JX80U, JX90U, JX100U Tractors

Operator's Manual

Mod 6-61391

CASE IH

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CAUTION

THIS WARNING SYMBOL POINTS OUT IMPORTANT MESSAGES CONCERNING YOUR SAFETY. READ THE FOLLOWING SAFETY REGULATIONS CAREFULLY AND FOLLOW THE RECOMMENDATIONS IN ORDER TO AVOID POTENTIAL HAZARDS AND SERIOUS OR FATAL ACCIDENTS. SAFEGUARD YOUR HEALTH AND SAFETY AND THAT OF OTHERS BY ALWAYS TAKING THE UTMOST CARE.

In this manual and on the decals attached to the tractor, the symbol is accompanied by the following key-words:

■ ***CAUTION*** – When the warning is to prevent potential damage to the machine, which could also put the operator's safety at risk.

■ ***DANGER*** – This warning specifically indicates a potential danger to the user or to any other person directly involved.

Failure to observe the instructions preceded by the aforementioned key words (**CAUTION** and **DANGER**) may result in severe or fatal injury to the persons involved.

Furthermore, this manual also contains instructions in italics preceded by the terms **NOTE** and **WARNING**, with the following relevance in relation to machine protection:

■ ***NOTE*** – Underlines the correct procedure or technique to be followed by the operator.

■ ***WARNING*** – Informs the operator of the danger of damaging the machine if the specified procedure is not followed.

IMPORTANT WARNINGS

The machine is designed and produced exclusively for agricultural and forestry use. Any other use may lead to serious accidents.

All other use will be considered to be contrary to the use specified by CASE IH, who cannot be held liable for damage to property or the machine, or for personal injuries which may result.

Persons who risk improper use will therefore assume the responsibility for any consequences arising from such use.

Compliance with the instructions for use, maintenance and repairs described in this manual, are the essential preconditions for the use specified by CASE IH.

The machine must only be used, serviced or repaired by personnel trained in the relevant working methods and safety regulations and who have been authorised to work on the machine.

The driver must also observe the rules concerning general safety and accident prevention, including the Highway Code when driving on public highways.

Any arbitrary modifications made to this machine will release CASE IH from any liability resulting from damage or injury.

CASE IH and all distribution organisations, inclusive of, but not restricted to, national, regional or local distributors, cannot be held liable for damage resulting from the malfunction of parts and/or components not approved by CASE IH.

Under no circumstances will a guarantee be issued for products made or sold by CASE IH that are damaged as a result of the malfunction of parts and/or components not approved by CASE IH.

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TRACTOR IDENTIFICATION

Serial numbers identify the tractor and its main components. The identification data must be supplied by the dealer for requests for spare parts or service operations. Identification data is of fundamental importance in the event of theft of the tractor. In order to be able to quickly find the reference data of your tractor, note down the information in the space provided below.

Model .....

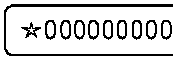
Frame number identification .....

Roll bar number .....

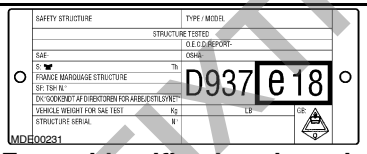
Cab identification number .....

Engine series number .....

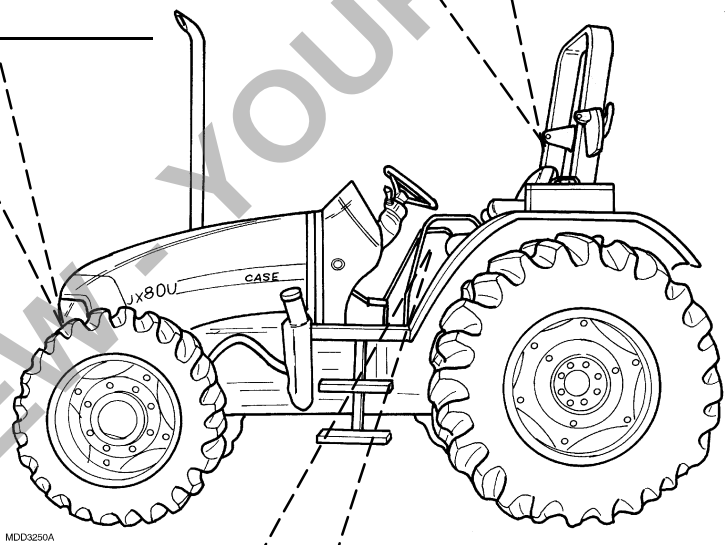
Number plate .....



