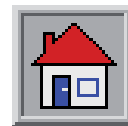


From s/n: 17106
to s/n: 18956



TEREXLIFT

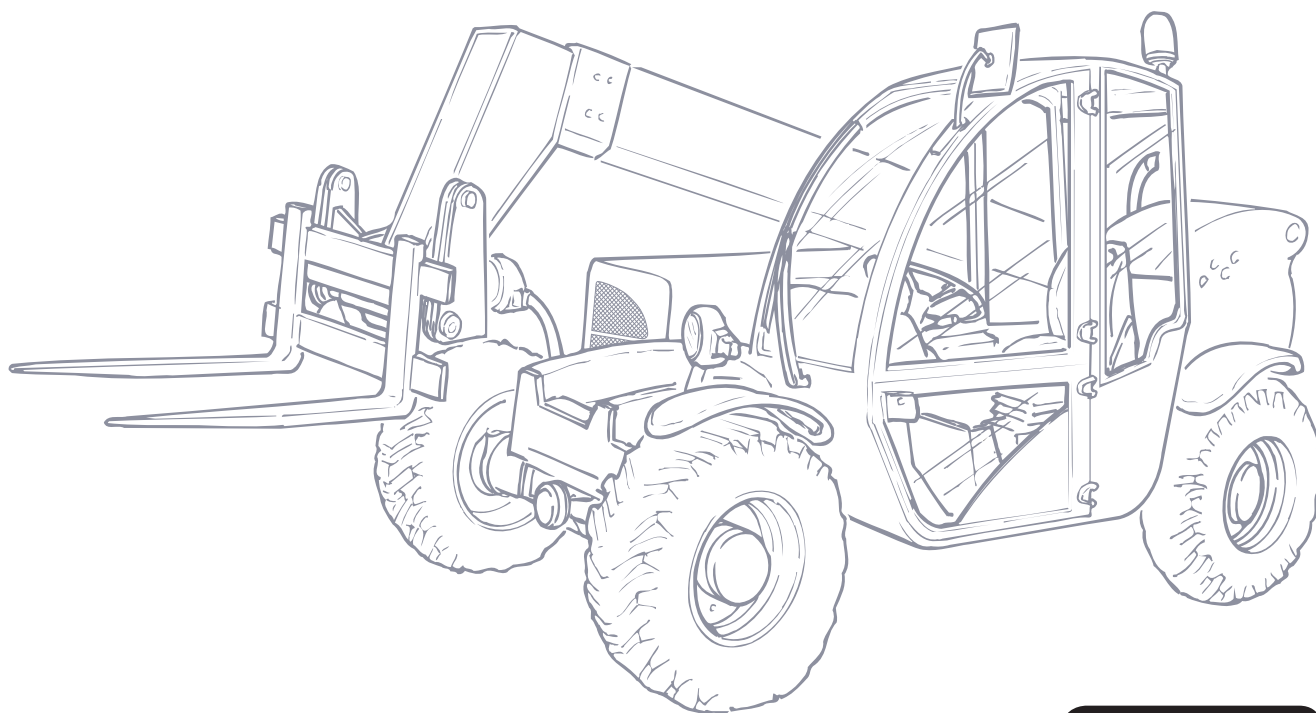
OPERATOR HANDBOOK

Cod. 57.0003.4200 - Rev.4A 05/2007

Handler with telescopic boom

AGRILIFT 625

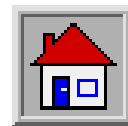
TELELIFT 2506



English
Edition



CAUTION: THOROUGHLY READ AND UNDERSTAND THIS HANDBOOK BEFORE OPERATING THE MACHINE



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DEALER'S OR ASSISTANCE CENTRE STAMP

Operator Handbook 57.0003.4200 - AGRILIFT 625 - TELELIFT 2506

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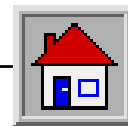
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Produced by:  **vega**



LIST OF REVISED PAGES

Revision No.	Revision date	Revised pages	Notes	Issued by
1	12/2003	A-3, C-16, C-20, C-21	Revision	
	12/2003	D-1, D-8, D-9, D-13, D-16	Revision	
	12/2003	E-2	Revision	
	12/2003	G-9	Revision	
2	05/2004	A-3, A-4, A-5, A-6, A-13, A-18, B-1, B-7, C-1,		
		C-8, C-9, C-17, C-22, C-24, C-27, C-28, D-19,		
		E-3	Revised pages	
		E-4, E-5	Added pages	
3	10/2004	C-23, C-28	Revised pages	
	10/2004	A-1, A-3, A-5, A-14, C-1, C-15, C-16, C-19, C-20,		
		C-21, C-22, C-23, D-19, G-10	Revised pages: TCE version	
		A-7, C-17	Added pages: TCE version	
	10/2004	D-22, D-23, G-1, G-4, G-5, G-6, G-7, G-8	Revised pages: wiring diagram	
		G-9, G-10, G-11, G-12, G-13, G-14, G-15, G-16	Added pages: wiring diagram	
	10/2004	C-1, C-7, C-8, C-18	Revised pages: disabling the overload warning system	
4	03/2005	A-10, A-16, A-17, A-18, A-19, A-20, C-1, C-33, D-8		
		F-3, F-4, F-5, F-6, F-7, F-8, F-9	Revised pages: towing hitch	
		C-34	Added pages: towing hitch	
4A	05/2007	G-1, G-7, G-8, G-9, G-10, G-11, G-12, G-13,		
		G-14, G-15, G-16	Revised pages: wiring diagram	
	05/2007	G-17, G-18, G-19, G-20, G-21, G-22, G-23, G-24,		
		G-25, G-26	Added pages: wiring diagram	
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INTRODUCTION

■ INTRODUCTION

This handbook provides information for a safe and proper operation and maintenance of the machine.

**STRICTLY COMPLY WITH THE INSTRUCTIONS
GIVEN IN THIS HANDBOOK!
READ AND UNDERSTAND THIS HANDBOOK
BEFORE STARTING, USING AND CARRYING
OUT ANY OPERATION WITH AND ON THE
MACHINE.**

The handbook is divided into seven sections:

- Sect. **A** **GENERAL INFORMATION**
- Sect. **B** **SAFETY**
- Sect. **C** **OPERATING INSTRUCTIONS**
- Sect. **D** **MAINTENANCE**
- Sect. **E** **TROUBLESHOOTING**
- Sect. **F** **OPTIONAL ATTACHMENTS**
- Sect. **G** **TABLES AND ENCLOSURES**

Section **A** contains general concepts that are decisive for the knowledge of the main parts of the machine. It also contains all necessary data for a correct identification of the machine, the technical features of the machine, etc.

Section **B** is especially addressed to the personnel, who shall operate, repair and service the machine, and, in case of companies with a wide fleet of machines, to the safety responsible.

It describes the essential compulsory qualities of the personnel in charge and other important information for the safety of persons and things.

Section **C** is mainly addressed to the operators who operate the machine. This section illustrates all control devices.

Additionally, it contains the main use instructions -i.e. engine starting, machine parking, machine storing.

Section **D** is addressed to the maintenance responsible and the servicemen.

The section describes the maintenance schedule and the relevant intervals.

Section **E** deals with the failure diagnostics.

Section **F** makes a list of the main interchangeable attachments that can be coupled to the machine: dimensions, weight, application field and limits of use.

Section **G** contains tables and various enclosed documents like load charts, wiring diagrams, hydraulic schemes, torque wrench setting table, etc.

Sections are subdivided into chapters and paragraphs that are numbered progressively.

The quickest way to look for an information is the reference to the general index or the titles of the single chapters and paragraphs that represent keys for an easy consultation.

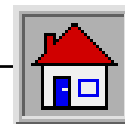
Take care of this handbook and keep it in an accessible place within the machine, even after its reading, so that it will always be within reach if in doubt.

If you are unsure about anything, please address to TEREXLIFT Assistance Service or to your agent/dealer: addresses, phone and fax numbers are printed in the cover and in the title-page of this manual.

IMPORTANT

Any difference between the contents of this manual and the real functional character of the machine can be attributed to either a machine manufactured before the issue of this manual or to a manual going to be updated after some changed effected on the machine.

Always contact Terexlift Assistance Service for any updated version of this manual and any additional information.



INTRODUCTION

■ SYMBOLS

When using the machine, operators could have to face some situations requiring special care and particular knowledge.

When these situations involve the safety of operators or bystanders, the machine efficiency and proper utilisation, this handbook stresses these specific instructions by means of **SPECIAL SYMBOLS**.

There are six special (or safety) symbols in this manual, always combined with keywords that class the situations according to their danger degree.

The symbols are always followed by a text explaining the situation taken into account, the attention to be paid to such situation, the method and the behaviour to be adopted. When necessary, it stresses prohibitions or supplies instructions to prevent dangers.

Sometimes, it can be followed by illustrations.

We list below the special (or safety) symbols according to the relative seriousness of the hazard situation:



Draws the attention to situations that involve your own as well as the others' safety and that can result in serious or lethal injury.



Draws the attention to situations that involve your own as well as the others' safety and that can result in serious injury or lethal injury.



Draws the attention either to situations that involve your own as well as the others' safety and that can result in minor or moderate injury or to situations that involve the machine efficiency.

ATTENTION

Draws the attention to situations that involve the machine efficiency.

IMPORTANT

Draws the attention to important technical information or practical advice that allows for a safer and more efficient use of the machine.



PROTECT THE ENVIRONMENT

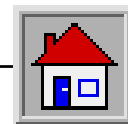
Draws the attention to important environment-related information.

WHEN READING THIS MANUAL, PAY THE GREATEST ATTENTION TO THESE SPECIAL SYMBOLS AND THE EXPLANATION OF THE SITUATIONS THEY EMPHASIZE.

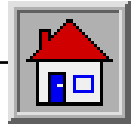
The manual in electronic format also contains the following symbol:



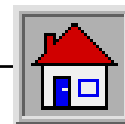
which enables the user to return to the table of contents

**GENERAL INDEX****GENERAL INDEX**

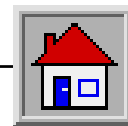
GENERAL INFORMATION	Sect.	A
SAFETY	Sect.	B
OPERATING INSTRUCTIONS	Sect.	C
MAINTENANCE	Sect.	D
TROUBLESHOOTING	Sect.	E
OPTIONAL ATTACHMENTS	Sect.	F
TABLES AND DOCUMENTS ENCLOSED	Sect.	G



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**GENERAL INFORMATION****Section A****GENERAL INFORMATION****TABLE OF CONTENTS**

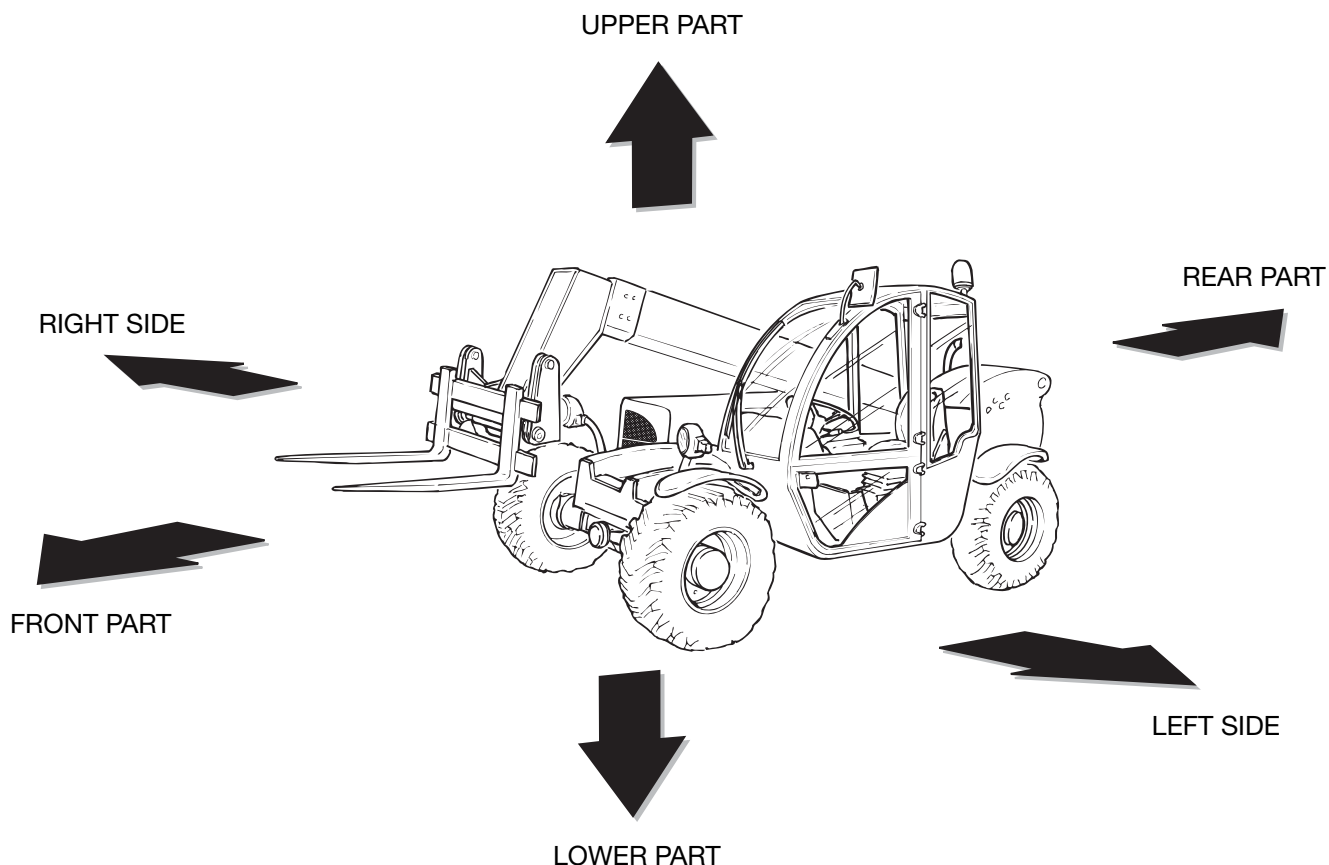
A-1	CONVENTIONAL REFERENCES	A-2
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**GENERAL INFORMATION****■ A-1 CONVENTIONAL REFERENCES****■ A-1.1 MACHINE POSITION**

Conventionally the machine should be considered positioned as shown in the figure.

This convention is necessary to make any reference of this handbook to different machine parts (front, rear, etc.) clear and unmistakable.

Any exception to this rule will always be specified.



GENERAL INFORMATION

■ A-1.2 LABELS AND WARNING PLATES APPLIED ON THE MACHINE

This paragraph lists the labels and warning plates normally applied on standard machines or on special attachments coupled to the machine.

IMPORTANT

The familiarisation with these labels is never a waste of time.

Make sure they are easy to read. For this purpose, clean them or replace those that become unreadable (either graphic or text).

To clean labels, use of a soft cloth, water and soap. Never use solvents, petrol, etc.

When a label is applied on a part to be replaced, make sure that the replaced part is already labelled as required or apply a new label.

Description:

Printed on PVC, it guides the operator through the task of learning the main functions of the handler.

Meaning:

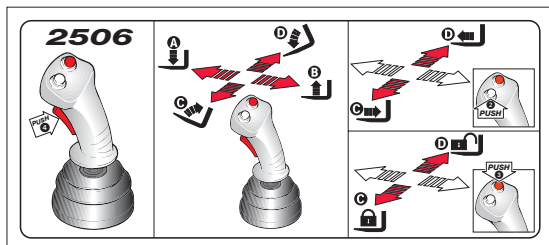
An overview of the operator's handbook concerning:

- control lever,
 - machine starting,
 - overload warning system
 - main safety precautions,
- and including the fork load charts with or without use of the outriggers.

Location:

in the cab, fixed to the upright with a magnet. Not present in the **TCE version**.

GUIDA RAPIDA PER L'USO



AVVIAMENTO DELLA MACCHINA

- Posizionare il selettore marce ed il cambio meccanico in folle.
- Inserire il freno di stazionamento e controllare che la spia sia accesa.
- Avviare il motore ruotando il commutatore di avviamento in posizione (P) e mantenerlo fino allo spegnimento della spia. Ruotarlo quindi in posizione (S) per l'avviamento del motore. Qualora, dopo circa 20 secondi, l'avviamento del motore non avesse luogo, rilasciare la chiave ed attendere circa due minuti prima di tentare un nuovo avviamento.



USO DELLE LEVE DI COMANDO

- Premere sempre il pulsante di comando intenzionale (A), prima di eseguire un comando
- Abbassamento/sollevamento del braccio azionare la leva in direzione (A) - (B)
- Brandedaggio indietro/avanti dell'attrezzo terminale azionare la leva in direzione (C) - (D)
- Richiamo/sfido del braccio telescopico premere il pulsante (E) sulla leva ed azionare la leva di comando in direzione (F)
- Blocco/sblocco attrezzi premere il pulsante (G) ed azionare la leva in direzione (H) per bloccare gli attrezzi, in direzione (I) per sbloccarli

ATTENZIONE

E' vietato utilizzare la macchina e gli accessori senza prima aver letto e compreso le norme di utilizzo e di sicurezza contenute nel manuale di istruzioni.

Il mancato rispetto delle norme di utilizzo e di sicurezza può causare pericolo grave all'operatore e a terzi. Le istruzioni sono consegnate con la macchina e copie aggiuntive possono essere richieste al rivenditore o direttamente a Terexlift. L'operatore è responsabile del rispetto delle norme sopra riportate non sollevare carichi se la macchina appoggia su terreno instabile o inclinato.

Non sollevare mai carichi superiori a quelli indicati in tabella.

Non sono ammesse manovre di sollevamento con macchina in movimento.

Prima di abbandonare il posto di manovra:

- abbassare eventuali carichi sospesi
- portare in posizione di riposo gli organi di comando del braccio
- posizionare la leva marcia avanti-indietro in folle, inserire il freno a mano e arrestare il motore.

Norme per l'utilizzo di macchine dotate di stabilizzatori E' vietato utilizzare gli stabilizzatori se il carico è già sollevato: gli stabilizzatori servono solamente ad aumentare la stabilità della macchina.

L'uso scorretto degli stabilizzatori può causare il ribaltamento della macchina.

Una apposita spia sul cruscotto indica che gli stabilizzatori sono abbassati: accertarsi che la spia sia accesa. Prima di sollevare il carico livellare la macchina controllando l'apposito indicatore di livello.

INDICATORE DI STABILITA' (ARB)

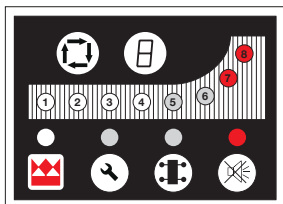
Durante il lavoro mantenere sotto controllo l'indicatore di stabilità.

