family	Model
	NOx+NMHC		Displacement	Advertised Power kW
	PM		Power Category	<input type="text"/>
CNH Part Number	ECS	Date of MFG.	Serial Number	
DELEGATED ASSEMBLY				* X X X X X X X X X X X X *

SS10M162 3

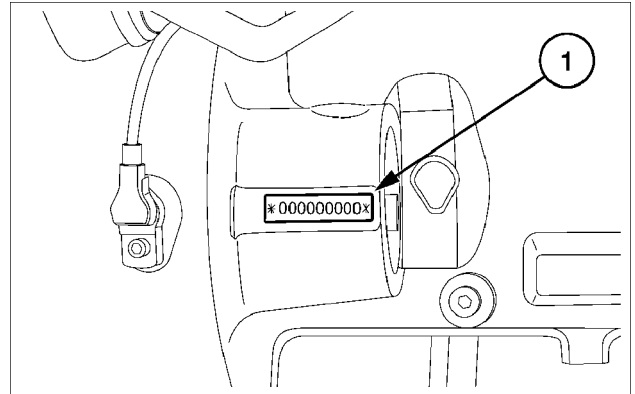
DRIVELINE IDENTIFICATION

The serial number plate (1) is located on the transmission casing behind the battery carrier.

This number is repeated on the vehicle identification plate. Record the information below for quick reference.

Semi Powershift Transmission 16x16

Driveline Serial No. _____

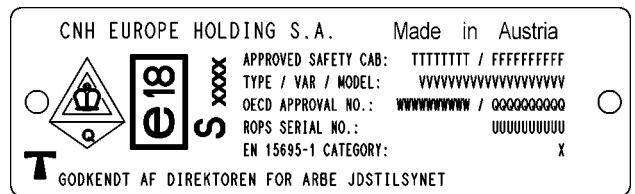


BRJ4857B 1

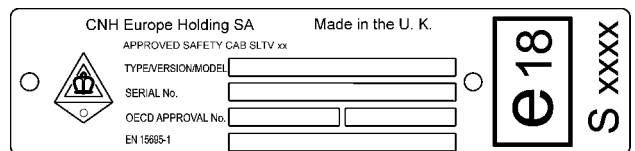
CAB IDENTIFICATION

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

Cab Serial No. _____



SS11M292 1

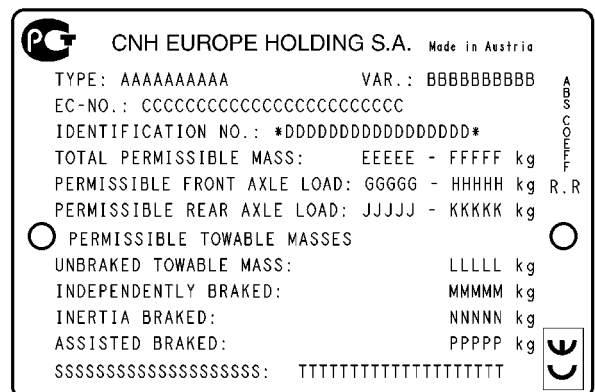


SS11M293 2

PRODUCT IDENTIFICATION PLATE

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

The figures shown are the maximum permissible vehicle and towing weights and should not be exceeded, to do so may affect the safe operation of the tractor, see on page **6-143**.



SS11M259 1

ECOLOGY AND THE ENVIRONMENT

Soil, air and water are vital factors of agriculture and life in general. Where legislation does not yet rule the treatment of some of the substances which are required by advanced technology, common sense should govern the use and disposal of products of a chemical and petrochemical nature.

The following are recommendations which may be of assistance:

- Become acquainted with and ensure that you understand the relative legislation applicable to your country.
- Where no legislation exists, obtain information from suppliers of oils, filters, batteries, fuels, anti freeze,

cleaning agents, etc., with regard to their effect on man and nature and how to safely store, use and dispose of these substances. Agricultural consultants will, in many cases, be able to help you as well.