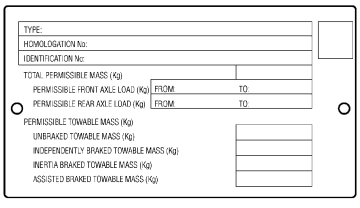
Tractor frame number identification data plate (stamped on the axle support under the bonnet).



Frame identification data plate.



Frame and engine type identification data plate.



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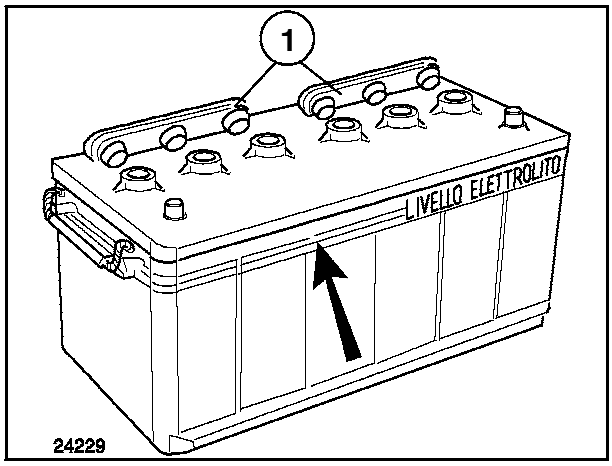
FAULT CODE DESCRIPTIONS

CODE	FAULT	RECOVERY
11	Clutch pedal potentiometer – voltage too low	Cycle shuttle lever
12	Clutch pedal potentiometer– voltage too high	Cycle shuttle lever
13	high speed and low speed buttons pressed simultaneously.	Self clearing when problem is corrected
14	“G” gear switch – voltage too high	Latched
15	“G” gear switch – voltage too low	Latched
16	“R1” range switch – voltage too high	Latched
17	“R1” range switch – voltage too low	Latched
18	“R2” range switch – voltage too high	Latched
19	R2 range switch – voltage too low	Latched
21	Chassis wiring error. Circut open.	Latched
* 22	Clutch A solenoid – short circuit	Latched
* 23	Clutch B solenoid – short circuit	Latched
24	Clutches not calibrated.	Latched
25	Engine speeed (RPM) too high	Latched
26	Clutch D not calibrated	Self clearing when problem is corrected
27	Clutch C not calibrated	Self clearing when problem is corrected
28	Clutch B not calibrated	Self clearing when problem is corrected
29	Clutch A not calibrated	Self clearing when problem is corrected
* 31	Clutch C solenoid – short circuit	Latched
* 32	Clutch D solenoid – short circuit	Latched
* 33	Clutch A solenoid – pressure not detected	Cycle clutch pedal
34	Wheel speed too low	
35	Wheel speed too high	
36	Engine RPM too low	
37	Clutch pedal switch open circuit / position more than 15%.	Cycle clutch pedal
* 38	Solenoid or clutch B driver shorted	Latched
* 39	Clutch B solenoid – open circuit or short to ground	Latched
* 41	Clutch A solenoid – open circuit or short to ground	Latched
* 42	Solenoid or clutch A driver shorted to +12V	Latched
* 43	Clutch B – pressure not detected	Cycle clutch pedal

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ELECTRICAL SYSTEM



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BATTERY - Fig. 232

The tractors are fitted with maintenance-free batteries.

Keep the top part clean and dry.
Check that the level of electrolyte reaches the top mark and never falls below the lower mark.
If necessary lift covers (**1**) and add distilled water.

CAUTION: *Never fill up the battery with SULPHURIC ACID.*

Never use rapid "boost" battery chargers to recharge the battery.

Check the charge with a digital voltmeter in the following way:

— connect the voltmeter to the battery's two terminals, matching the terminal symbols (negative to negative and positive to positive) and read the value from the instrument;

— compare the figure with the values in the table below to establish the charge in the battery.

Voltage (V)	Charge level
12.66	100%
12.45	75%
12.30	50%
12.00	25%

If the voltage is around 12.30 V, immediately recharge the battery with a current equivalent to ***1/10*** of the capacity in ***Ah*** (a ***50 Ah*** battery is to be charged to ***5 Amp***).