Gli 8 LED indicano:

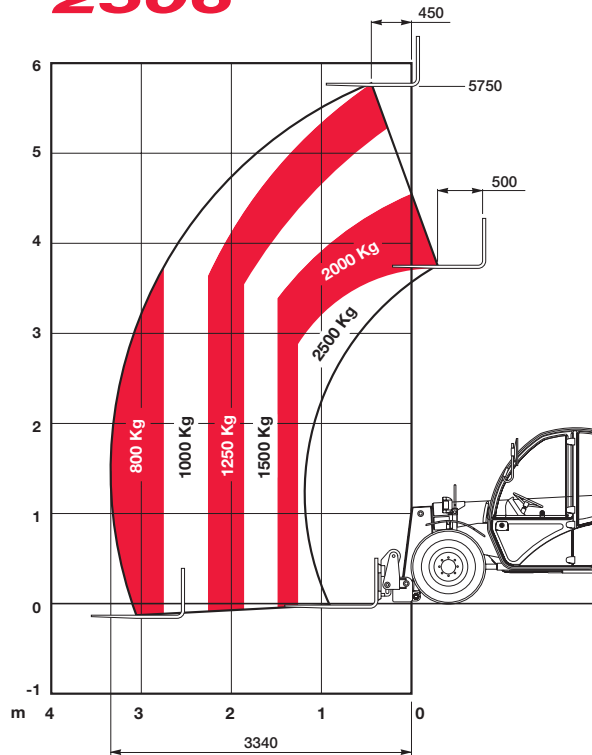
LED verdi 1-2-3-4 Macchina stabile. Spia rossa lampeggiante ed allarme acustico intermittente

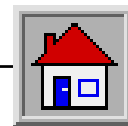
LED gialli 5-6 Macchina in allarme. Pericolo di ribaltamento. Spia rossa accesa ed allarme acustico continuo. Eseguire il rientro in condizioni di sicurezza.

LED rossi 7-8

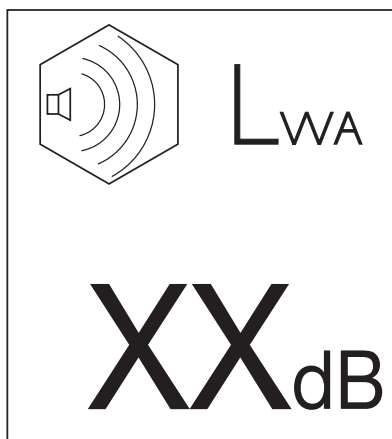


2506





GENERAL INFORMATION


Description:

label with yellow background and black inscription showing the “**Guaranteed sound power level**”.

Meaning:

it indicates the guaranteed sound power level measured in accordance with the Directive **2000/14/EC**

Location:

in the cab, on the rear left-side glass.

DANGER

ELECTRIC CABLES AND POWER LINES



KEEP EVERY PART OF THE MACHINE, LOADS AND ACCESSORIES AT LEAST 6 METERS FROM OVERHEAD POWER LINES

Description:

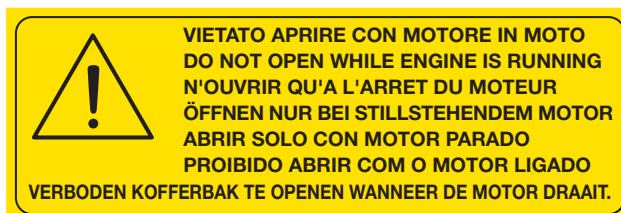
label with transparent background “**Use limits close to electric lines**”.

Meaning:

it defines the minimum distance to be kept when the machine is used close to aerial electric lines.

Location:

in the cab, on the windscreen, to the right of the driving place.


Description:

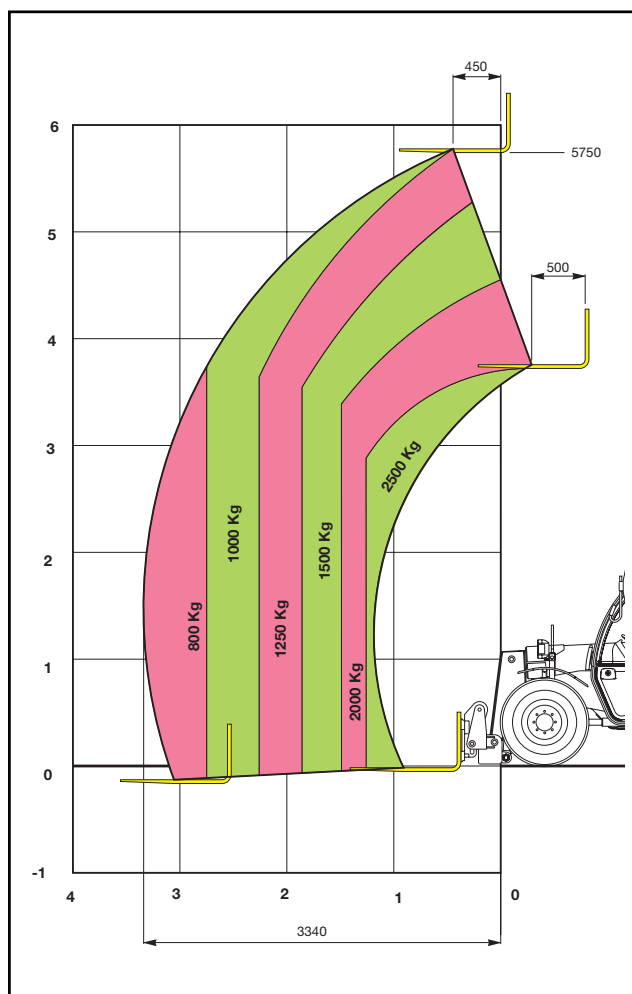
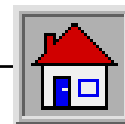
label on yellow background “**Do not open while engine is running**”.

Meaning:

do not open the engine bonnet when engine is running, since this may result in serious injury due to moving parts or hot components.

Location:

on the engine bonnet.


Description:

label with transparent background "**Load chart**".

Meaning:

it defines the exact working limits of the machine (in terms of **payload** and **reach**) to be strictly respected by the operator when using the machine.

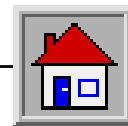
Location:

in the cab, inside the quick-guide fixed to the upright with a magnet

In the **TCE version** the label is applied on the cab glass, to the right of the driving seat.

IMPORTANT

The load charts shown in these pages are supplied as mere example. For the payload limits, see the load charts referring to the specific machine model.



GENERAL INFORMATION


Description:

red/white label "Keep out of the working range of the machine".

Meaning:

when the machine is running, entering the working range of the machine is prohibited.

Location:

on the telescopic boom, both on the right and on the left.


Description:

label with white background "Keep out of the working range of the machine".

Meaning:

when the machine is running, entering the working range of the machine is prohibited.

Location:

one on the right side in the casing of the engine compartment

one on the left side on the fuel tank


Description:

label on yellow background with black drawing "Hot surfaces. Risk of burns".

Meaning:

Applied on those surfaces which during operation can become hot and cause burns.

Location:

In all parts involved such as exhaust silencer, thermal engine, heat exchanger.


Description:

label on yellow background with black drawing

Description:

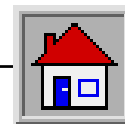
"Unscrew the plug with extreme caution: hot oil. Risk of burns!".

Meaning:

Warns the operator of the risk of burns when unscrewing the plug of the compensation tank of the heat exchanger.

Location:

on the heat exchanger.



GENERAL INFORMATION

		
WARNING	WARNING	WARNING
ONLY AUTHORIZED PERSONNEL CAN OPERATE THIS EQUIPMENT. THE MANUFACTURER/DEALER TAKE NO RESPONSABILITY FOR DAMAGE OR INJURY CAUSED BY MISUSE OF THIS EQUIPMENT. BEFORE OPERATING THE MACHINE ENSURE YOU HAVE READ AND UNDERSTOOD THE SAFETY GUIDELINES GIVEN IN THE MACHINE'S MANUAL. THE INSTRUCTIONS ARE DELIVERED WITH THE MACHINE; ADDITIONAL COPIES MAY BE OBTAINED FROM YOUR DEALER OR DIRECTLY FROM TEREXLIFT.	DO NOT RAISE BOOM ON UNSTABLE OR SLOPING GROUND. NEVER EXCEED MAXIMUM PERMITTED LOADS (SEE LOAD CHARTS). EXERCISE CAUTION WHILE USING THE BOOM IN A RAISED POSITION. BEFORE LEAVING THE CAB ENSURE THE FOLLOWING: - TRANSMISSION IS NEUTRAL. - PHAND BRAKE IS ON. - BRING ANY LOAD TO THE GROUND. - IGNITION SWITCH IS OFF AND KEY REMOVED.	SAFETY GUIDELINES FOR MACHINES EQUIPPED WITH STABILIZERS NEVER USE THE STABILIZERS IF THE LOAD IS ALREADY RAISED; THE STABILIZERS CAN BE USED ONLY TO INCREASE THE STABILITY OF THE MACHINE. MPROPER USE OF THE STABILIZERS CAN CAUSE INSTABILITY. ENSURE THAT THE STABILIZER INDICATOR LAMP IS ON BEFORE USING THE BOOM. BEFORE RAISING ANY LOAD, LEVEL THE MACHINE BY MEANS OF THE LEVEL INDICATOR.

Description:

label with transparent background "General application limits".

Meaning:

it defines the main limits to be strictly obeyed by the operator when using the machine.

Location:

Present only in the **TCE version**: within the cab, on the windscreen, to the right of the driving place.

Description:

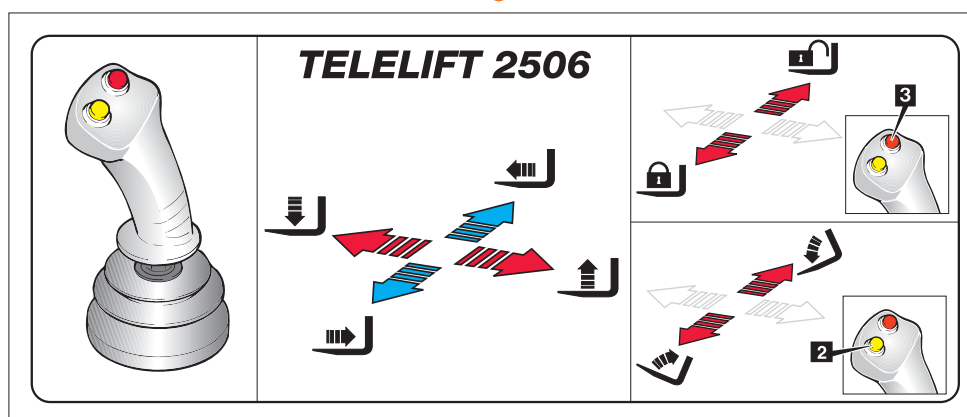
label with transparent background explaining the use of the control lever.

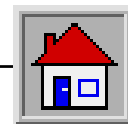
Meaning:

by means of special symbols, this label explains all pfuctions and motions of the control lever and the pushbuttons.

Location:

Present only in the **TCE version**: in the cab, on the windscreen, to the right of the driving place.




GENERAL INFORMATION
■ A-1.3 EXPLANATION OF THE DIFFERENT SYMBOLS USED ON THE MACHINE

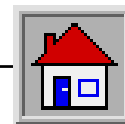
This paragraph illustrates those symbols that are normally applied on the main control devices and instruments of a standard machine, and those that can be applied on accessories or special attachments. They are mainly (ISO) standardised symbols that are now part of the common life. But we consider useful to explain them once again.

IMPORTANT

Spend the necessary time to become familiar with these symbols and to learn their meaning.

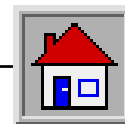
Symbol	Description
	Hazard warning lights
	Windscreen wiper
	Windscreen washer
	Cab ventilation fan
	Fuel gauge
	Hydraulic oil temperature
	Position lights
	High beam
	Turn signals
	Parking brake
	Battery charge
	Attachment pushbutton

Symbol	Description
	Steering mode switch
	Engine oil pressure
	Boom up
	Boom down
	Boom out
	Boom in
	Attachment locked
	Attachment unlocked
	Fork pitching forward
	Fork pitching back
	Oil filter clogged
	Air filter clogged
	Glow plug preheating



GENERAL INFORMATION

Symbol	Description	Symbol	Description
	Front (optional) work light		
	Road/jobsite selector switch		
	Lifting point		
	Fuel plug		
	Engine oil filler		
	Engine oil dipstick		



GENERAL INFORMATION

A-2 MACHINE IDENTIFICATION

IMPORTANT

Check that the operator handbook refers to the delivered machine.

When asking for information or technical assistance, always specify model, type and serial number of the machine.

A-2.1 MACHINE MODEL AND TYPE

Handler with telescopic boom:

- ☐ model **AGRILIFT 625**
- ☐ model **TELELIFT 2506**

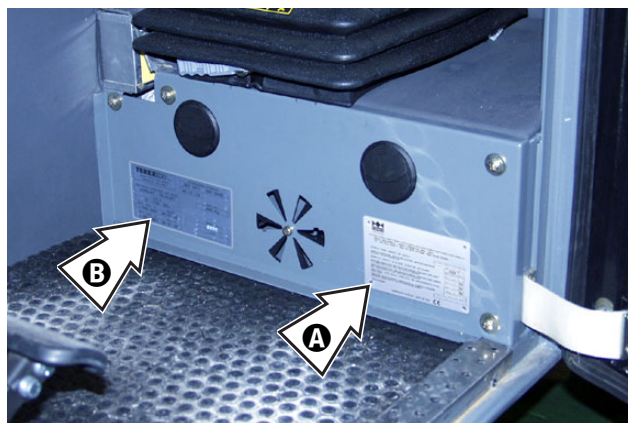


Fig. A 8

A-2.2 MANUFACTURER

TEREXLIFT srl

Zona Industriale (Ind. Estate) - I-06019 UMBERTIDE (PG) - ITALY

Enrolled in the register of companies at the Court of Perugia under no. 4823

C.C.I.A.A. n° 102886

Fiscal Code/V.A.T. no. 00249210543

TEREXLIFT s.r.l.	
TEREXLIFT srl - ZONA INDUSTRIALE - 06019 UMBERTIDE (PG) - ITALY Tel. (075) 941.811 Fax (075) 941.53.82 Telex 66106 ITALMA I	
MODELLO - MODEL - MODELE - TYP - MODELO	
ANNO DI COSTRUZIONE - YEAR OF MANUFACTURE - ANNEE DE FABRICATION BAUJAHR - AÑO DE FABRICACIÓN	200
MATRICOLA - SERIAL N. - N. DE SERIE - FZ-IDENT NR. - NO. DE SERIE	
PESO MAX ASSALE ANT. - MAX FRONT AXLE WEIGHT - POIDS MAX ESSIEU AVANT ZUL. ACHSLAST VÖ. N. ST VZO - PESO MAX EJE ANTERIOR	kg
PESO MAX ASSALE POST. - MAX REAR AXLE WEIGHT - POIDS MAX ESSIEU ARRIERE ZUL. ACHSLAST HL. N. ST VZO - PESO MAX EJE POSTERIOR	kg
PESO TOTALE - TOTAL WEIGHT - POIDS TOTAL - ZUL. GESAMTGEWICHT N. ST VZO PESO TOTAL	kg
MATRICOLA MOTORE TERMICO - ENGINE SERIAL N. - N. MOTEUR THERMIQUE FABRIK NR. DIESEL MOTOR - NO. DE SERIE MOTOR TERMICO	
OMOLOGAZIONE	
FABBRICATO IN ITALIA - MADE IN ITALY 	

Fig. A 9

A-2.3 MACHINE IDENTIFICATION PLATES

Three identification plates are applied on the machine. They are:

A Machine data plate.

Placed on the driving seat base in a well visible position when opening the cab door (Fig. A8) or instead of the road traffic data plate (Fig. A10) on machines destined for foreign markets.

The identification plate (Fig. A9) contains the main identification data of the machine like model, serial number and year of manufacture.

B ROPS-FOPS cab type-approval plate.

Placed on the driving seat base in a well visible position when opening the cab door (Fig. A8).

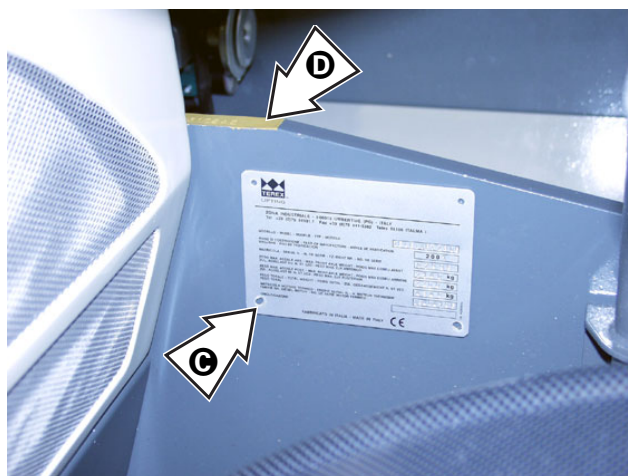
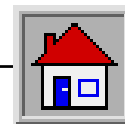


Fig. A10



GENERAL INFORMATION

Ⓒ Road traffic data plate.

Placed on the front right side of the chassis (only for machines destined for the Italian market). This plate contains the road traffic related data and the weights of the specific machine model (Fig. A11).

DATI OMOLOGAZIONE STRADALE				
TIPO				
OMOLOGAZIONE				
NUMERO DI IDENTIFICAZIONE				
MASSA TOTALE AMMISSIBILE (*)	da	kg	a	kg
CARICO MAX ASSE ANTERIORE (*)	da	kg	a	kg
CARICO MAX ASSE POSTERIORE (*) (*) In funzione della gomma	da	kg	a	kg
MASSA RIMORCHIABILE AMMISSIBILE:				
- MASSA NON FRENATA				kg
- MASSA CON FRENATURA INDIPENDENTE				kg
- MASSA CON FRENATURA AD INERZIA				kg
- MASSA CON FRENATURA ASSISTITA				kg
COEFFICIENTE DI ASSORBIMENTO CORRETTO DEL MOTORE				m ⁻¹

TEREXLIFT s.r.l. Zona Industriale, I-06019 Umbertide (PG) - Italy
Tel. +39 (0)75 941811 - Fax +39 (0)75 9415382

Fig. A11

■ A-2.4 CE MARK

This machine fulfils the safety requirements of the Machinery Directive. The conformity has been certified and the placing of the **CE** marking on the machine demonstrates compliance with the regulatory requirements.