HELPFUL HINTS

- Avoid filling tanks using unsuitable containers or inappropriate pressurised fuel delivery systems which may cause considerable spillage.
- If you are exposed to or come in contact with hazardous chemicals you can be seriously injured. The fluids, lubricants, paints, adhesives, coolant, etc. required for the function of your machine can be hazardous. They may be attractive and harmful to domestic animals as well as humans.
- Dispose of all fluids, filters and containers in an environmentally safe manner according to local laws and regulations. Check with local environmental and recycling centers or your dealer for correct disposal information. Store fluids and filter in accordance with local laws and regulations. Use only appropriate containers for the storage of chemicals or petrochemical substances.
- Modern oils contain additives. Do not burn contaminated fuels and/ or waste oils in ordinary heating systems.
- Avoid spillage when draining off used engine coolant mixtures, engine, gear box and hydraulic oils, brake fluids, etc. Do not mix drained brake fluids or fuels with lubricants. Store them safely until they can be disposed of in a proper way to comply with local legislation and available resources.
- Modern coolant mixtures, i.e. antifreeze and other additives, should be replaced every two years. They should not be allowed to get into the soil but should be collected and disposed of safely.
- The air conditioning system contains gases that are harmful to the environment when released into the atmosphere. Do not attempt to service or repair the system. Your dealer or air conditioning specialist has a special extractor for this purpose and will have to recharge the system anyway.
- Repair any leaks or defects in the engine cooling or hydraulic system immediately.
- Do not increase the pressure in a pressurised circuit as this may lead to the components exploding.
- Protect hoses during welding as penetrating weld splatter may burn a hole or weaken them, causing the loss of oils, coolant, etc.
- Keep out of reach of children or other unauthorized persons. Additional precautions are required for applied chemicals. Obtain complete information from the manufacturer or distributor of the chemicals before using them.

NOISE LEVEL INFORMATION SHEET

AIRBORNE NOISE EMISSION

In accordance with E.E.C. directives, the noise levels of tractors covered by this manual are as follows:
Tractors with Cab and Fixed Windscreen (low or high roof) with Air Cleaner Extraction System (all transmissions)

MAXXUM Multicon- troller	Noise level at operators ear		40 km/h 25 mph	40 km/h 25 mph ECO	50 km/h 31 mph	stationary noise at engine speed	
	closed ¹⁾	open ²⁾	drive by noise			Annex VI**	
	Annex II*		Annex IV**	Annex IV**	Annex IV**		
110 EP	71 dB (A)	78 dB (A)	82 dB (A)	80 dB (A)	81 dB (A)	79 dB (A)	2270 RPM
120 EP	71 dB (A)	78 dB (A)	84 dB (A)	83 dB (A)	83 dB (A)	79 dB (A)	2270 RPM
130 EP	71 dB (A)	78 dB (A)	84 dB (A)	83 dB (A)	83 dB (A)	79 dB (A)	2270 RPM
115 EP	71 dB (A)	77 dB (A)	83 dB (A)	81 dB (A)	83 dB (A)	79 dB (A)	2250 RPM
125 EP	71 dB (A)	78 dB (A)	83 dB (A)	82 dB (A)	83 dB (A)	79 dB (A)	2250 RPM
140 EP	71 dB (A)	78 dB (A)	83 dB (A)	82 dB (A)	83 dB (A)	79 dB (A)	2250 RPM

* Test results are in accordance with directive 2009/76/EC Annex II.

Maximum noise level at the operator's ear with:

- 1) all cab windows and doors closed, tractor off load.
- 2) rear window and roof hatch open, tractor off load.

** Test results are in accordance with directive 2009/63/EC Annex VI.

PROGRAMMING TRACTOR FUNCTIONS

Your tractor is equipped with a sophisticated electronic network system which utilizes various memory facilities to programme and control many of the tractor functions. The operating memory temporarily stores settings and adjustments made while operating the tractor and these are transferred to the main memory when you key- off (engine stop).

If you key- off and key- on again too quickly as data is being transferred between the operating and main memories, some of the data may be lost or corrupted.

If changes have been made to any memory settings while operating the tractor, pause for **5 s** between key- off and key- on to allow sufficient time for data to transfer between the operating memory and the main memory. Once transferred, the new settings will remain unchanged until they are re- programmed.