NOTE: *If the battery frequently requires topping up or tends to run down, have the electrical system on the tractor checked by your local dealer.*

CAUTION: *before recharging the battery, always disconnect the cables. The battery should be removed from its seat and recharged at a safe distance from the tractor.*

DANGER: *During recharging operations keep the area well ventilated. Keep flames/sparks well away and do not smoke.*

NOTE: *Batteries and storage batteries contain components that may be damaging to the environment if incorrectly disposed of after use.*
CASE IH strongly advise that all "dry" batteries, used in electrical or electronic systems, are returned to your local CASE IH dealer. The dealer will dispose of (or recycle) the batteries correctly. This procedure is requested by law in certain countries.

NOTE: *If an old battery needs to be replaced with a new one, proceed as follows:*

— *first disconnect the lead end marked with a negative sign (-), then the lead end with the positive sign (+);*

— *fit the new battery in the correct place without over-tightening the retaining screws;*

— *clean the lead ends and connect them to the battery terminals, ensuring that the negative terminal (-) is connected last;*

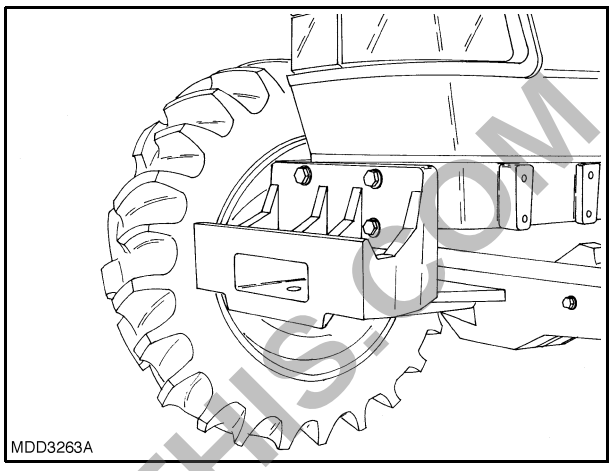
— *fully tighten the lead ends on the terminals and smear them with petroleum jelly.*

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METAL BALLAST

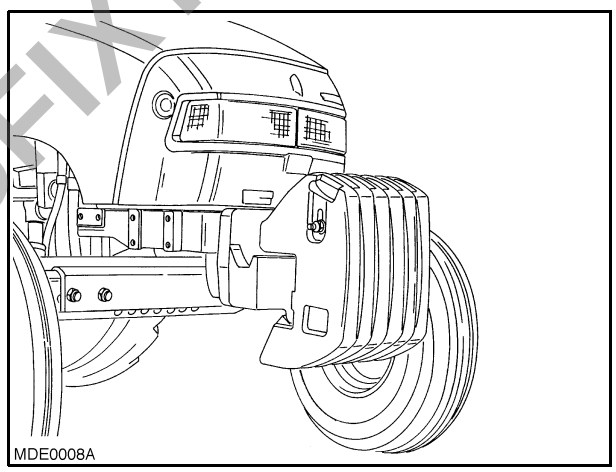
If the tractor requires high traction power, the drive wheels may slip due to insufficient grip on the ground, causing loss of power and speed, increased fuel consumption and premature tyre wear. We therefore advise fitting cast-iron rings as ballast on the drive wheels, or ballasting wheels with cast iron disks or water according to the instructions on pages 150 and 151. When using very long and heavy implements, which could affect the longitudinal stability of the tractor, ballast the front axle by fitting the appropriate cast-iron counterweights.



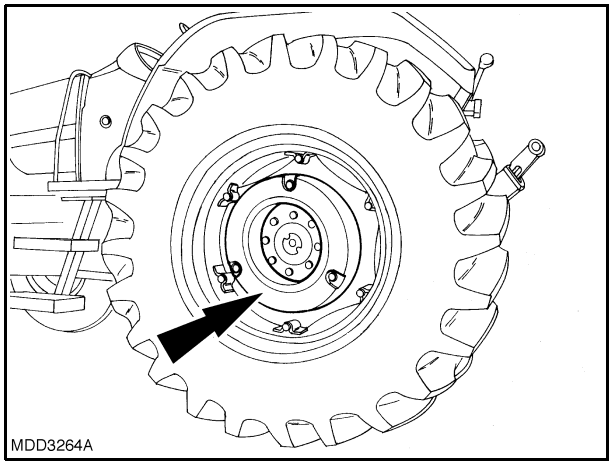
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Front axle ballast - Figs. 156 and 157

2, 6, or **10** cast iron counterweights with handles, plus **253.5 lbs (115 kg)** for each support, for a total of **694.5 lbs (315 kg)** or **1091.3 lbs (495 kg)** or **1245.6 lbs (565 kg).**



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Rear wheels ballast - Fig. 158

With cast iron rings, **4** or **6** rings weighing **121.3 lbs (55 kg)** each, for a total of **485.0 lbs (220 kg)** or **727.5 lbs (330 kg)**.