The **CE** marking is placed directly on the identification plate of the machine. (Ⓐ Fig. A8 and A9).

■ A-2.5 CHASSIS SERIAL NUMBER

The chassis serial number is punched on the front left part of the chassis side member (Ⓓ Fig. A10).

■ A-2.6 IDENTIFICATION PLATES OF THE MAIN PARTS

The plates of the main components, not directly manufactured by **TEREXLIFT srl** (for instance, engines, pumps, etc.), are located where originally applied by the manufacturers.

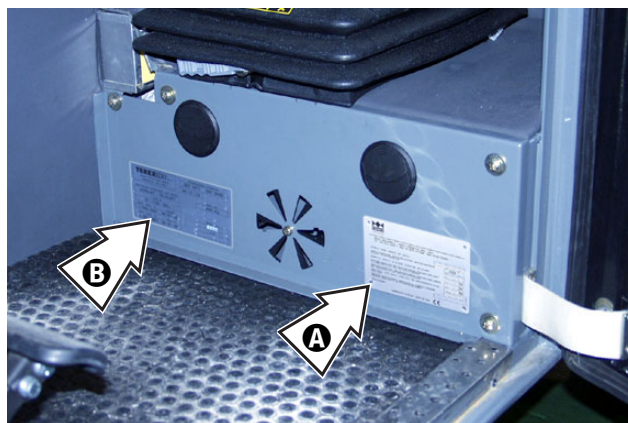


Fig. A 8

TEREXLIFT s.r.l.	
TEREXLIFT srl - ZONA INDUSTRIALE - 06019 UMBERTIDE (PG) - ITALY Tel. (075) 941.811 Fax (075) 941.53.82 Telex 66106 ITALMA I	
MODELLO - MODEL - MODELE - TYP - MODELO	
ANNO DI COSTRUZIONE - YEAR OF MANUFACTURE - ANNEE DE FABRICATION BAUJAHR - AÑO DE FABRICACIÓN	200
MATRICOLA - SERIAL N. - N. DE SERIE - FZ-IDENT NR. - NO. DE SERIE	
PESO MAX ASSALE ANT. - MAX FRONT AXLE WEIGHT - POIDS MAX ESSIEU AVANT ZUL. ACHSLAST VO. N. ST VZO - PESO MAX EJE ANTERIOR	kg
PESO MAX ASSALE POST. - MAX REAR AXLE WEIGHT - POIDS MAX ESSIEU ARRIERE ZUL. ACHSLAST HI. N. ST VZO - PESO MAX EJE POSTERIOR	kg
PESO TOTALE - TOTAL WEIGHT - POIDS TOTAL - ZUL. GESAMTGEWICHT N. ST VZO PESO TOTAL	kg
MATRICOLA MOTORE TERMICO - ENGINE SERIAL N. - N. MOTEUR THERMIQUE FABRIK NR. DIESEL MOTOR - NO. DE SERIE MOTOR TERMICO	
OMOLOGAZIONE	
FABBRICATO IN ITALIA - MADE IN ITALY CE	

Fig. A 9

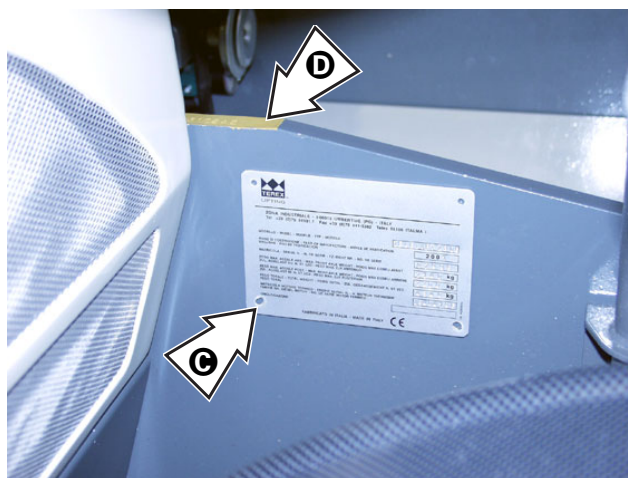
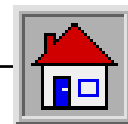


Fig. A10



GENERAL INFORMATION

■ A-3 ALLOWED USE

■ A-3.1 ALLOWED USE

The handlers have been designed and manufactured for lifting, handling and transporting agricultural or industrial products by means of specific attachments (see section F) manufactured by TEREXLIFT srl.

Any other use is considered contrary to that established and, therefore, improper.

The compliance with and the strict respect of the operation, maintenance and repair conditions, indicated by the Manufacturer, represent an essential part of the allowed use.

The handler must be used and serviced only by operators knowing its characteristics and the safety procedures in depth.

It is also essential to comply with the safety at work legislation, the precautions concerning safety and industrial medicine as well as the local and national road traffic regulations.

IMPORTANT

Effecting changes or carrying out interventions on the machine other than those of routine maintenance is expressly forbidden. Any modification of the machine not carried out by TEREXLIFT or an authorised assistance centre involves the automatic invalidation of the conformity of the machine to the Directive 98/37/EC.

■ A-3.2 IMPROPER USE

Improper use means a utilisation of the handler following working criteria that do not comply with the instructions of this manual, and that, in general, may result in risks for both operators and bystanders.



DANGER

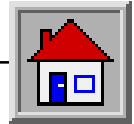
We list below some of the most frequent and hazardous situations of improper use:

- ***Carrying passengers on the machine***
- ***Not strictly complying with the operation and maintenance instructions of this handbook***
- ***Working beyond the handler working limits***
- ***Working on unstable edges of ditches***
- ***Driving crosswise on slopes or hills***
- ***Working during a storm***
- ***Working on steep slopes***
- ***Using attachments other than those recommended***
- ***Using attachments not approved or directly manufactured by Terexlift***
- ***Working in potentially explosive areas***
- ***Working in confined and non-ventilated environments.***

■ A-3.3 RESIDUAL HAZARDS

Although the machine has been designed and manufactured according to the latest technology and all expected hazards have been eliminated, some operations performed by the machine operator can result in potentially hazardous situations. Among them:

- Hazards deriving from a too high work or transfer speed in relation to the load handled or the ground condition of the jobsite.
- Hazards deriving from work procedures adopted during the check or replacement of a block valve (residual pressure - uncontrolled movements).
- Hazards deriving from work procedures adopted while disassembling parts of the machine -e.g. the cylinders, without supporting mobile parts suitably (risk of uncontrolled fall of the mobile part).
- Hazard deriving from an accidental overturning of the machine in the event the operator has not fastened the safety belts.

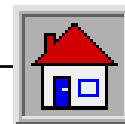
**GENERAL INFORMATION****■ A-3.4 APPLICABLE STANDARDS**

For the operator's safety, the following standards were obeyed during the risk assessment of the handler fitted with telescopic boom:

Directive	Title
98/37/CE	Machinery Directive
89/336/CEE	Electromagnetic compatibility
2000/14/CE	Environment Acoustic Emissions

Standard	Title
EN 1459:1988	Harmonised standard. Safety of industrial trucks - Self- propelled variable reach trucks.
EN 281:1988	Self-propelled industrial trucks sit- down rider-controlled. Rules for the construction and layout of pedals.
EN 1175-2:1998	Electrical requirements - General requirements of internal combustion engine powered trucks
prEN ISO 13564:1996	Test method for measuring visibility from self-propelled trucks.
ISO 2330:1995	Fork-lift trucks - Fork arms - Technical characteristics and testing.
ISO/DIS 3287	Powered industrial trucks. Pictorial signs. Control symbols.
ISO 3449:1992	Earth-moving machinery - Falling-object protective structures - Laboratory tests and performance requirements.
EN 13510: 2002	Earth-moving machinery - Roll-over protective structures - Laboratory tests and performance requirements.
ISO 3776:1989	Tractors for agriculture - Seat belt anchorages.
ISO 3795:1989	Road vehicles, tractors and machinery for agriculture and forestry - Determination of burning behaviour of interior materials.
ISO 5053:1987	Powered industrial trucks - Terminology.
ISO 6292:1996	Powered industrial trucks and tractors - Brake performance and component strength.
EN 13059:2002	Safety of industrial trucks - Test methods for measuring vibration

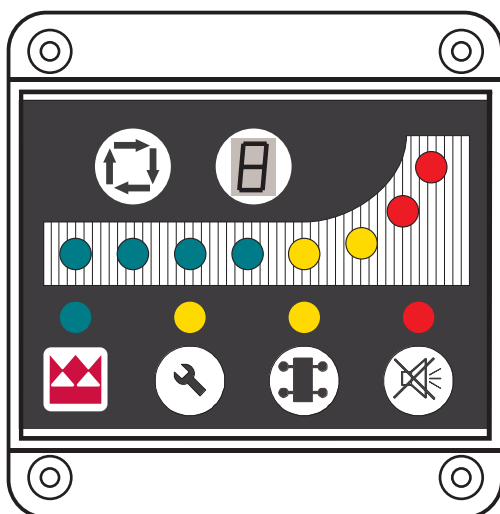
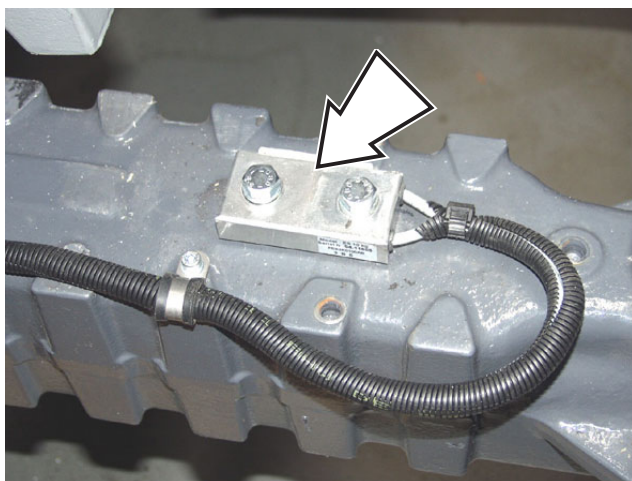
EN 50081-1: 1997	Electromagnetic compatibility – Generic requirements on emissions - Part 1
EN 50082-1: 1997	Electromagnetic compatibility – Generic requirements on immunity - Part 1
EN 60204-1:1998	Safety of machinery - Electrical equipment of machines - Part 1



GENERAL INFORMATION

■ A-3.5 SAFETY DEVICES

- Load limiting device. A load cell is fitted to the rear axle. The cab display with 8 LED's (4 green, 2 yellow and 2 red) lets you estimate the variation of stability of the machine.



- Presence micro-switch in the driving seat *(only in the TCE version)*
Located inside the seat cushion, it prevents any machine starting if the operator is not correctly seated in the driving seat.

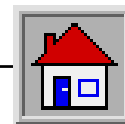


- Emergency stop pushbutton: when pressed down, it stops the engine and blocks the movements of the machine.

Before starting work again, find and rectify the causes which compelled to an emergency stop, then reset the button to neutral position pressing it down while turning clockwise.

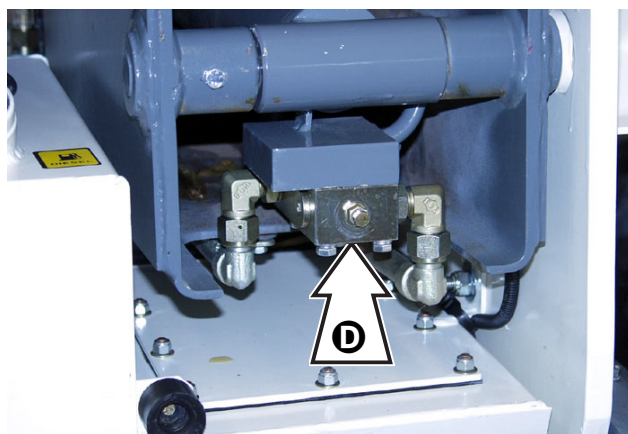
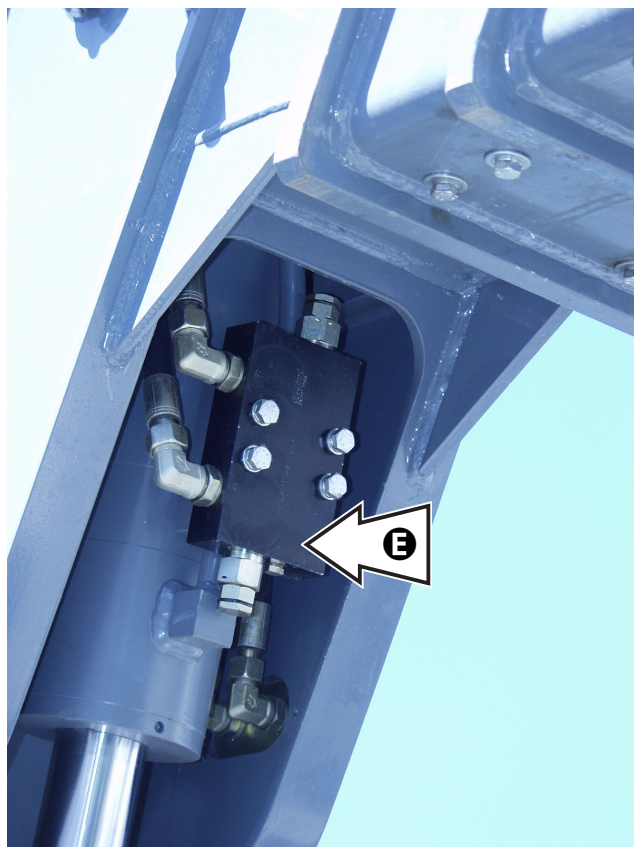
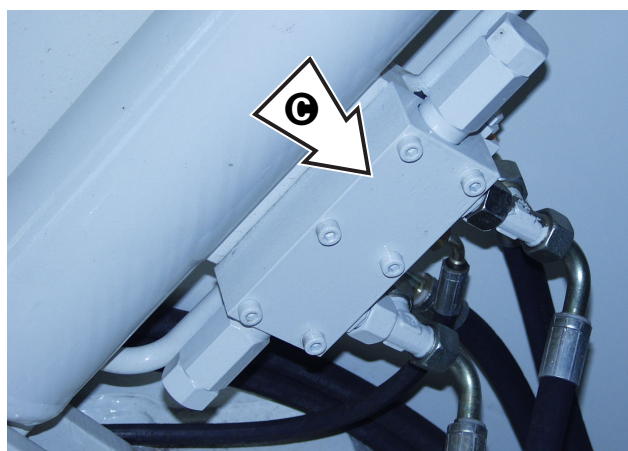
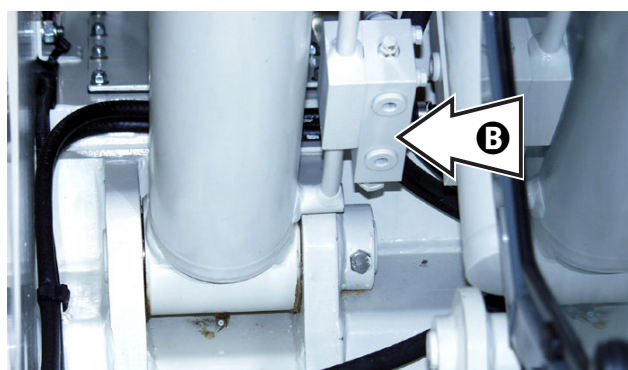
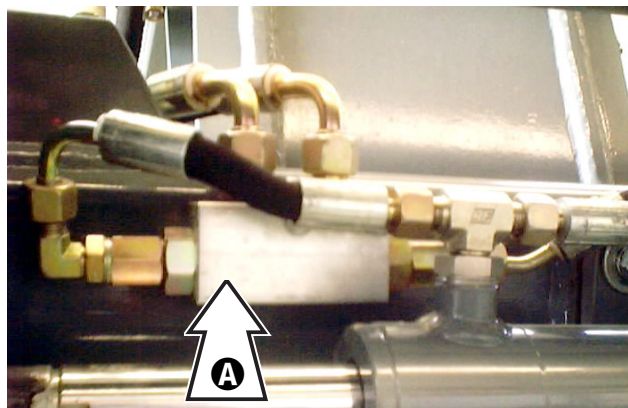
- Safety pushbutton on joystick (dead man button). *(Not present in the TCE version)*
This button must be pressed and held down while executing a function with the control lever. If the button is released, the movement in progress will be blocked.