BEFORE OPERATING THE TRACTOR

Before operating your tractor in the field it is important you read the following information.

NOTE: Before driving or operating the tractor, study the safety precautions in Section 2 of this manual.

Read this section carefully for a thorough understanding of operational requirements. It details the location and operation of the various instruments, switches and controls of your tractor. Even if you operate other tractors, you should thoroughly read this section of the manual and ensure that you are familiar with the location and function of all the features of the tractor.

Do not start the engine or attempt to drive or operate the tractor until you are fully accustomed with all the controls. It is too late to learn once the tractor is moving. If in doubt about any aspect of operation of the tractor, consult your authorised dealer.

RUNNING- IN PROCEDURE

NOTICE: Your new tractor will provide long and dependable service if given proper care during the 50 hour running- in period and if serviced at the recommended intervals.

Avoid overloading the engine. Operating in too high a gear under heavy load may cause excessive engine overloading. Overloading occurs when the engine will not respond to a throttle increase.

Do not operate without a load on the engine. This can be as harmful to the engine as overloading. Vary the type of operation undertaken so that the engine is subjected to heavy as well as light loads during the running- in period.

Use the lower gear ratios when pulling heavy loads and avoid continuous operation at constant engine speeds. Operating the tractor in too low a gear with a light load and high engine speed will waste fuel. You will save fuel and minimise engine wear by selecting the correct transmission ratio for each particular operation.

Check the instruments and warning lights frequently and keep the radiator and various oil reservoirs filled to the recommended levels.

PRE- OPERATION CHECKS

Before operating the tractor, ensure that you are thoroughly familiar with the location and operation of the controls.

Perform all daily lubrication and maintenance operations in accordance with Section 7.

After completing the daily maintenance operations, perform a walk around visual inspection of the tractor. Pay particular attention to the following items:

- Poly 'V' belt for cracks or damage.
- Engine and exhaust areas for accumulation of debris.
- Hoses, lines and fittings for leaks or damage.
- Tyres for damage
- Hardware for looseness
- Driveline and hydraulic pump/ filter areas for leaks or debris accumulation

Make any necessary repairs before using the tractor.

INTERNATIONAL SYMBOLS

As a guide to the operation of the machine, various universal symbols have been utilized on the instruments, controls, switches, and fuse box. The symbols are shown below with an indication of their meaning.

 Thermostat starting aid	 Roof beacon	 P.T.O.	 Draft Control
 Alternator charge	 KAM Keep alive memory	 N Transmission in neutral	 Accessory socket
 Fuel level	 Turn signals	 Creeper gears	 Implement socket
 Automatic Fuel shut-off	 Turn signals -one trailer	 Slow or low setting	%age slip symbol" data-bbox="744 278 787 304"/> %age slip
 Engine speed (rev/min x 100)	 Turn signals -two trailers	 Fast or high setting	 Hitch raise (rear)
 Hours recorded	 Front wind-screen wash/wipe	 Ground speed	 Hitch lower (rear)
 Engine oil pressure	 Rear wind-screen wash/wipe	 Differential lock	 Hitch height limit (rear)
 Engine coolant temperature	 Heater temperature control	 Rear axle oil temperature	 Hitch height limit (front)
 Coolant level	 Heater fan	 Transmission oil pressure	 Hitch disabled
 Tractor lights	 Air conditioner	 FWD engaged	 Hydraulic and transmission filters
 Headlamp main beam	 Air filter blocked	 Warning!	 Remote valve extend
 Headlamp dipped beam	 Parking brake	 Hazard warning lights	 Remote valve retract
 Work lamps	 Brake fluid level	 Variable control	 Remote valve float
 Stop lamps	 Trailer brake	 Pressurised! Open carefully	 Malfunction! See Operator's Manual
 Horn	 Warning ! Corrosive substance	 Position Control	 Malfunction! (alternative symbol)

VIBRATION LEVEL INFORMATION SHEET

HAZARDS RELATED TO VIBRATION EXPOSURE

NOTE: The Whole Body Vibration level will depend on a lot of parameters, some of them machine related, others terrain related and many driver related. The properties of the track or field surface and the driving speed will be the predominant parameters.