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MFD front tyres

Tyres	Water (1)	
	kg (litres)	lb
11.2–24	90	198
12.4–24	115	253
13.6–24	120	264
14.9–24	150	330

2WD/MFDRear tyres

Tyres	Water	
	kg (litres)	lb
16.9–30	250	551
18.4–30	320	705
13.6–38	190	418
16.9–34	280	617
18.4–34	360	793

FILLING WITH WATER

The quantity of water required for each tyre is only approximate.

(1) The quantities of water required for each tyre shown in the table may differ, depending on the tyre manufacturer.

NOTE: *When filling tubeless tyres with water, use the inner tube to prevent the rim from rusting.*

FILLING TYRES WITH ANTIFREEZE SOLUTIONS

To prevent freezing water from damaging the tyres, use a solution of neutralized calcium chloride (in flakes) instead of pure water.

Prepare the solution by pouring the quantity of water required into a container and adding the calcium chloride slowly, stirring continuously.

The quantities of water and chloride required to make sufficient antifreeze to fill each tyre to 75% are shown in the tables on the following page.

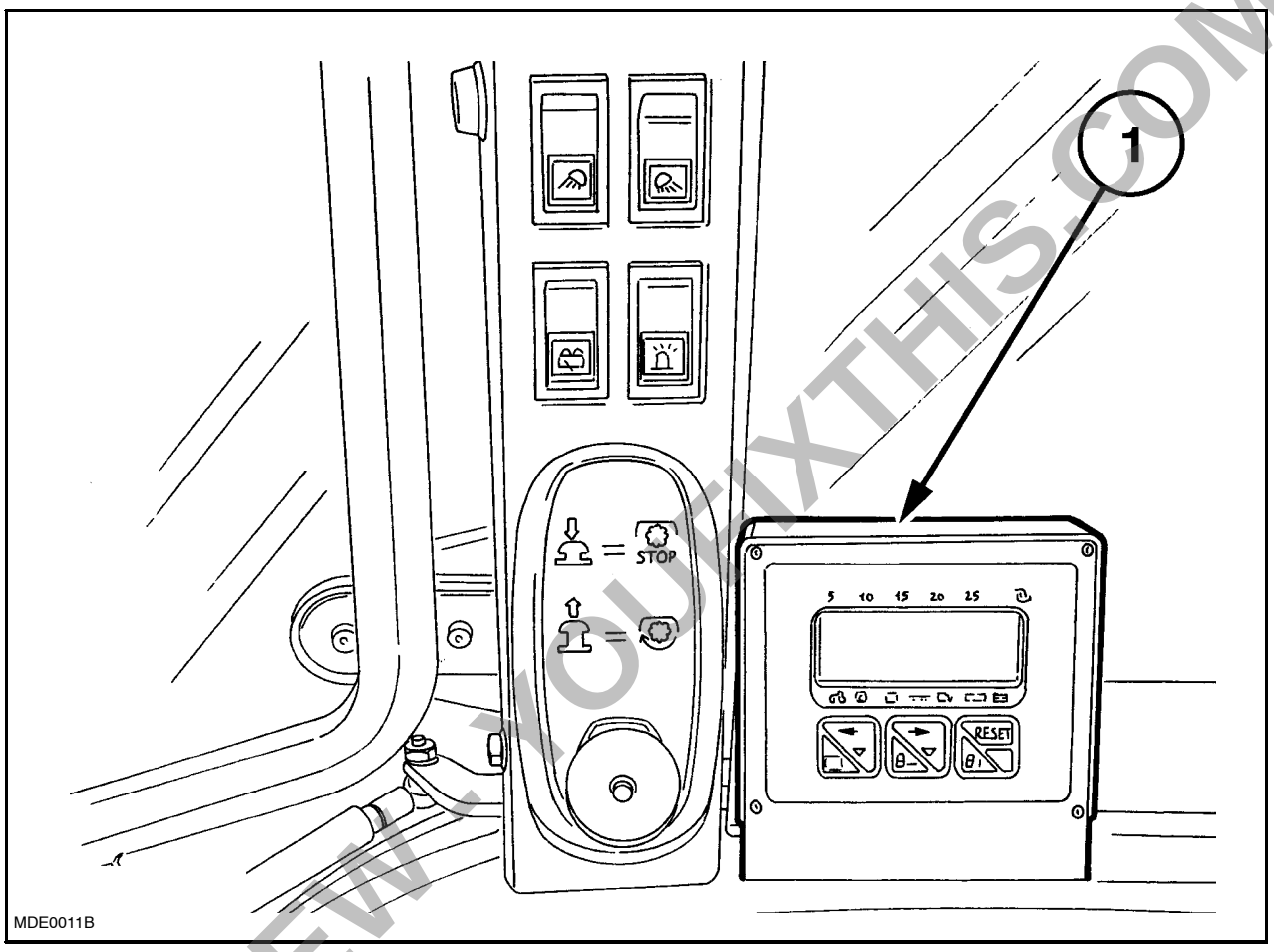
DANGER: *Never proceed in reverse order. Pouring water into chloride can be dangerous.*