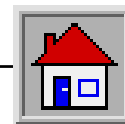


**GENERAL INFORMATION**

- **Block valves fitted to all cylinders:**

- A** Block valve on attachment coupling cylinder
- B** Block valve on lifting cylinder
- C** Block valve on balance cylinder
- D** Block valve on boom extension cylinder
- E** Block valve on attachment pitching cylinder

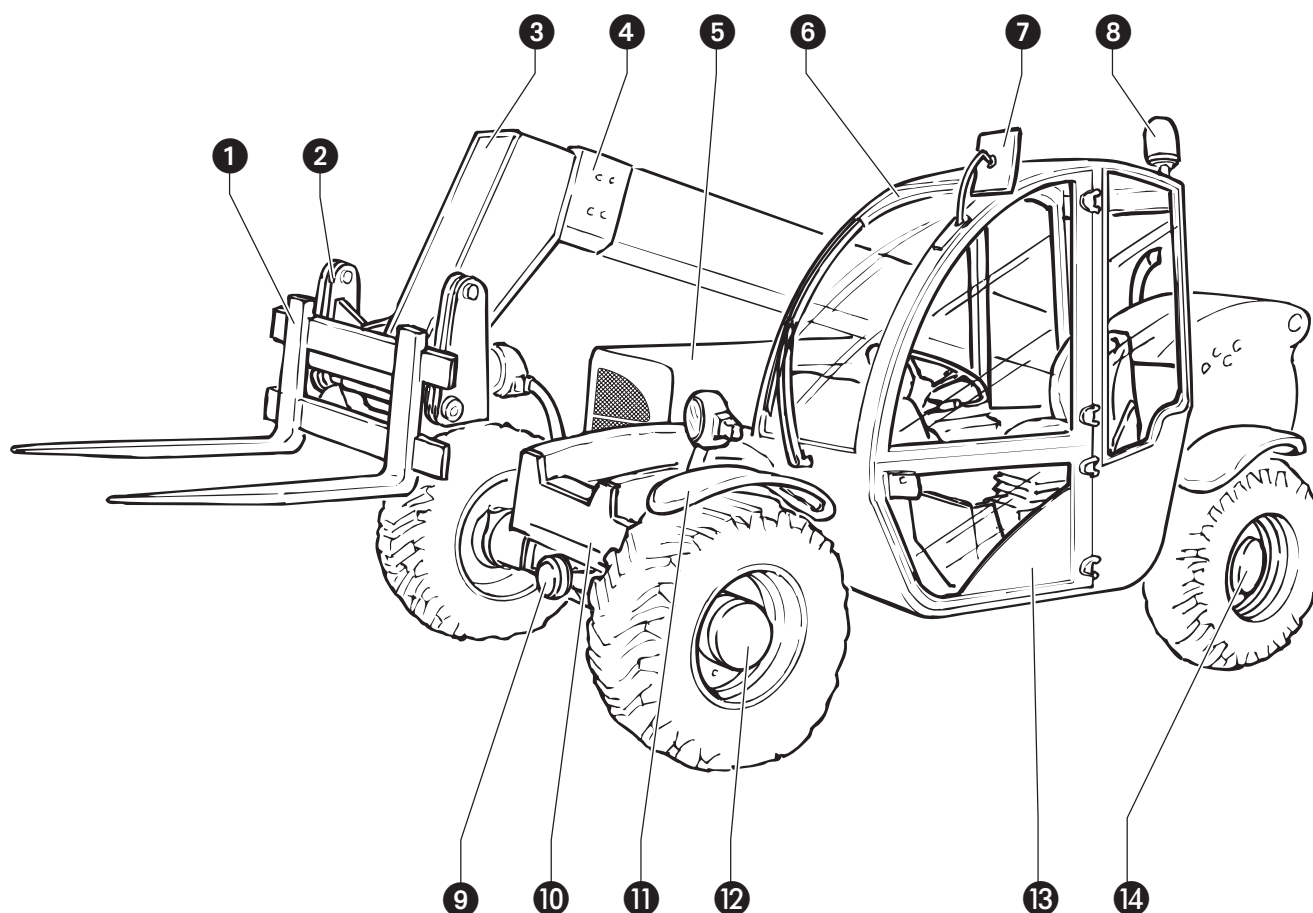




GENERAL INFORMATION

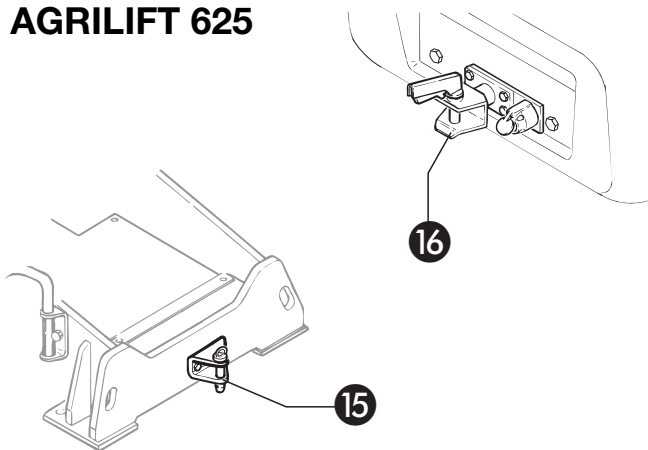
A-4 GENERAL DESCRIPTION

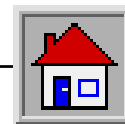
A-4.1 LIST OF THE MAIN COMPONENTS



- 1 - Forks
- 2 - Attachment holding frame
- 3 - 2nd boom section
- 4 - 1st boom section
- 5 - Engine hood
- 6 - Driving cab according to ROPS-FOPS provisions
- 7 - Left rear view mirror
- 8 - Beacon
- 9 - Front axle
- 10 - Chassis
- 11 - Left front wheel mud-guard
- 12 - Left front wheel reduction gear
- 13 - Access door
- 14 - Left rear wheel reduction gear
- 15 - Front towing hitch (Agrilift 625)
- 16 - Rear towing hitch (Agrilift 625)

AGRILIFT 625





GENERAL INFORMATION

■ A-4.2 DESCRIPTION OF THE MAIN COMPONENTS

Hydrostatic transmission

This unit consists of parts which drive the machine shifting, and namely:

- a variable displacement pump connected to the thermal engine by an elastic joint
- a motor with variable displacement and automatic adjustment in relation to the wheel torque required, complete with power divider, directly applied on the rear axle
- a hydraulic oil filter, placed on the discharge line to the tank
- a heat exchanger to cool the circuit down.

Motion is transmitted to the rear axle from the power divider through a Cardan shaft.

Engine

The thermal engine is equipped with a heat exchanger which uses the engine oil as cooling medium.

Steering axles/(front and rear) differential gears

The differential axles transmit the motion to the wheels. The locking device acting on the front axle enables the machine to move also on low grip grounds.

Tyres

The machine is equipped with tyres suitably sized for the maximum load allowed on the handler.

When worn, they shall be replaced with new ones having the same dimensions and loading capacity.

Overload warning system

The overload warning system installed on the vehicle enables the operator to work in safety conditions. A display with 6 LED's shows the stability variation. When the 6th red LED comes on, the machine movements are blocked, except for the boom retraction under safe conditions.

Boom hydraulic circuit

It consists of a gear pump connected to the thermal engine which, through a special valve, dispenses oil to the hydraulic drive and a distributor for the following functions:

- boom lifting/lowering
- telescopic boom extension/retraction
- attachment rotation
- attachment locking

Braking circuit

It consists of an independent circuit: the pedal directly acts on the brake pump which dispenses oil to the front axle braking unit with discs in oil bath.

The parking brake, of negative type, acts on the braking unit of the service brake. This brake is engaged every time the handler's engine is stopped or pressing down the light pushbutton located to the right of the driving place.

Telescopic boom

The machine is equipped with a telescopic boom with hydraulic-driven extension. The telescopes slides on interchangeable pads made of wearproof material.

Driving cab

Type-approved driving cab in compliance with standards ISO 3449 and EN 13510 (ROPS and FOPS).

Towing hitch (only Agrilift 625 version)

The machine is equipped with two towing hitches:

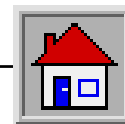
- one at the front, to be used in an emergency, for towing the disabled machine
- one at the rear for towing trailers or carts.

■ A-4.3 OPTIONAL ACCESSORIES

The machine can be fitted with a wide range of optional accessories: please address to **Terexlift** sales network.

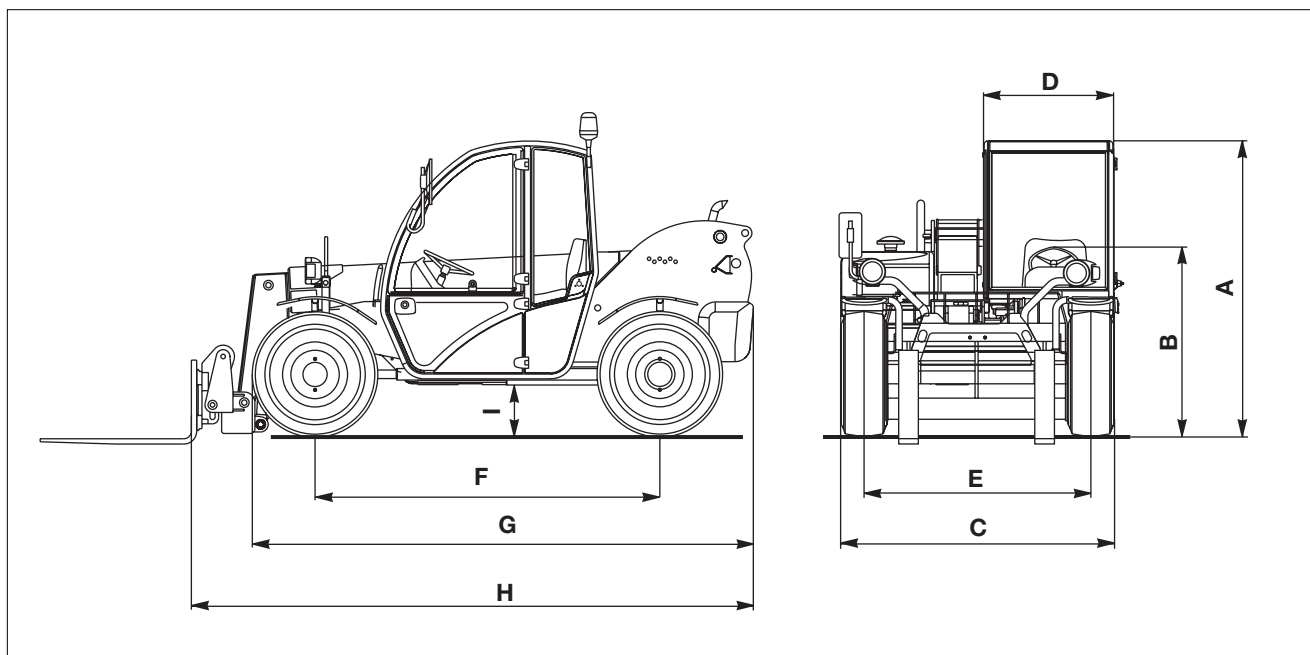
IMPORTANT

Please check the accessories available for your machine.



GENERAL INFORMATION

A-5 TECHNICAL DATA AND PERFORMANCE



A-5.1 MAIN DIMENSIONS

**Agrilift 625
Telelift 2506**

A	Overall height	mm	1920
B	Height to the steering wheel	mm	1230
C	Overall width	mm	1800
D	Cab width	mm	860
E	Track	mm	1500
F	Wheel-base	mm	2280
G	Length to the front tyres	mm	3310
H	Length to the attachment holding plate	mm	3720
I	Ground clearance	mm	360
•	Internal steering radius	mm	1730
•	External steering radius	mm	3400

A-5.2 RESTRICTIONS OF USE

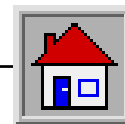
•	Angle of approach		90°
•	Departure angle		70°
•	Ambient temperature	°C	-20°/+40°

A-5.3 WEIGHT

•	Weight in working order	kg	4470
---	-------------------------	----	------

A-5.4 SPEED

-	Travel speed	km/h	23
-	Max. slope with full load		60%


GENERAL INFORMATION
■ A-5.5 PAYLOAD AND REACH
**Telelift 2506
Agrilift 625**

- Max lifting height	mm	5750
- Reach at max height	mm	450
- Max reach forward	mm	3340
- Attachment holding plate rotation		135°
- Maximum payload	kg	2500
- Payload at max height	kg	1250
- Payload at max reach	kg	800

■ A-5.6 FORKS

		Fixed type	Floating type
- Dimensions	mm	1200x100x35	1200x100x40
- Weight	kg	45+45	52+52
- Fork holding frame - class		FEM II A	FEM II A

■ A-5.7 DIESEL ENGINE
Aspirated version

- Make		DEUTZ AG
- Model/Type		F4M 2011
- Features:		Diesel
		4 cylinders in line
		4 strokes
		direct injection
- Bore x Stroke	mm	94 x 112
- Total displacement	cc	3108
- Power at 2600 rpm (ISO 3046 IFN)	kW	46,5

■ A-5.8 ELECTRICAL SYSTEM

- Voltage	V	12
- Battery	Ah	100

■ A-5.9 MACHINE SOUND LEVELS

- Guaranteed sound power level (in accordance with the Directive 2000/14/CE)	dB	Lwa =	103
- Measured sound pressure level (in accordance with the Directive 98/37/CE)	dB	Lpa =	

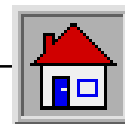
■ A-5.10 VIBRATION LEVELS

- Mean assessed vibration level transmitted to arms	m/s ²	< 2.5
- Mean assessed vibration level transmitted to body	m/s ²	< 0.5

Values calculated in accordance with standard prEN13059

IMPORTANT

This is a device of Class A. In a residential environment, such device can cause radio disturbance. In such cases, the operator is required to take suitable measures.



GENERAL INFORMATION

■ A-6 LIFETIME

The lifetime of the machine is 10 000 hours provided all checks, service jobs and overhauls are done at the times scheduled.



After this time, the machine must compulsorily be inspected and tested by the Manufacturer before being used again.

■ A-7 ITEMS SUPPLIED

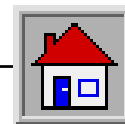
Following items are supplied together with the machine:

<i>Description</i>	625	2506
- Spanner CH 19 (for fork positioning)	X	X
- Allen wrench CH 6 (for fork positioning)	X	X
- 12 V lamps (spare)	X	X

■ A-7.1 LITERATURE SUPPLIED

The machines comes with the following literature:

- Machine operator's handbook
- DEUTZ engine use and maintenance manual

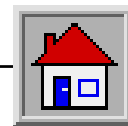


Section *B*

SAFETY

TABLE OF CONTENTS

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SAFETY

■ B-1 GENERAL REMARKS

Most accidents occurring while working, repairing or maintaining operation machines, are caused by not complying with the basic safety precautions.

Therefore, it is necessary to pay steady attention to the potential hazards and the effects that may come of operations carried out on the machine.

IMPORTANT

If you recognise hazardous situations, you can prevent accidents!

For instance, this handbook makes use of special **safety symbols** to stress any potentially hazardous situation.



CAUTION

The instructions given in this handbook are the ones established by TEREXLIFT. They do not exclude other safe and most convenient ways for the machine installation, operation and maintenance that take into account the available spaces and means.

If you decide to follow instructions other than those given in this manual, you shall absolutely:

- be sure that the operations you are going to carry out are not explicitly forbidden;
- be sure that the methods are safe, say, in compliance with the rules and provisions given in this section;
- be sure that the methods cannot damage the machine directly or indirectly or make it unsafe;
- contact TEREXLIFT Assistance Service for any suggestion and the necessary written permission.

IMPORTANT

If in doubt, it is always better to ask! For this purpose, contact TEREXLIFT: the assistance service is at your disposal. Addresses, phone and fax numbers are given in the cover and in the title-page of this manual.

■ B-2 REQUISITES OF THE PERSONNEL IN CHARGE

■ B-2.1 REQUISITES OF THE MACHINE OPERATORS

The operators who use the machine regularly or occasionally (i.e. for transport reasons) shall have the following prerequisites:

health:

before and during any operation, operators shall never take alcoholic beverages, medicines or other substances that may alter their psycho-physical conditions and, consequently, their working abilities.

physical:

good eyesight, acute hearing, good co-ordination and ability to carry out all required operations in a safe way, according to the instructions of this manual.

mental:

ability to understand and apply the enforced rules, regulations and safety precautions. They shall be careful and sensible for their own as well as for the others' safety and shall desire to carry out the work correctly and in a responsible way.

emotional:

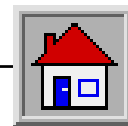
they shall keep calm and always be able to evaluate their own physical and mental conditions.

training:

they shall read and familiarise with this handbook, its enclosed graphs and diagrams, the identification and hazard warning plates. They shall be skilled and trained about the machine use.

IMPORTANT

The operator shall have a licence (or a driving licence) when provided for by the laws enforced in the country where the machine works. Please, ask the competent bodies. In Italy the operator must be at least 18 year old.



SAFETY

■ B-2.2 REQUISITES OF THE SERVICEMEN

The personnel charged with the machine maintenance shall be qualified, specialised in the maintenance of earth-moving machines, and shall have the following prerequisites:

physical:

good eyesight, acute hearing, good co-ordination and ability to carry out all required maintenance operations in a safe way, according to this manual.

mental:

ability to understand and apply the enforced rules, regulations and safety precautions. They shall be careful and sensible for their own as well as for the others' safety and shall desire to carry out the work correctly and in a responsible way

training:

they shall read and familiarise with this handbook, its enclosed graphs and diagrams, the identification and warning plates. They shall be skilled and trained about the machine functioning.

■ B-2.4 PERSONAL PROTECTIVE EQUIPMENT

Under special working conditions, the following personal protective equipment should be used:

- Breathing set (or dust mask).
- Ear-protectors or equivalent equipment.
- Goggles or facial masks.

IMPORTANT

Use only type-approved protective equipment in good condition.

IMPORTANT

From a technical point of view, the ordinary maintenance of the machine is not a complex intervention and can be carried out by the machine operator, too, provided he has a basic knowledge of mechanics.

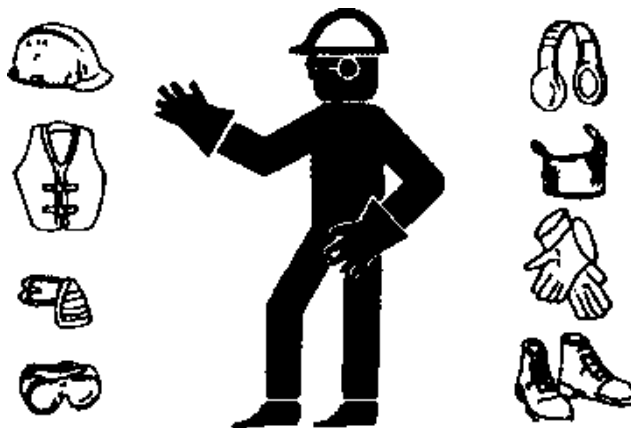
■ B-2.3 WORKING CLOTHES

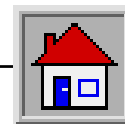
During work, but especially when maintaining or repairing the machine, operators must wear suitable protective clothing:

- Overalls or any other comfortable garments. Operators should wear neither clothes with large sleeves nor objects that can get stuck in moving parts of the machine.
- Protective helmet.
- Protective gloves.
- Working shoes.

IMPORTANT

Use only type-approved working clothing in good condition.





SAFETY

B-3 SAFETY PRECAUTIONS

B-3.1 JOB SITE

Always take into account the features of the job site where you are going to work:

- Always examine the working area and compare it with the machine dimensions in the different configurations.

- Look for the best route to the job site.
- When the machine is running, nobody can enter its working range.
- While working, keep the working area in order. Never leave objects scattered: they could hinder the machine movements and represent a danger for personnel.



Pay the greatest attention to overhead electric lines.

Always keep at a minimum safe distance from the telescopic boom and the lifted load. Electrical hazards!



Do not at any time use the machine during a storm.

DANGER

DEATH OR INJURY CAN RESULT FROM CONTACTING ELECTRIC POWER LINES.

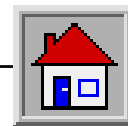
ALWAYS CONTACT THE ELECTRIC POWER LINES OWNER. THE ELECTRIC POWER SHALL BE DISCONNECTED OR THE POWER LINES MOVED OR INSULATED BEFORE MACHINE OPERATIONS BEGIN

POWER LINE VOLTAGE		REQUIRED CLEARANCE	
0	a 50 kV	10 ft	3.00 m
50	a 200 kV	15 ft	4.60 m
200	a 350 kV	20 ft	6.10 m
350	a 500 kV	25 ft	7.62 m
500	a 750 kV	35 ft	10.67 m
750	a 1000 kV	45 ft	13.72 m



Make sure the machine (wheels and stabilisers) rests on a firm ground to prevent hazardous unstable conditions.