⚠ WARNING

Machine vibration caused by improper machine maintenance could injure an operator. Follow ALL of the precautions listed below. Failure to comply could result in death or serious injury.

W0443A

- Make sure, the machine is in good condition and that the service interval work has been carried out correctly.
- Check the tyre pressure, the steering and the brake system.
- Check that the operator's seat and adjustment controls are in good condition and then adjust the seat to suit the operator's size and weight.
- Operate all controls consistently so the machine works smoothly and modify your driving to suit working conditions.
- During travel, adjust your speed and slow down if necessary.

In compliance with EU standard, **78/764/EEC** you can find in the table below the vibration levels measured for seats used on your tractor model.

Seat model / type	Vibration* at (testing mass)	
	Light weight operator	Heavy weight operator
GRAMMER MSG 95G/741	1.24 m/s² (4.07 ft/s²)	1.1 m/s² (3.61 ft/s²)
GRAMMER MSG 95GL/741	0.91 m/s² (2.99 ft/s²)	1.06 m/s² (3.48 ft/s²)

* Corrected weighted vibration acceleration

MACHINE STABILITY

⚠ WARNING

Driving hazard!

To prevent machine instability, **ALWAYS** consider and follow the machine stability requirements in this manual.

Failure to comply could result in death or serious injury.

W0452A

The following procedure describes the requirements for machine stability and how to calculate the required front mounted and rear mounted ballast.

For the ballast refer also to the ballast recommendations in this manual.

For the maximum permitted operating weights refer to the vehicle weights in this manual.

The following procedure and calculation is based on the machine on even ground.

⚠ WARNING

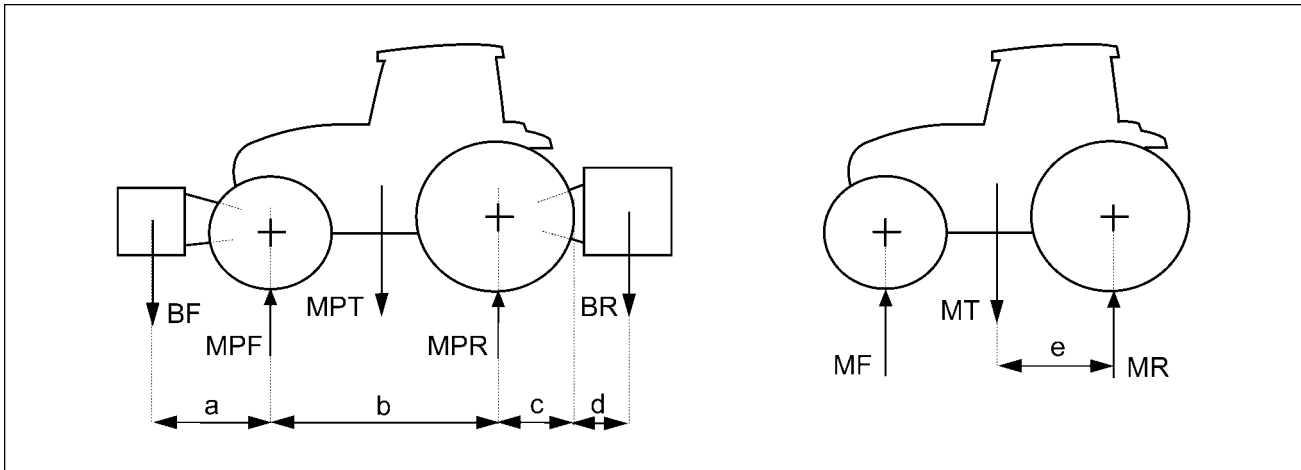
Roll-over hazard!

ALWAYS be aware of the effect of inclines and steep hills on machine stability. Operating, handling, and braking performance may be affected. Adjust ballast and driving speed accordingly to ensure stable and accurate steering, and to ensure the required brake performance in critical situations.

Failure to comply could result in death or serious injury.