CAUTION: *Contact the tyre manufacturer for information concerning the correct tyre filling procedure.*

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DIGITAL DISPLAY (OPTIONAL)



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Digital display (**1**) gives the operator important information about the operating performance of the tractor.

The information provided by the instrument is based on data received from the sensors connected to specific parts of the tractor.

NOTE: *The items listed opposite are described in detail from page 126 to page 129 inclusive.*

The following information can be displayed:

1. Tractor speed in km/h or mph.
2. Power take-off speed in rpm.
3. Total area worked in hectares or acres.
4. Distance covered by tractor in km or miles.
5. Area worked in one hour measured in hectares or acres.
6. Operation of battery charging system.
7. Rear axle wheel slip.

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INSTRUMENTS AND CONTROLS

LOCATION AND FUNCTION

CAUTION: *Get on and off the tractor carefully with your body facing towards the vehicle; if possible, use the left-hand door; use the steps and hand rails provided. When getting on or off the tractor, maintain at three contact points (both hands on hand rails and one foot on the steps, or one hand on the handrail and both feet on the steps). Keep the steps free of mud and debris.*

Get into your tractor and check the position and operation of the controls and instruments.

The controls have been sub-divided into groups and are described as follows:

- Seat adjustment.
- Safety belts.
- Steering wheel adjustment.
- Instrument Panel.
- Lights cluster.
- Dashboard controls.
- Operating controls, right-hand side.
- Left-hand side controls.
- Pedal and foot plate controls.
- Digital display.
- Cab controls.
- Cab air conditioning controls.

IMPORTANT: *This section of the manual is intended to provide the general information required by the operator to locate and identify the function of individual controls, but does not describe their use in detail. For this information, read "operating instructions" and "field use" of the manual, before starting and using the tractor.*

CAUTION: *Do not use the tractor if you are not fully acquainted with the position and operation of all the tractor controls.*

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OPERATING INSTRUCTIONS

BEFORE USING THE TRACTOR

Before using the tractor, check that you are familiar with the position and function of all the tractor controls.

Ensure that the maintenance and lubrication operations described in this manual are fully carried out (see table on page 159).

After daily maintenance, carry out a visual inspection of the outside of the tractor, paying particular attention to the following points:

1. signs of cracking on the fan belt;
2. accumulation of dirt around the engine;
3. signs of leaks or damaged components connected to pressure lines, sleeves and connectors;
4. damaged tyres;
5. loose fasteners;
6. accumulation of dirt or leaks on the hydraulic pump and connected parts.

Always carry out any necessary repairs before using the tractor again.
Read this section of the manual carefully before using the tractor. This is particularly important if the tractor is to be used correctly as it contains all the information required on the layout and use of the tractor controls.

Even if you already have experience in using other makes of tractor, this section of the manual especially must be studied carefully and thoroughly.

After reading this section in full, ensure that you are fully familiar with the layout and use of the controls. Ensure too that you know the specifications of the tractors in question.

Never start the engine and tractor if you have not already familiarised yourself with all the controls.