If the ground is not firm enough, position some supporting planks under the stabilisers or the wheels. These plates must grant a specific pressure of 1.2 to 1.5 kg/cm² (500x500mm plates are sufficient).



SAFETY

■ B-3.2 GETTING READY TO WORK

Before any operation, following precautions should be taken:

- First of all, make sure that the maintenance interventions have been carried out with care according to the established schedule (see section **D - Maintenance**).



Set the machine to working configuration and sway it. Use the special inclinometer to the right of the driving place to check that the machine is level before operating it.

- Ensure you have enough fuel to avoid a sudden stop of the engine, especially during a crucial manoeuvre.
- Clean instruments, data plates, lights and the cab windscreen thoroughly.
- Check the correct functioning of all the safety devices installed on the machine and in the job site.
- In case of troubles or difficulties, inform the foreman at once. Never start working under unsafe conditions.
- Do not carry out any repair work in a makeshift way to start working!

■ B-3.3 DURING WORK OR MAINTENANCE

During work, and especially maintenance, always pay the greatest attention:

- Do not walk or stop under raised loads or machine parts supported by hydraulic cylinders or ropes only.
- Keep the machine handholds and access steps always clean from oil, grease or dirt to prevent falls or slips.



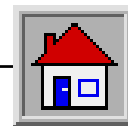
- When entering/leaving the cab or other raised parts, always face the machine; never turn the back.
- When carrying out operations at hazardous heights (over **1.5 meters** from the ground), always use type-approved safety belts or fall preventing devices.



- Do not enter/leave the machine while it is running.
- Do not leave the driving place when the machine is running.
- Neither stop nor carry out interventions under or between the machine wheels when engine is running. When maintenance in this area is required, stop the engine.



- Do not carry out maintenance or repair works without a sufficient lighting.
- When using the machine lights, the beam should be oriented in order not to blind the personnel at work.
- Before applying voltage to electric cables or components, check their connection and proper functioning.
- Do not carry out interventions on electric components with voltage over **48V**.
- Do not connect wet plugs or sockets.
- Plates and hazard warning stickers shall never be removed, hidden or become unreadable.



SAFETY

- Except for maintenance purposes, do not remove safety devices, shields, protection cases, etc. Should their removal be necessary, stop the engine, remove them with the greatest care and always remember to refit them before starting the engine and using the machine again.
- Before any maintenance or repair work, stop the engine and disconnect the batteries.
- Do not lubricate, clean or adjust moving parts.
- Do not carry out operations manually when specific tools are provided for this purpose.
- Absolutely avoid to use tools in bad conditions or in an improper way i.e. pliers instead of adjustable wrenches, etc.
- Before carrying out operations on hydraulic lines under pressure or disconnecting hydraulic components, ensure the relevant line has been previously depressurised and does not contain any hot fluid.



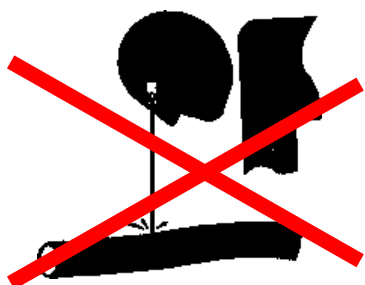
DANGER

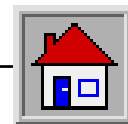
Any intervention on the hydraulic circuit must be carried out by authorised personnel.

The hydraulic circuit of this machine is fitted with pressure accumulators. You and others could be seriously injured if accumulators are not completely depressurised.

For this purpose, shut the engine down and step on the brake pedal 8÷10 times.

- Neither smoke nor use open flames in areas subject to fire dangers and in presence of fuel, oil or batteries.



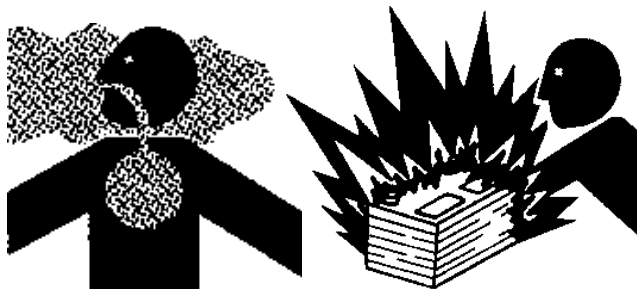


SAFETY

- Do not leave fuel cans or bottles in unsuitable places.
- Do not empty catalytic mufflers or other vessels containing burning materials without taking the necessary precautions.
- Carefully handle all flammable or dangerous substances.



- Do not tamper with fire-extinguishers or pressure accumulators: **explosion hazard!**
- After any maintenance or repair work, make sure that no tool, cloth or other object has been left within machine compartments, fitted with moving parts, or where suction and cooling air circulates.
- When working, do not give instructions or signs to several people at the same time. Instructions and signs must be given by one person only.
- Always pay the due attention to the instructions given by the foreman.
- Never distract the operator during working phases or crucial manoeuvres.
- Do not call an operator suddenly, if unnecessary.
- Do not frighten an operator or throw objects by no means.
- After work, never leave the machine under potentially dangerous conditions.



■ B-4 SAFETY DEVICES



DANGER

Several safety devices have been fitted to the machine. They must never be tampered with or removed (see chap. A-3.5).

Regularly check the efficiency of such devices (see check card, chap. G-5).

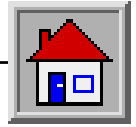
In case of faults, stop working immediately and proceed in replacing the defective device.

For the checking procedures, read chap. D-3.15.

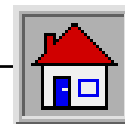
■ B-5 LOAD LIMITING SYSTEM

The load limiting system has been developed to help use the machine in safety conditions and alerting with visual and sound messages when the machine is nearing a danger zone.

However this device cannot replace the experience of the Operator. It is up to the user to adopt the necessary safety measures to work in safety conditions.



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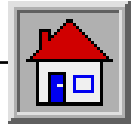
OPERATING INSTRUCTIONS

Section C

OPERATING INSTRUCTIONS

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**OPERATING INSTRUCTIONS****INTRODUCTION**

This section provides the operator a practical guide for the gradual learning of the machine use.

The operator should get into the driving cab and carry out the preliminary adjustments, then memorise the position of the different controls and instruments.

The familiarisation with the controls ensures not only a correct use during the working phases, but also a prompt and timely intervention of the operator, when he shall carry out sudden manoeuvres to safeguard his safety and the machine integrity.

It is necessary to learn how to use and foresee the machine reactions. Learn how to operate the machine controls in a safe and open place, without obstacles and anybody standing around. Do not ram the controls. Operate them slowly to understand their effect on the machine.

C-1 BEFORE ENTERING THE MACHINE**Checks and cleaning**

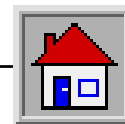
- Clean glasses, lights and rear view mirrors.
- Check that pins, joints and bolts are well tightened in position.
- Check for oil, fuel or coolant leaks.

Checking the tyres

- Check the correct inflation of the tyres; see par. **"Tyre inflation"** in the Maintenance section.
- Make sure that the tyre plies are not cut or worn.

**DANGER**

A tyre burst may result in serious injury; never use the machine if tyres are worn, wrongly inflated or damaged.



OPERATING INSTRUCTIONS

C-2 ENTERING THE MACHINE

C-2.1 ENTERING THE CAB



CAUTION

Always make sure that your hands and shoe soles are clean and dry before getting into the driving cab. Always face the machine when entering and leaving it and hold to the suitable handles.

The handler cab is equipped with an access door on the left-hand side.

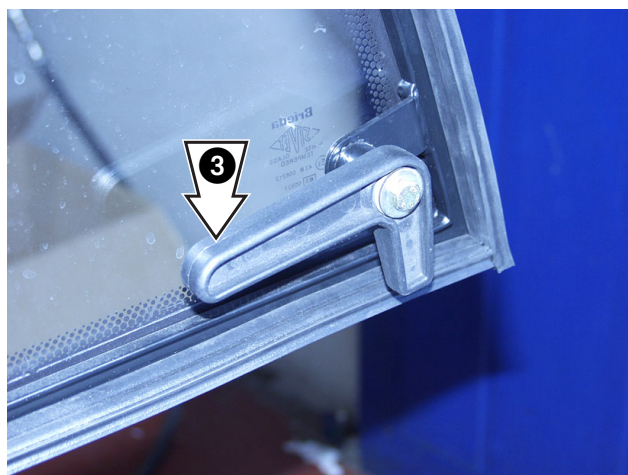
Door opening from outside:

- Insert the key and release lock 1.
- Press the pushbutton and open the door.



CAUTION

The upper section of the door must be secured to the rear part of the driving cab or latched to the lower section of the same door.



Door closing from inside:

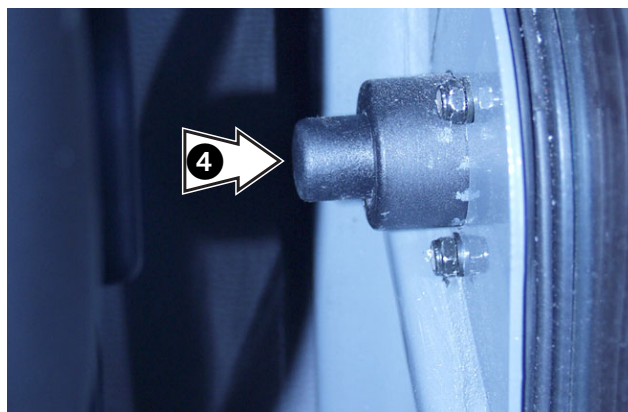
- Pull the door with force: it locks automatically.

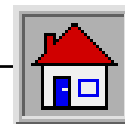
Door opening from inside:

- Lift lever 2 and release the lock to open the door completely.
- Rotate handle 3 to open the upper section of the door and lock it against the special catch.

To unlock the door latched in open position:

- Press button 4 to unlock the door from the catch, close and latch the door to the lower section using handle 3.

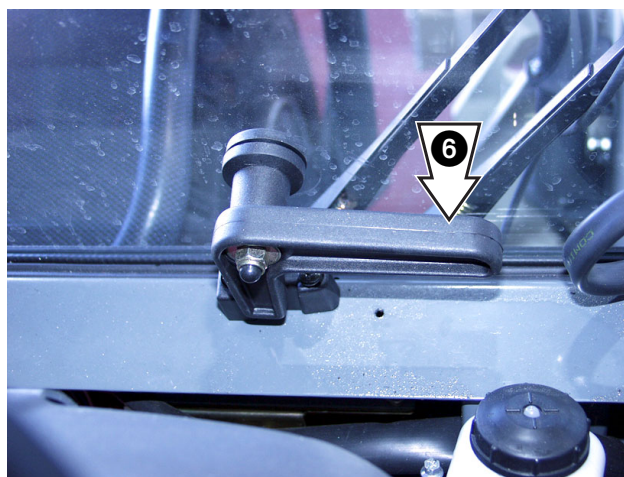
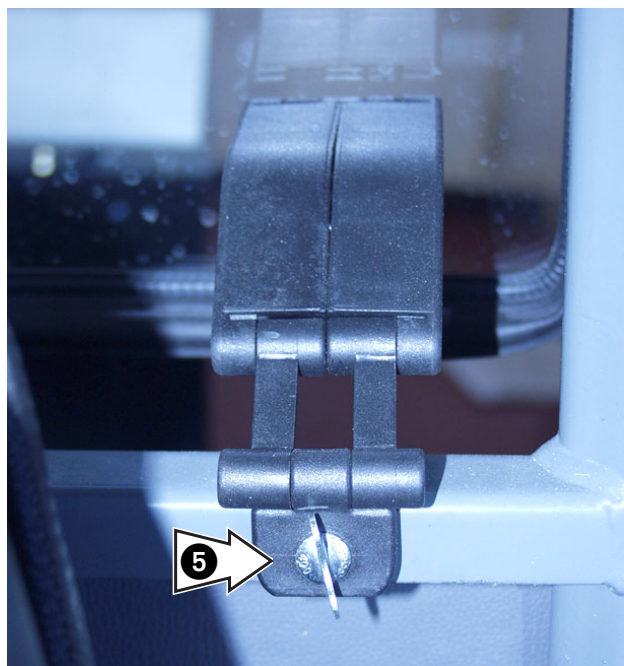


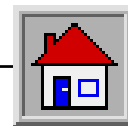
**OPERATING INSTRUCTIONS****■ C-2.1.1 Leaving the cab in an emergency**

In an emergency, the operator can use the front or the rear window as safety exit-ways.

The rear window has handles for partially opening the glass. Such handles are locked in position by some wing nuts 5 which, if driven out, allow opening the glass completely.

The front window has two handles 6 which, if turned, enable the operator to pass through.





OPERATING INSTRUCTIONS

■ C-2.2 ADJUSTING THE SEAT

A correct adjustment of the seat ensures the operator a safe and comfortable driving. The handler seat is fitted with devices which allow for the adjustment of the springing, the height and the distance from the controls.

- **Seat distance from the controls**

The seat is equipped with an adjusting device to slide the same seat forward or back with respect to the steering column.

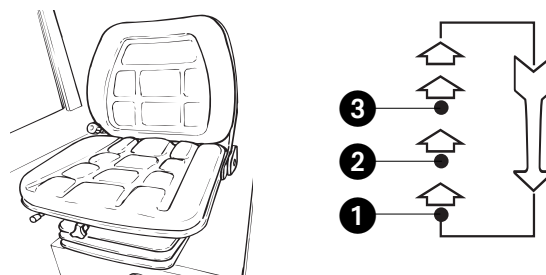
To adjust the seat, pull lever **1** outwards and push the seat to the desired direction. Then release the lever and make sure that the seat locks in position.

- **Springing adjustment**

Rotate lever **2** clockwise or anticlockwise according to the springing degree required. Rotate clockwise/ anticlockwise to increase/reduce the seat springing. To reverse this control, pull out and rotate the lever knob by 180°.

- **Height adjustment**

Turn knob **3** clockwise to lift the seat; turn it counter-clockwise to lower the seat.

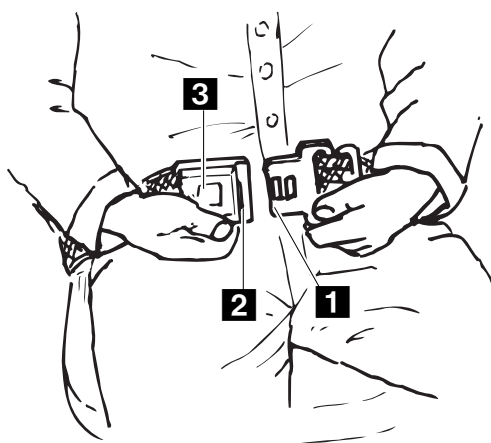
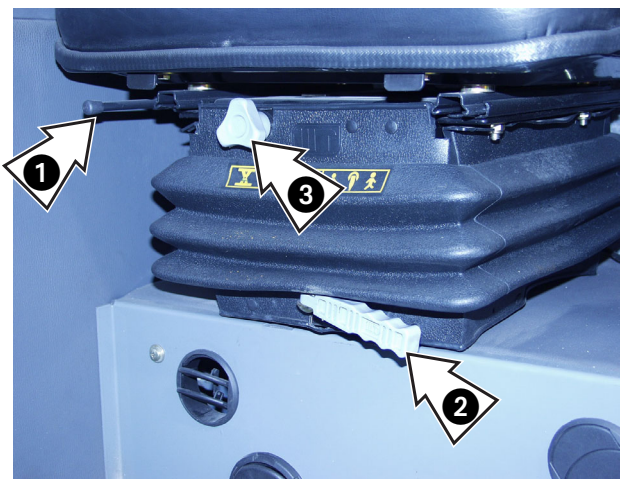


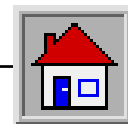
In some seats height can be adjusted to three different positions. Lift the seat until you hear the click signalling that the seat is locked in position. To lower the seat, raise to end of stroke to release the mechanism, then release the seat: it will return to the bottom position.

■ C-2.3 FASTENING THE SEAT BELTS

Sit correctly in the driving seat; then:

- The safety belts are equipped with reel retractor. To fasten the belt, pull tab **1** and push it into buckle **2**.
- To release the belt, push button **3** and remove the tab from the buckle.
- Make sure that the buckle is correctly located at the hip point and not on the stomach.
- Operate the end adjusters to reach the length you wish and make sure the buckle is always in the middle.





OPERATING INSTRUCTIONS

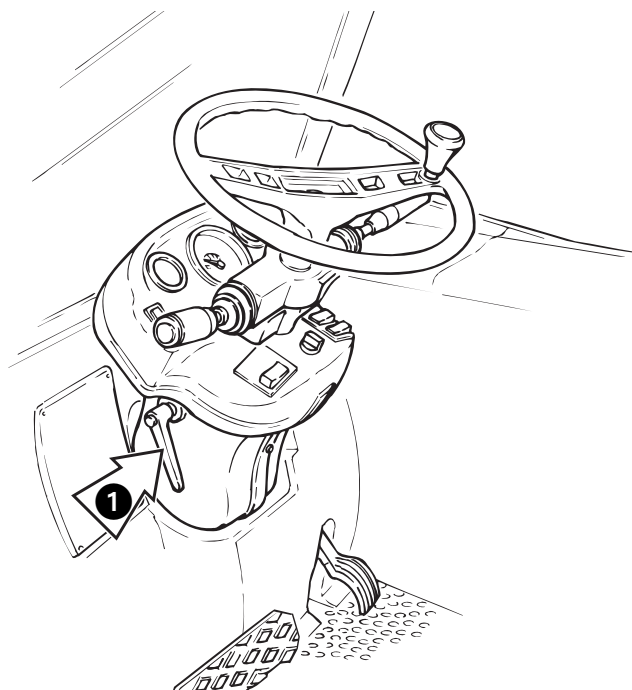
■ C-2.4 ADJUSTING THE STEERING COLUMN

Both steering column and dashboard can be set to a different angle. For this purpose:

- Loosen lever **1** and adjust as required, then re-tighten lever **1**.