W0444A

NECESSARY DATA TO EVALUATE STABILITY



SS11D001 1

Legend

		To get this Value Refer to:
MT	Mass of the unladen tractor = Tractor with standard equipment, minimum fuel, no weights or liquid ballast, no operator and single wheel equipment	This manual
MF	Front axle load unladen tractor	This Manual
MR	Rear axle load unladen tractor	This Manual
a	Distance Centre of Gravity front load to front axle centre	Manual of the equipment or to measure
b	Wheelbase	This Manual
c	Distance rear axle centre to lower hitch point of three point linkage	This Manual or to measure
d	Distance Centre of Gravity rear load to lower hitch point of three point linkage	Manual of the equipment or to measure
e	Distance rear axle centre to centre of gravity (COG) of MT (mass of unladen tractor)	To calculate (Formula on following pages)
BF	Mass of front mounted equipment or front mounted ballast	Manual of the equipment or to measure
BR	Mass of rear mounted equipment or rear mounted ballast	Manual of the equipment or to measure
MPT max	Maximum permissible mass of the laden tractor	This manual
MPF max	Maximum permissible front axle load	This manual
MPR max	Maximum permissible rear axle load	This manual

NOTE: 1. Equipment weight together with its filling must be added to laden values (seed drills, fertilizer spreaders, etc.).

NOTE: 2. Ballasting weight in the centre of the front or rear tires, either solid or liquid, must be added to MF, MR and MT.

NOTE: 3. In case of an unbalanced trailer, the value c is the distance between the centre of the rear axle and the hitching point, the value d is 0 and BR is the vertical load of the trailer on the hitch.

CONSTANT PARAMETERS

0.2	Minimum ratio: actually axle load of laden front axle/ mass of the unladen tractor	Legal requirement
0.45	Minimum ratio: actually axle load of laden rear axle/ mass of the unladen tractor	Legal requirement

REQUIRED FRONT BALLAST

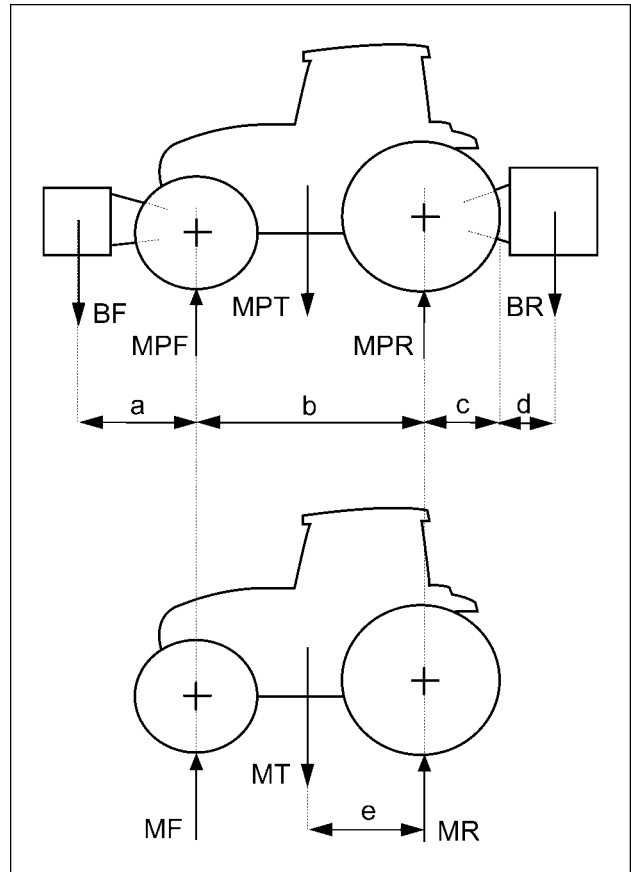
To Calculate	
BFr	Ballast required at the front when carrying a load BR at the rear

CALCULATION OF BFr	
$MT * e = MF * b$	
$e = (MF * b) / MT$	
$BR * (c + d) - (MT * e) + (MPF * b) = BFr * (a + b)$	
$MPF > 0.2 * MT$	
MPF value must be higher than $0.2 * MT$	
$BFr > [BR * (c + d) - (MF * b) + (0.2 * MT * b)] / (a + b)$	

REQUIRED REAR BALLAST

To Calculate	
BRr	Ballast required at the rear when carrying a load BF at the front