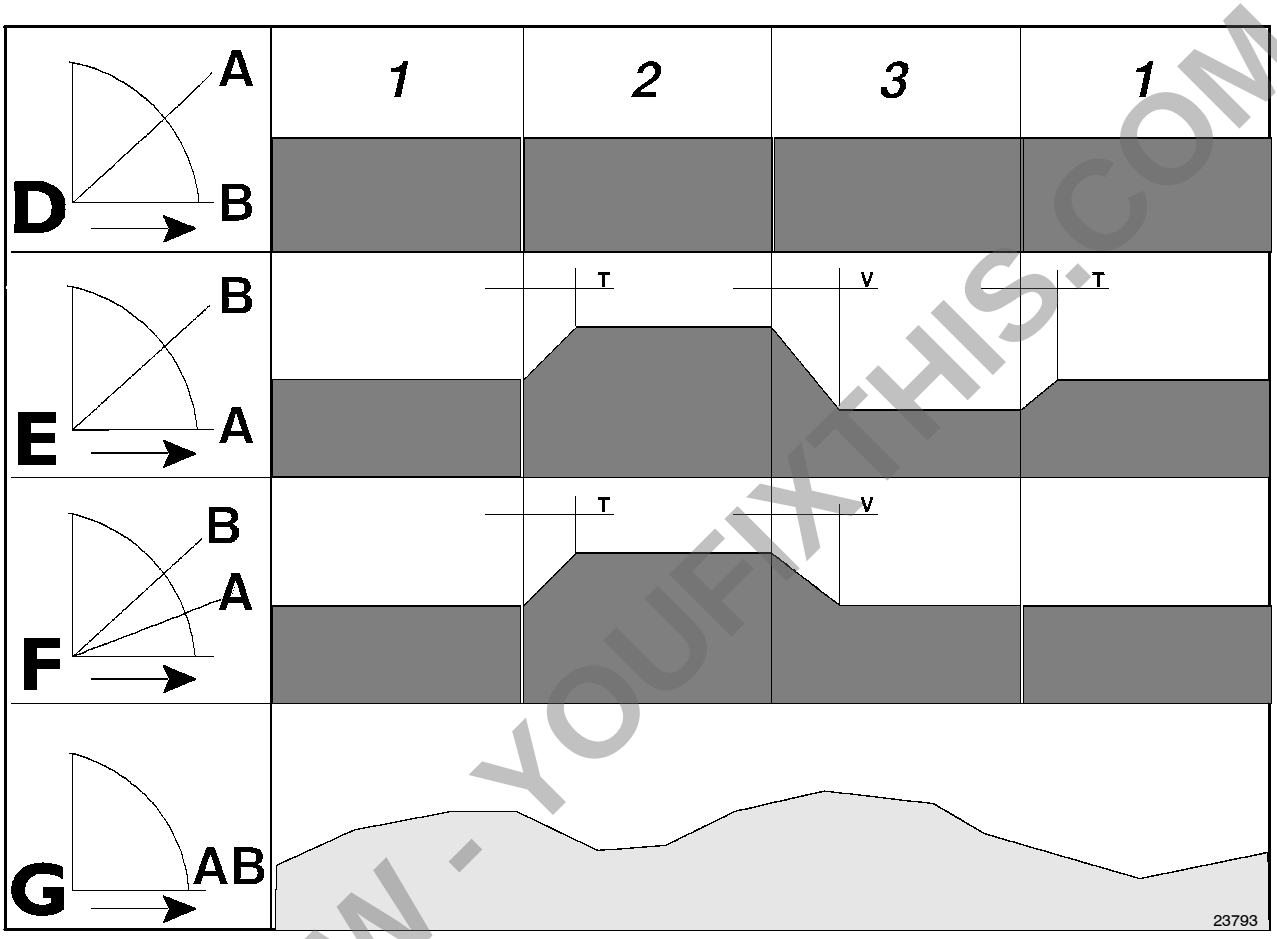
Finding out once the tractor is moving may be too late.
If you have any doubts about any functional aspect of the tractor, contact your dealer.

Particular attention needs to be paid to the tractor’s running-in period, to obtain the best operating reliability and service life for which it is designed and built.

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HYDRAULIC LIFT – CONDITIONS OF USE



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A Position control lever.

B Draft control lever.

D Controlled position.

E Controlled draft.

F Mixed control.

G Float function.

1 Medium consistency soil.

2 Sticky soil.

3 Loose soil.

T Constant action time.

V Constant descent speed.

100

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