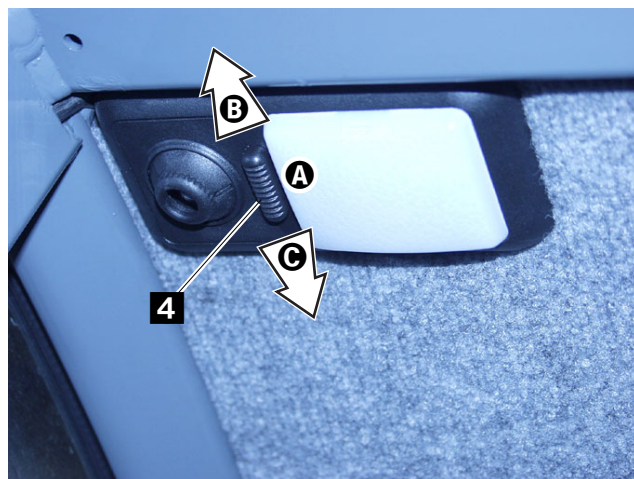
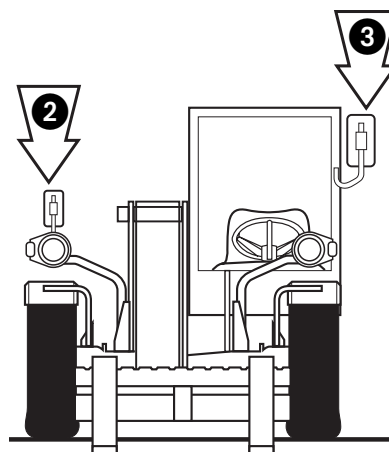
Before driving the machine, ensure the steering wheel is perfectly clamped.



■ C-2.5 ADJUSTING THE REAR VIEW MIRRORS

The machine is fitted with two rear view mirrors:

- The right rear view mirror is located on a special supporting bracket in advanced position and allows checking the area behind the machine, on the right-hand side. To adjust its position, manually rotate the joint it is fitted with.
- The left rear view mirror is placed on the left upper post of the windscreen and allows checking the area behind the machine, on the left-hand side. To adjust its position, manually rotate the joint it is fitted with.

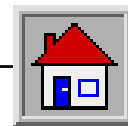


■ C-2.6 SWITCHING ON THE CAB LIGHTS

The ceiling light fixture of the cab has an internal lamp and a courtesy lamp.

To switch on the cab interior lights:

- Switch **4** in pos. **A** cab interior lights OFF
- Switch **4** in pos. **B** cab interior lights ON.
- Switch **4** in pos. **C** courtesy lamp ON



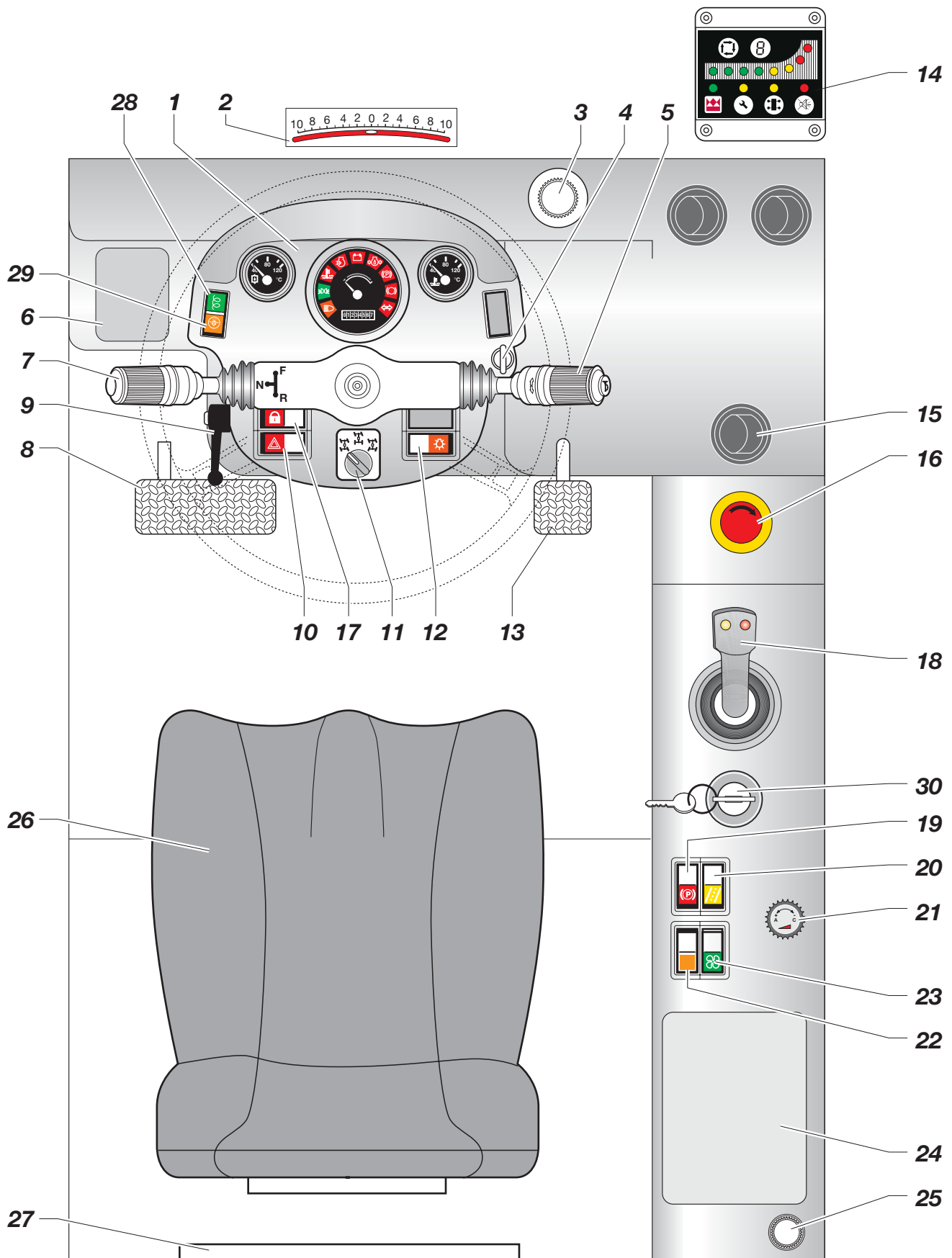
■ C-3 DRIVING PLACE

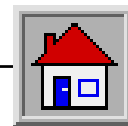
■ C-3.1 CONTROLS AND INSTRUMENTS

- 1 Dashboard
- 2 Water level
- 3 Brake oil tank
- 4 Ignition switch
- 5 Turn signals - windscreen wiper - horn switch
- 6 Fuse compartment
- 7 Forward/reverse speed selection lever
- 8 Brake pedal
- 9 Steering column locking lever
- 10 Hazard lights switch
- 11 Steering selection switch
- 12 Road light switch
- 13 Gas pedal
- 14 Overload warning system display
- 15 Fresh air flap
- 16 Emergency stop button
- 17 Pushbutton enabling the attachment coupling/release
- 18 Control lever
- 19 Negative brake on/off switch
- 20 Road/Jobsite switch
- 21 Cab heater cock
- 22 Optional attachment switch with built-in green lamp (if any)
- 23 Air conditioning fan switch
- 24 Storage tray
- 25 Windscreen water reservoir
- 26 Seat
- 27 Storage pocket
- 28 Warning light - glow plugs preheating
- 29 Warning light - air filter clogged
- 30 Load limiter disabling key



OPERATING INSTRUCTIONS





OPERATING INSTRUCTIONS

■ C-3.2 ENGINE CONTROLS AND INSTRUMENTS

■ C-3.2.1 Ignition switch

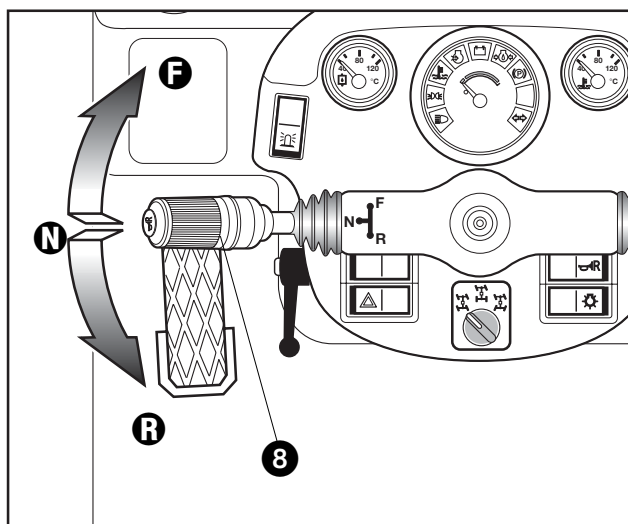
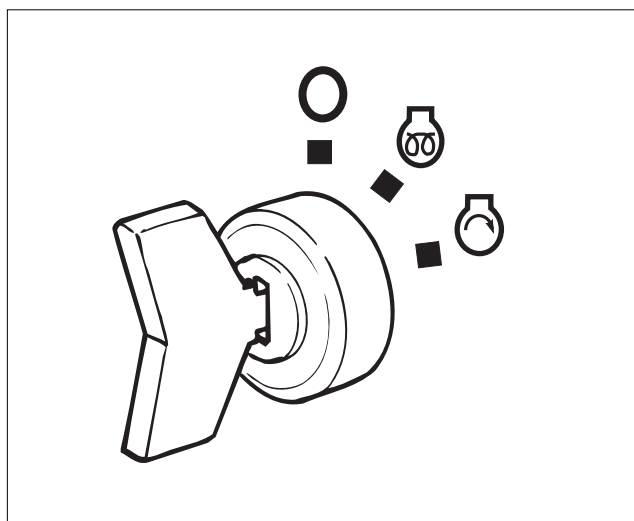
Three-position switch:

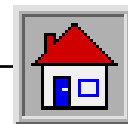
- No circuit under voltage, key can be removed and engine is stopped
- ⦿ Circuits under voltage, presetting for the engine starting. Board controls and instruments are on. The warning light **28** signalling the glow plugs preheating comes on. Wait until the light goes off before starting the engine.
- ⦿ Engine starting; when released, key springs back to pos. ⦿ automatically.

■ C-3.2.2 Forward/reverse gear selector switch

Three-position switch with lock in neutral position:

- N** Neutral position; no gear engaged
- F** Shift lever to pos. **F** to select the forward gear
- R** Shift lever to pos. **R** to select the reverse gear



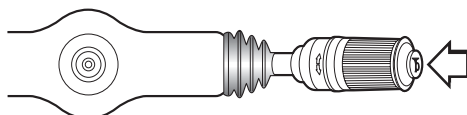


OPERATING INSTRUCTIONS

■ C-3.2.3 Turn signals - Windscreen wiper - Horn - Lights

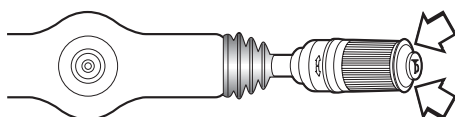
■ Horn function:

When sliding the lever along its axis, horn switches on, independently from other pre-set functions.



■ Windscreen washer function:

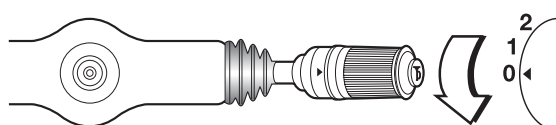
Push the second stage of the lever along its axis to direct a jet of water onto the cab windscreen.



■ Windscreen wiper function:

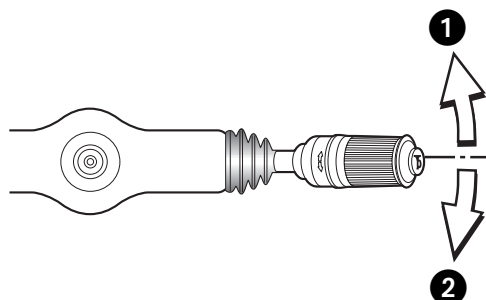
To operate the windscreen wiper, rotate the lever tip to one of the three positions:

- ① Wiper OFF
- ① Low speed
- ② High speed



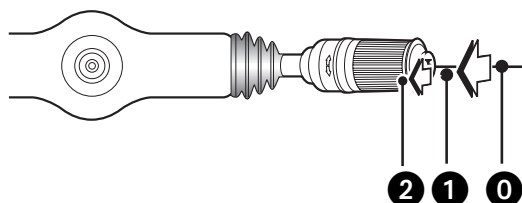
■ Turn signals function:

Set lever to pos. ① to indicate a turn leftwards or to pos. ② to indicate a turn rightwards.

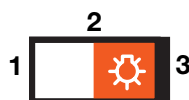


■ Lights function:

The lever operates the light switching and shall be used in conjunction with pushbutton 12.



12 Road lights switch



Three-position switch placed on the dashboard on the right-hand side over the ignition switch.

Pushbutton in pos. 1:

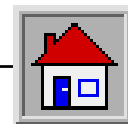
- Lever in position ① or ①: Lights OFF

Pushbutton in pos. 2 (the warning light 61 comes on):

- Lever in position ① or ①: Position lights ON

Pushbutton in pos. 3:

- Lever in position ①: high beam ON (the warning lights 60 and 61 come on)
- Lever in position ①: low beam ON (the warning light 61 comes on)
- Lever in position ②: high beam intermittent signalling (releasing the lever, it springs back to position ①)



OPERATING INSTRUCTIONS

■ C-3.2.4 Brakes

8 Service brake pedal

Gradually step on the brake pedal to decelerate and stop the machine. The pedal operates on the front axle. Fully depressing the brake pedal causes a reset of the displacement of the power drive pump making the brake action more powerful.

■ C-3.2.5 Accelerator control

13 Gas pedal

Its pressure controls the engine rpm and, coupled to the gearbox, the machine speed. It is fitted with an adjustable stop in the lower part

19 Parking brake

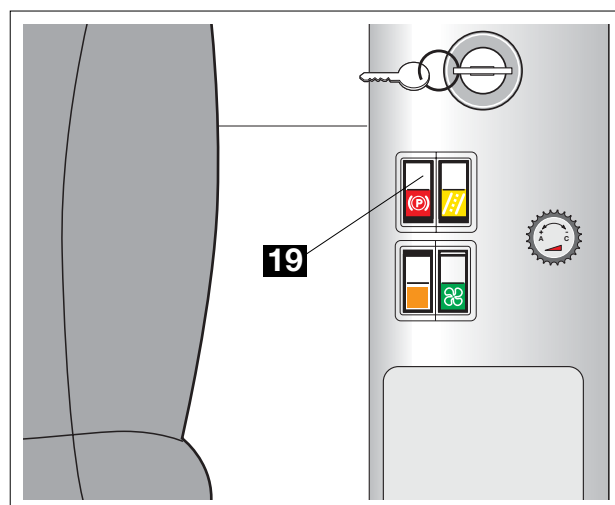
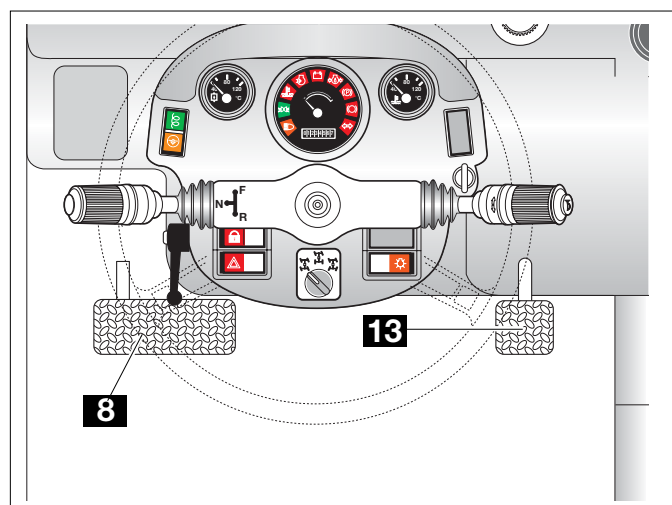
The parking brake of negative type engages automatically when the engine is stopped.

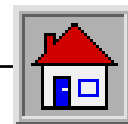
When the handler's engine is restarted, pressing the pushbutton switch **19** unlocks the parking brake.

To stop the handler without shutting down the engine, press the pushbutton switch **19** to engage the parking brake and push it once again to disengage the brake. Every pressure of the pushbutton switches the warning light on and off. When the red warning light is on, the parking brake is engaged.



Never use the parking brake to slow down the machine, unless in an emergency. It may reduce the brake efficiency.





OPERATING INSTRUCTIONS

■ C-3.2.6 Pushbutton enabling the attachment coupling/release

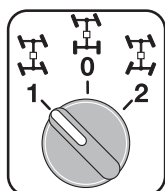
17 Selection button

Pushbutton with two stable positions. Pressing this button activates the attachment coupling and release. The built-in button light switches on.

■ C-3.2.7 Steering mode selection

11 Steering mode switch

Three-position switch for the selection of the steering mode:



- 1 Crab steering
- 0 Two-wheel steering
- 2 Four-wheel steering

■ C-3.2.8 Road/Job site switch

20 Selection button

Button with two stable positions:

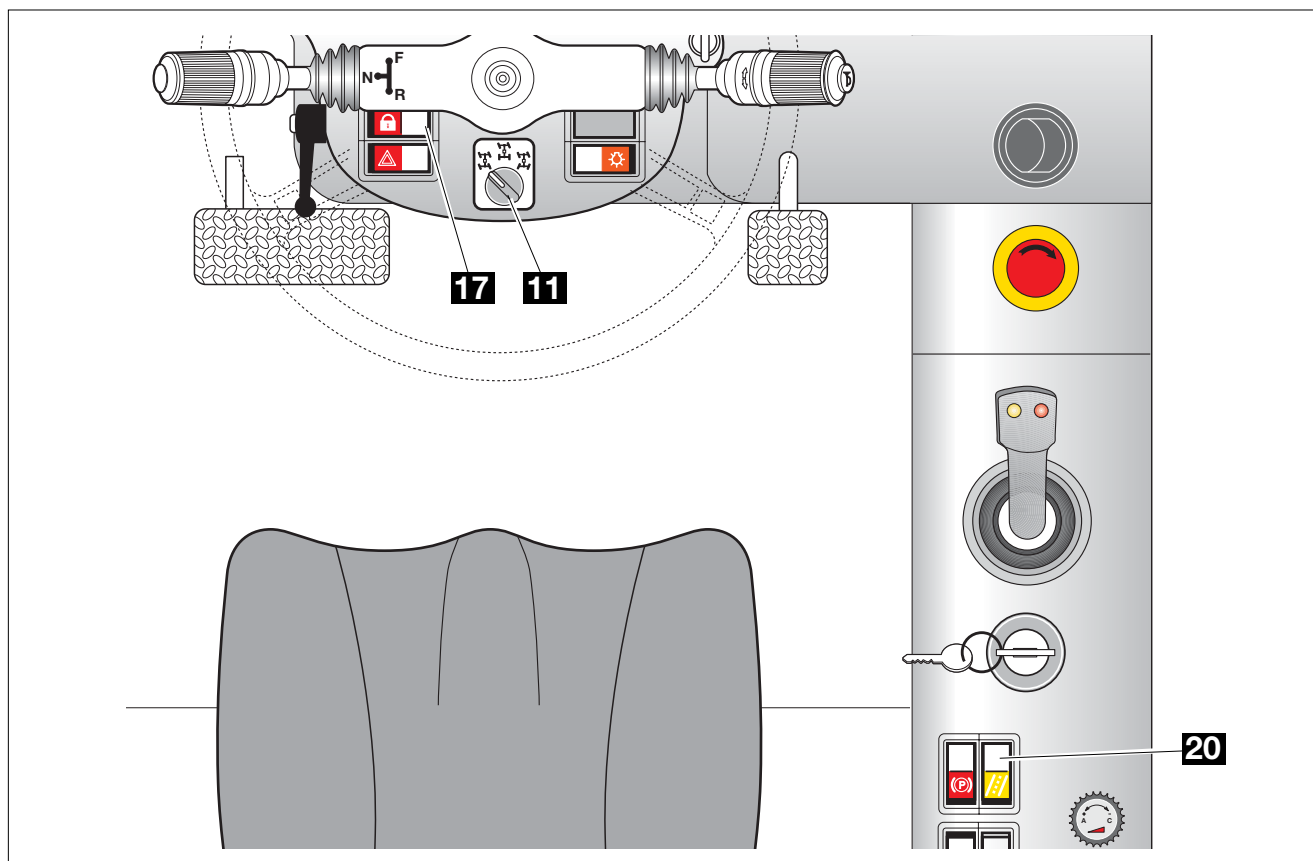


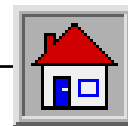
- 1 Press to select the road setting. The high speed can be engaged, the boom control is disabled and only the two-wheel steering is enabled. The built-in button light switches on.
- 2 Press the button again to select the work setting and enable the boom control and the four-wheel steering. The built-in button light switches off.