CALCULATION OF BRr	
$MT * b (b - e) = MR * b$	
$BF * a - MT * (b - e) + (MPR * b) = BRr * (b + c + d)$	
$MPR > 0.45 * MT$	
MPR value must be higher than $0.45 * MT$	
$BRr > [(BF * a) - (MR * b) + (0.45 * MT * b)] / (b + c + d)$	



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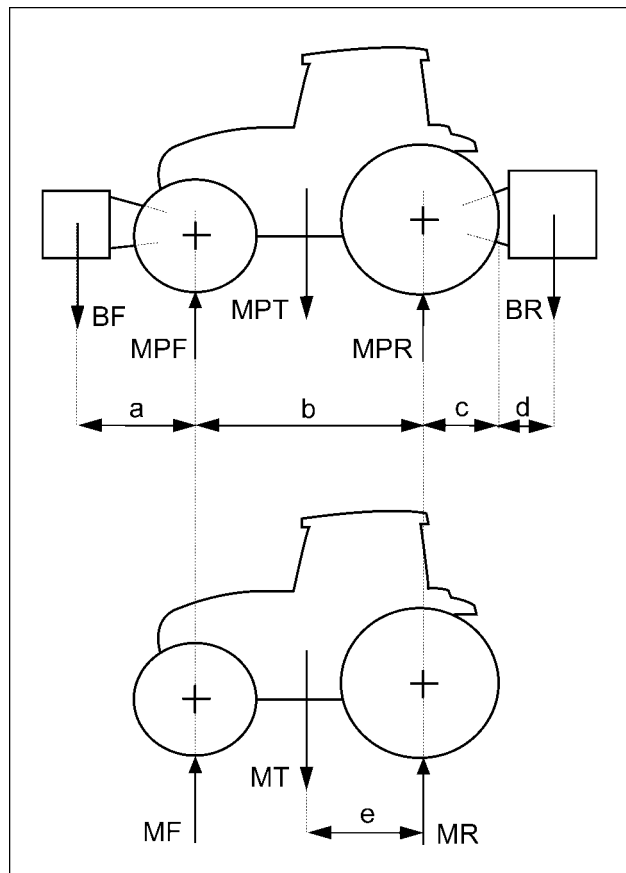
AXLE LOAD LIMITS

TO CALCULATE	
MPF	$MPF < MPF \text{ max}$
MPR	$MPR < MPR \text{ max}$
MPT	$MPT < MPT \text{ max}$

CALCULATION OF MPF	
$(MPF * B) - BF * (A + B) - (MT * E) + BR * (C + D)$	
$MPF = [BF * (A+B) + (MF * B) - BR * (C+D)] / B < MPF \text{ MAX}$	

CALCULATION OF MPT	
$MPT = BF + MT + BR < MPT \text{ MAX}$	

CALCULATION OF MPR	
$MRT = MPT - MPF < MPR \text{ max}$	



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INSTRUCTOR'S SEAT

▲ WARNING

Misuse hazard!

Only use the instructional seat for training new operators or when a technician is diagnosing a problem. The occupant must wear a seat belt. Do not allow others to ride in the seat. The ROPS may not provide enough protection for the seat occupant. See SAFETY INFORMATION, Instructional seat safety.

Failure to comply could result in death or serious injury.

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The extra seat provided in the cab of the tractor is installed in order to allow only a trainer or a trainee to be seated safely while teaching a new Operator or by dealer personnel when monitoring the function of the tractor. It is not meant for road transportation of a passenger or for transferring passengers between fields or during operation in the field.

Instructional Seat Safety

1. Passengers are not permitted to ride on the machine.
2. The instructional seat is to be used only when training a new operator or when a service technician is diagnosing a problem.
3. When required for the purposes of training or diagnostics, only one person may accompany the operator, and that person must be seated in the instructional seat.
4. When the instructional seat is occupied, the following precautions must be followed:
 - Machine should be driven only at slow speeds and over level ground.
 - Avoid driving on highways or public roads.
 - Avoid quick starts or stops.
 - Avoid sharp turns.
 - Always wear correctly adjusted seat belts.
 - Keep doors closed at all times.

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