DANGER

Before switching on the ROAD function, align the rear wheels of the machine.





OPERATING INSTRUCTIONS

■ C-3.2.9 Auxiliary drive controls

Beacon

When the machine is started up, the beacon activates automatically.

22 Optional attachment pushbutton (if any)



Pushbutton with orange glass.

The pressure of this button causes the switching of the hydraulic circuit for the movement of the attachments equipped with auxiliary lines.

10 Hazard warning lights switch



Fitted with on-off position, it switches on the turn signals simultaneously

12 Road lights switch



This switch is located above the ignition switch and is used in conjunction with lever 5 (see C-3.2.3).

23 Air conditioning fan switch



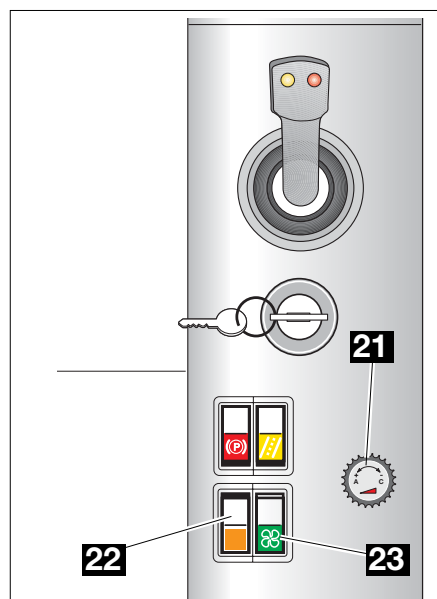
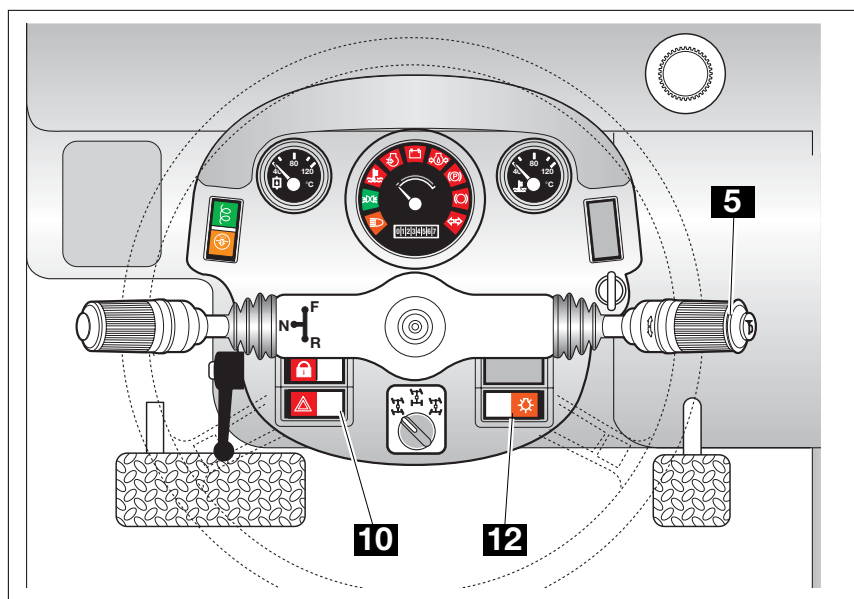
Three-position switch:

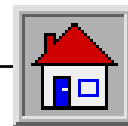
- 0 OFF
- 1 Low speed
- 2 High speed

21 Cab heater control cock

To the right of the driving seat.

- Rotate clockwise for fresh air
- Rotate anticlockwise for warm air
- Adjust the flow of warm air within the cab by the air conditioning fan switch 23.





OPERATING INSTRUCTIONS

C-3.3 INSTRUMENTS AND LIGHT INDICATORS

C-3.3.1 Instruments

- 54 Engine coolant temperature indicator**
Signals the engine coolant temperature.



- 53 Fuel gauge**
Signals the fuel level within the tank.



- 52 Hour-meter**
Signals the total operating hours of the machine.

- 51 Hydraulic oil temperature indicator**
Signals the temperature of the hydraulic oil within the reservoir.



C-3.3.2 Light indicators

- 60 Indicator light - high beam**
Blue indicator light that signals when high beam is ON.



- 61 Indicator light - position lights**
Green indicator light that signals when position lights are ON.



- 63 Indicator light - air filter soiled**
Not activated.



- 64 Indicator light - low battery charge**
Signals a low charge by the alternator.



- 65 Indicator light - low engine oil pressure**
It lights when the engine oil pressure is too low.



- 66 Indicator light - parking brake engaged**
When ON, this light indicates that the parking brake is engaged.



- 67 Indicator light - negative brake accumulator**
This light indicates that the accumulator of the negative brake is getting discharged.



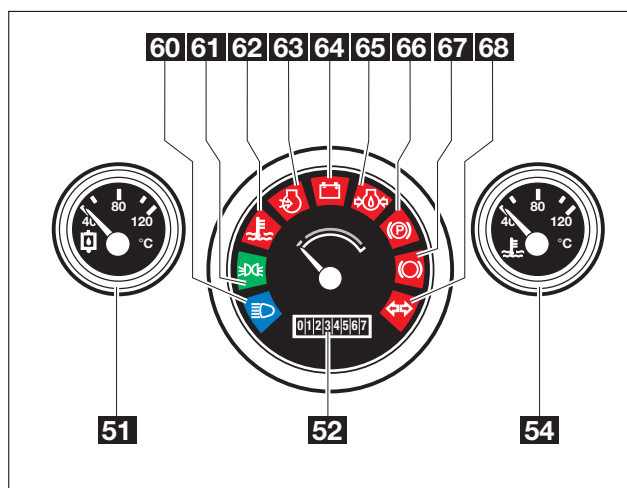
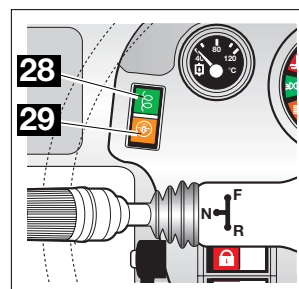
- 68 Indicator light - turn signals**
Green indicator light that signals when turn signals are ON.

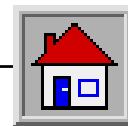


- 28 Indicator light - glow plugs preheating**
Green light indicators which signal the preheating phase of the engine glow plugs. Before starting the engine wait for these lights to go off.



- 29 Indicator light - air filter soiled**
Orange light indicator which signals when the air intake filter of the engine is getting soiled. Clean or replace the filtering cartridge immediately.





OPERATING INSTRUCTIONS

C-3.4 CONTROL LEVER

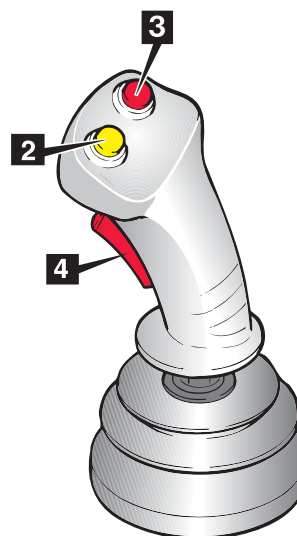
Handlers are equipped with an hydraulically driven servo-controlled lever.

The lever is equipped with two buttons for locking/releasing the attachments **3** and for extending/retracting the telescopic boom **2**.

When shifted to one of the four directions (right/left, forward/back), it controls the boom lifting/lowering and the forward/back pitching of the attachment frame.

It is also equipped with an intentional control button **4** that must be pressed and held in position until the movement is completed.

If the button is not pressed down, the lever, though operated, does not perform any function.



IMPORTANT

*In the TCE version, the intentional control pushbutton **4** is not installed.*

For the functions of the control lever in the TCE version, please refer to [par. C-3.4.1.1](#).

IMPORTANT

Seize the control lever correctly and move it gently. The motion speed of the actuators depends on the lever position: a small motion results in a slow motion of the actuators; vice versa, a full range motion of the lever corresponds to the max. speed of the actuator.



CAUTION

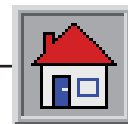
The control lever shall be operated only when correctly seated in the driving place.



CAUTION

Before operating the control lever, make sure that nobody is within the working range of the machine.





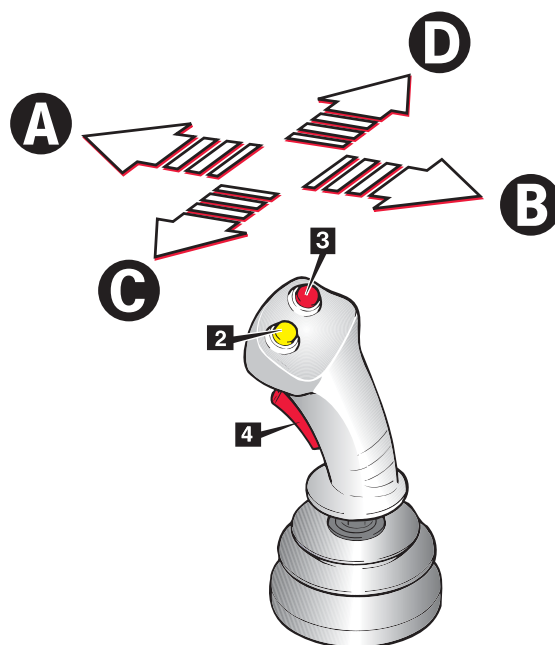
■ C-3.4.1 Function selection

IMPORTANT

For the functions of the control lever in the TCE version, please refer to par. C-3.4.1.1.

After pressing the intentional control pushbutton **4**, the lever is enabled to carry out the following motions:

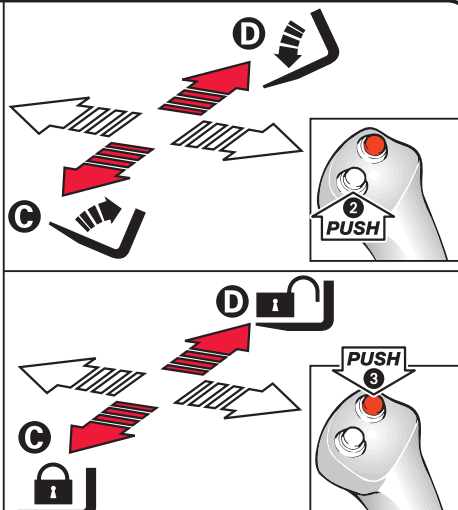
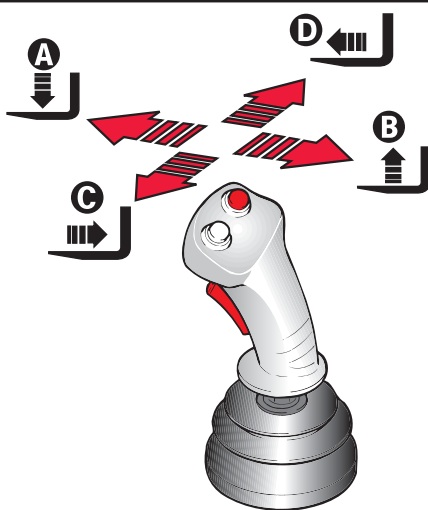
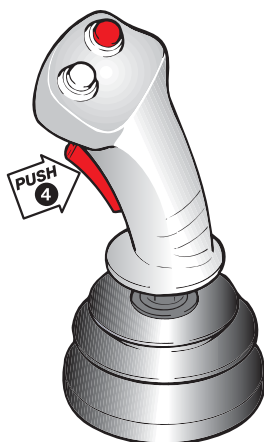
- **Boom lowering/lifting**
shift the control lever to **A** or **B**
- **Attachment back/forward tilting**
shift the control lever to **C** or **D**
- **Boom extraction/retraction**
press button **2** and shift the control lever to **C** or **D**
- **Attachment coupling/release**
press button **3** together with the dashboard enabling button (**17**) and shift the lever to **C** or **D**

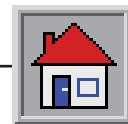


DANGER

When pressing the intentional control button **4** and the lever is not correctly set to central position, the control of the selected actuator is operated immediately.

2506





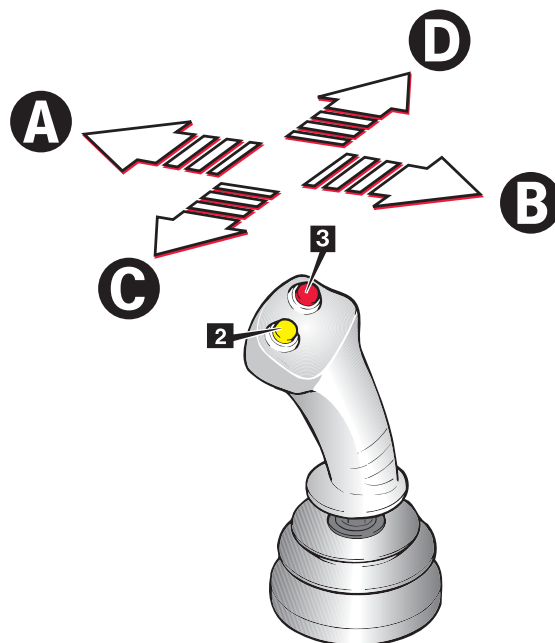
OPERATING INSTRUCTIONS

■ C-3.4.1.1 Function selection

For TCE version

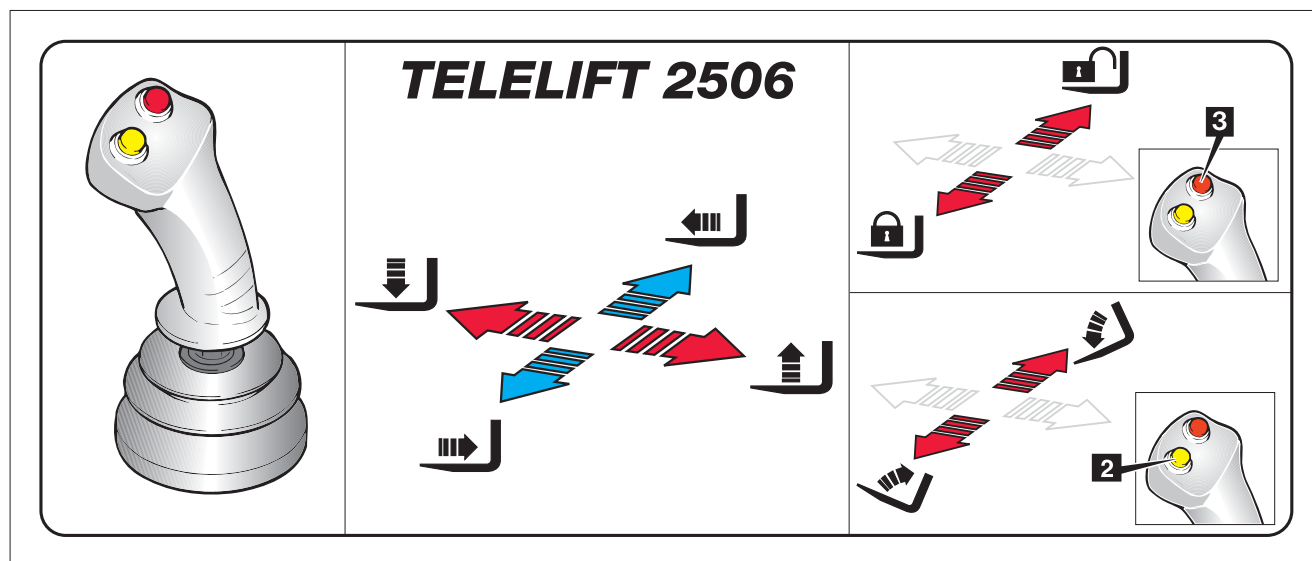
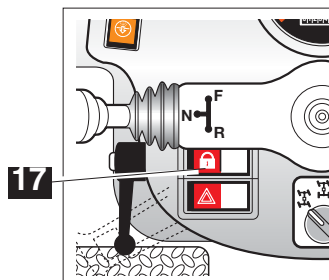
The lever is enabled to carry out the following motions:

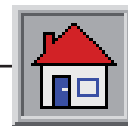
- **Boom lifting/lowering**
Smoothly shift the lever to position **B** to lift the boom or to position **A** to lower it.
- **Boom extraction/retraction**
Smoothly shift the lever to position **D** to extend the boom or to position **C** to retract it.
- **Attachment forward/back tilting**
Press button **2** and shift the lever to position **D** to tilt the frame forward or to position **C** to tilt it back.
- **Attachment coupling/release**
Press button **3** together with the dashboard enabling button (**17**) and shift the lever to position **D** to unlock the attachment or to position **C** to lock the attachment.



DANGER

Before operating the boom, make sure that no persons or animals are within the working range of the machine. Should that be the case, wait until the intruders leave the working range before operating the handler.





OPERATING INSTRUCTIONS

■ C-3.4.2 Emergency stop

The operated functions can be stopped at any time by pressing the emergency stop button (21).

By pressing this button, the engine of the machine is shut down.

Before restarting the machine, it is necessary to reset the pushbutton by rotating clockwise.



Before restarting the machine, find and rectify the faults that caused the emergency.

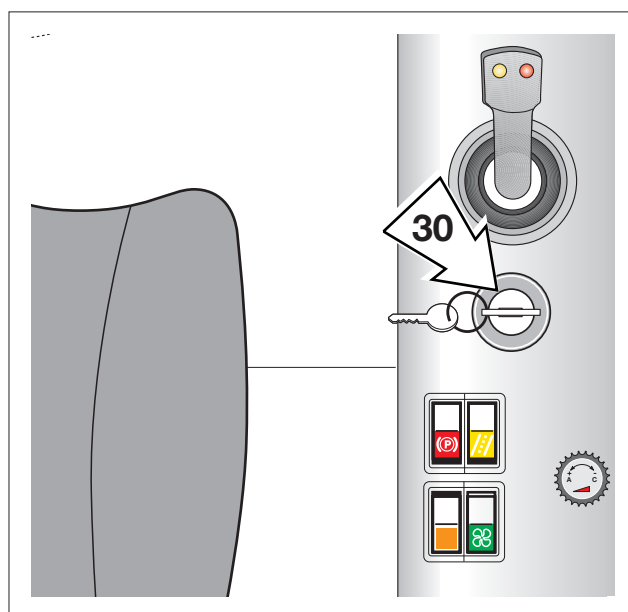
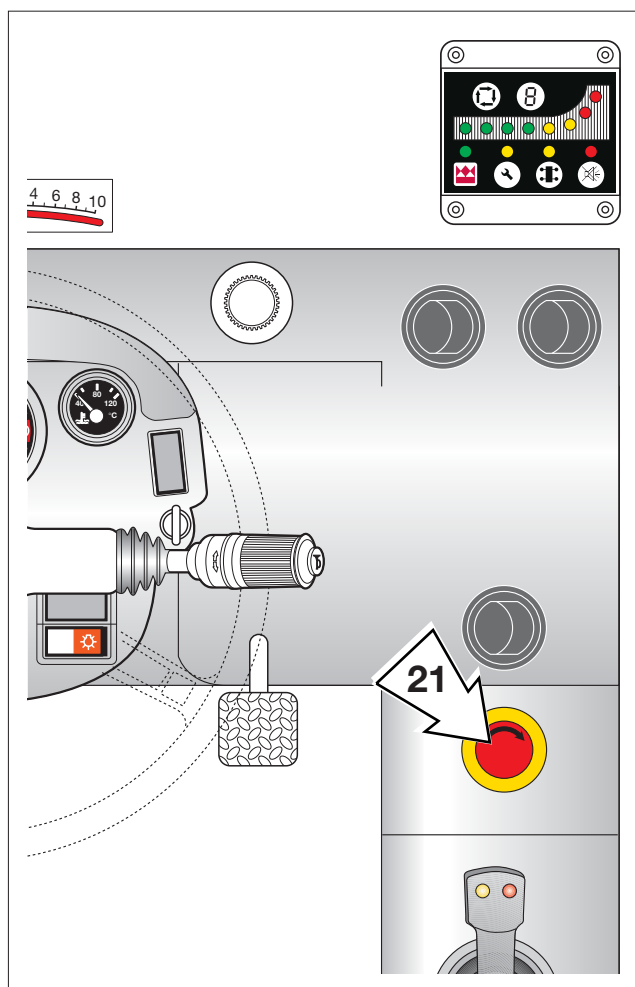
■ C-3.4.2.1 Disabling the load limiting system

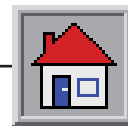
The key-switch 30 lets you disable the load limiter.



WORKING WITH THE LOAD LIMITER CUT OUT CAN RESULT IN A MACHINE OVERTURNING AND IN SERIOUS INJURY.

USE THIS OPTION ONLY IN CASE OF NEED AND DON'T FORGET TO REACTIVATE THE LOAD LIMITER AFTER THE EMERGENCY.



**OPERATING INSTRUCTIONS****■ C-3.4.3 Lifting/lowering the boom****CAUTION**

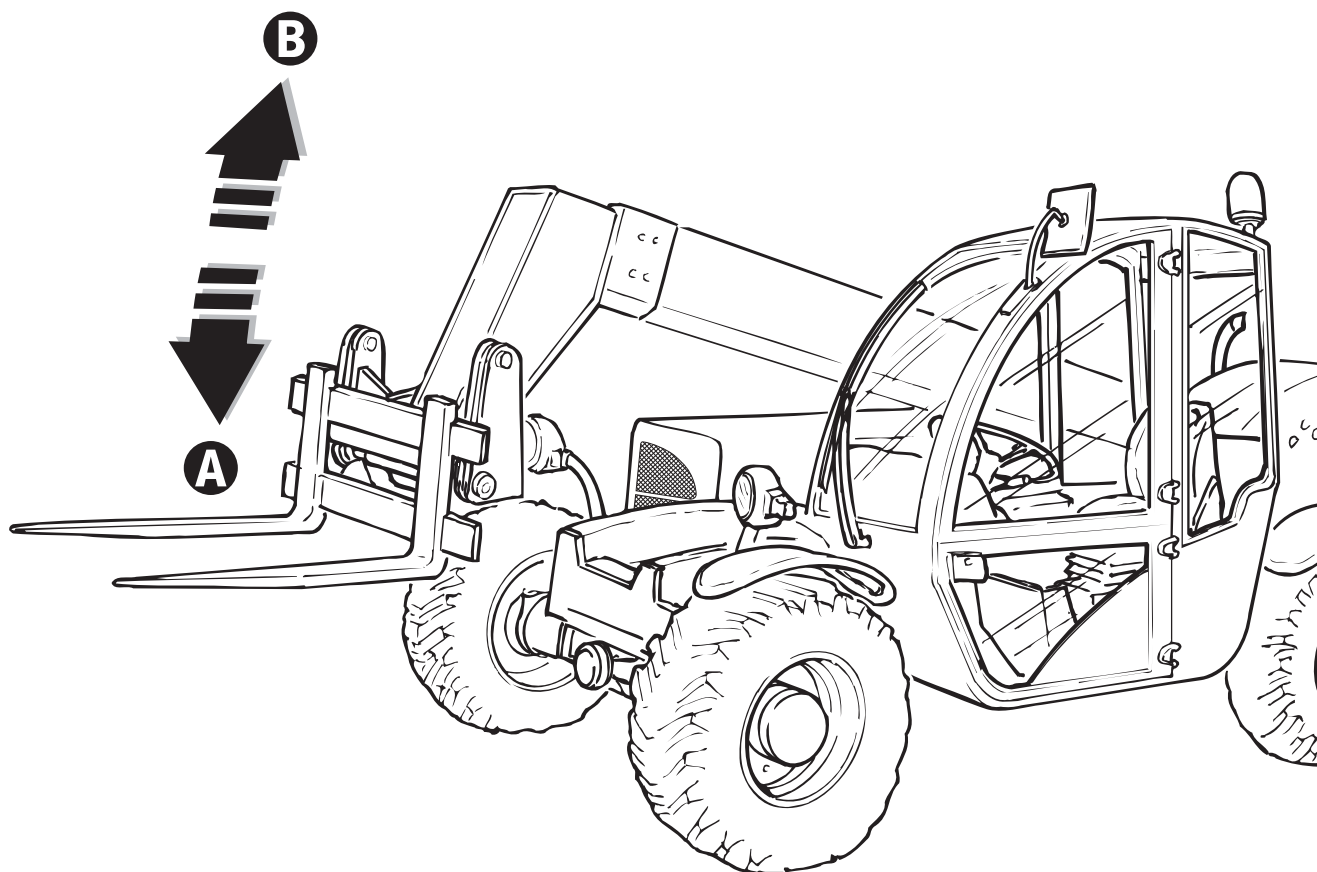
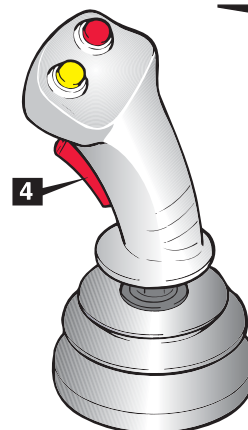
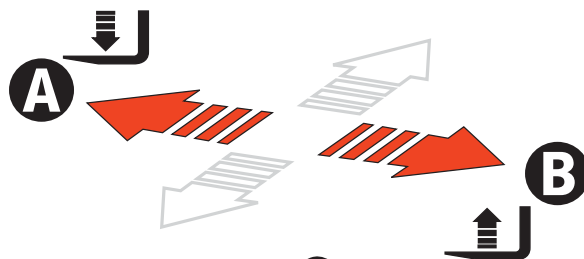
Before operating the boom, make sure that nobody is within the working range of the machine.

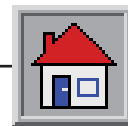
To lift or lower the boom:

- Set the control lever to central position and press button **4**
- Smoothly shift the lever to position **B** to lift the boom or to position **A** to lower it.

IMPORTANT

For the functions of the control lever in the TCE version, please refer to par. C-3.4.1.1.



**OPERATING INSTRUCTIONS**

■ C-3.4.4 Extending/retracting the boom

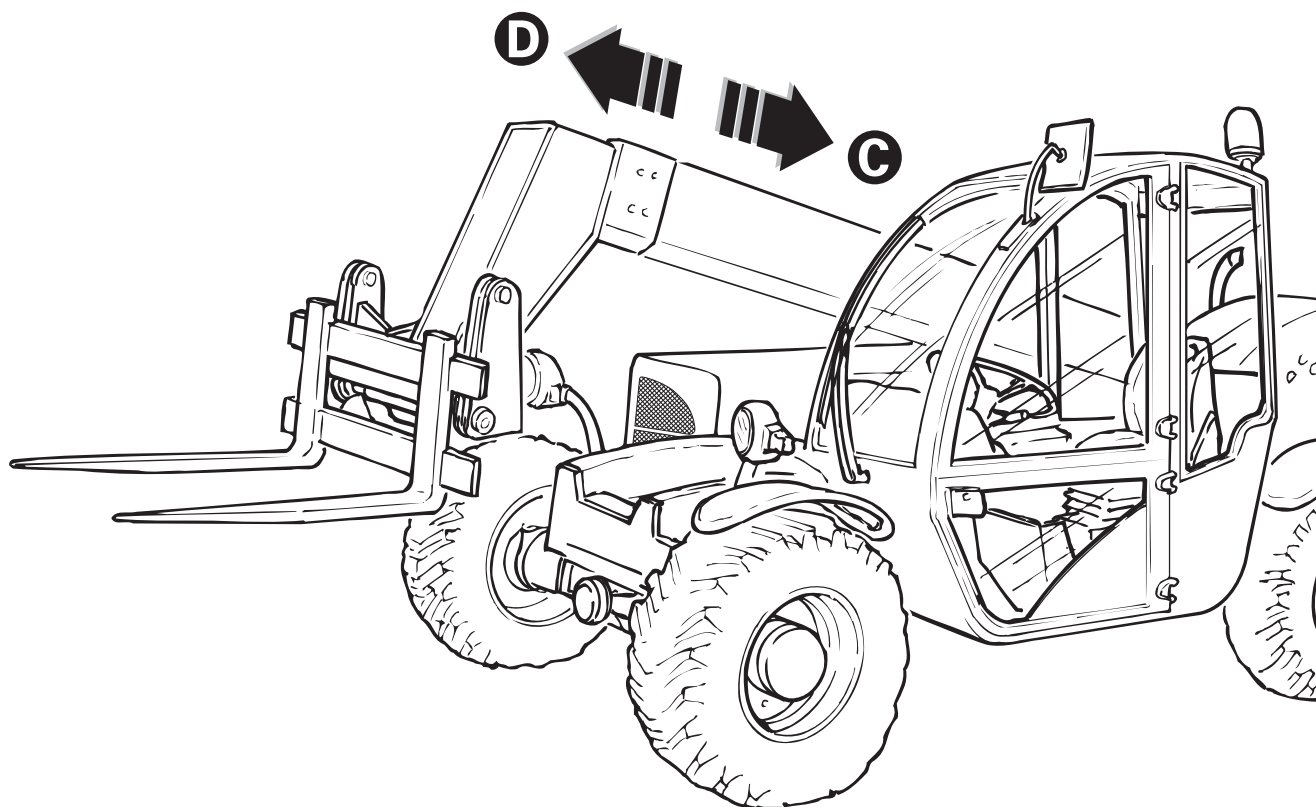
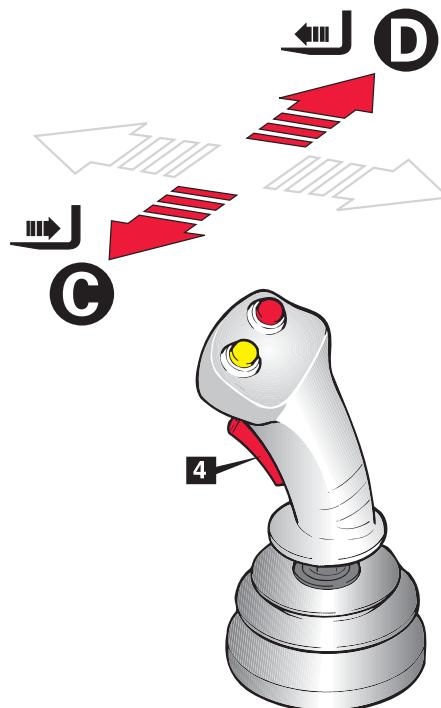
**CAUTION**

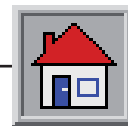
Before operating the boom, make sure that nobody is within the working range of the machine.

- Set the control lever to central position and press button **4**
- Smoothly shift the lever to position **D** to tilt the frame forward or to position **C** to tilt it back.

IMPORTANT

For the functions of the control lever in the TCE version, please refer to par. C-3.4.1.1.





OPERATING INSTRUCTIONS

■ C-3.4.5 Pitching the attachment holding frame forward/back



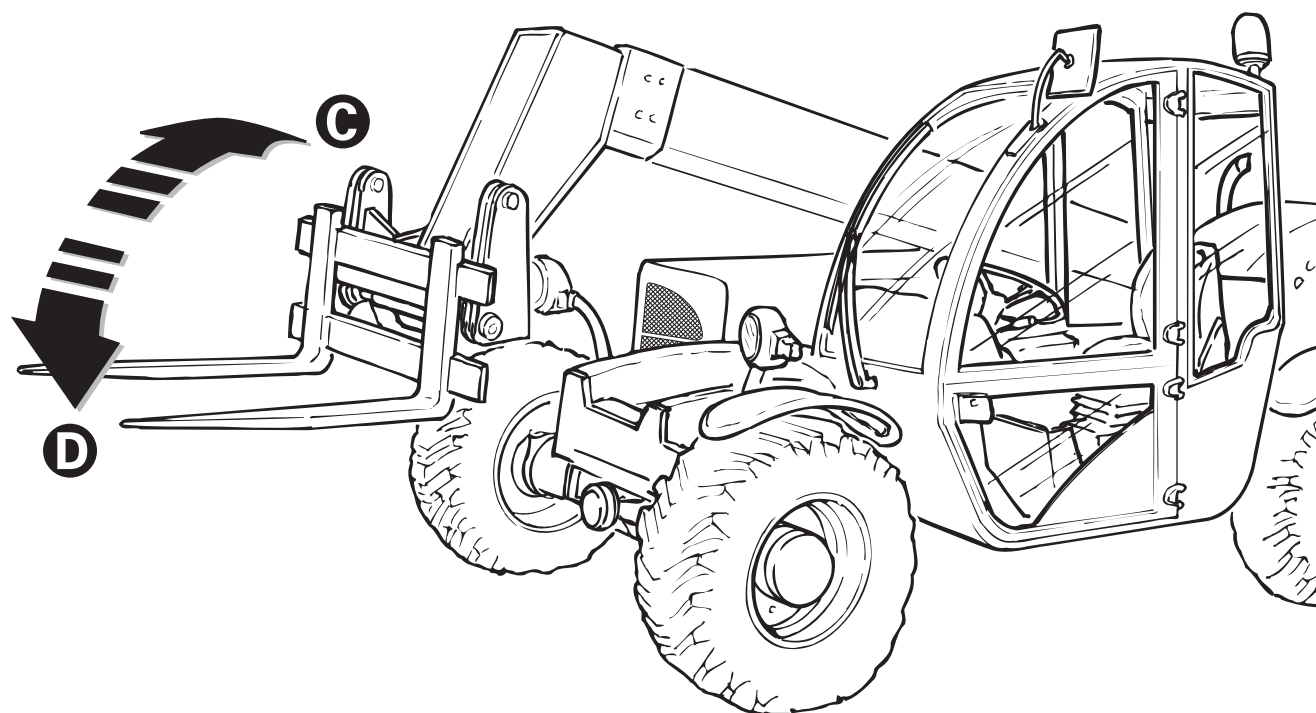
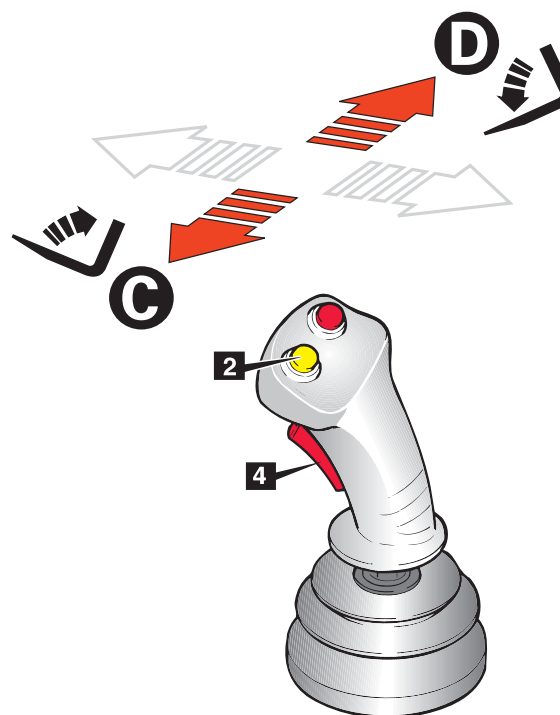
Before operating the boom, make sure that nobody is within the working range of the machine.

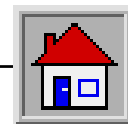
To extend or retract the telescopic elements of the boom:

- Set the control lever to central position and press button **4**
- Press button **2** and shift the lever to position **D** to extend the boom or to position **C** to retract it.



For the functions of the control lever in the TCE version, please refer to par. C-3.4.1.1.





OPERATING INSTRUCTIONS

■ C-3.4.6 Quick-coupling the attachments



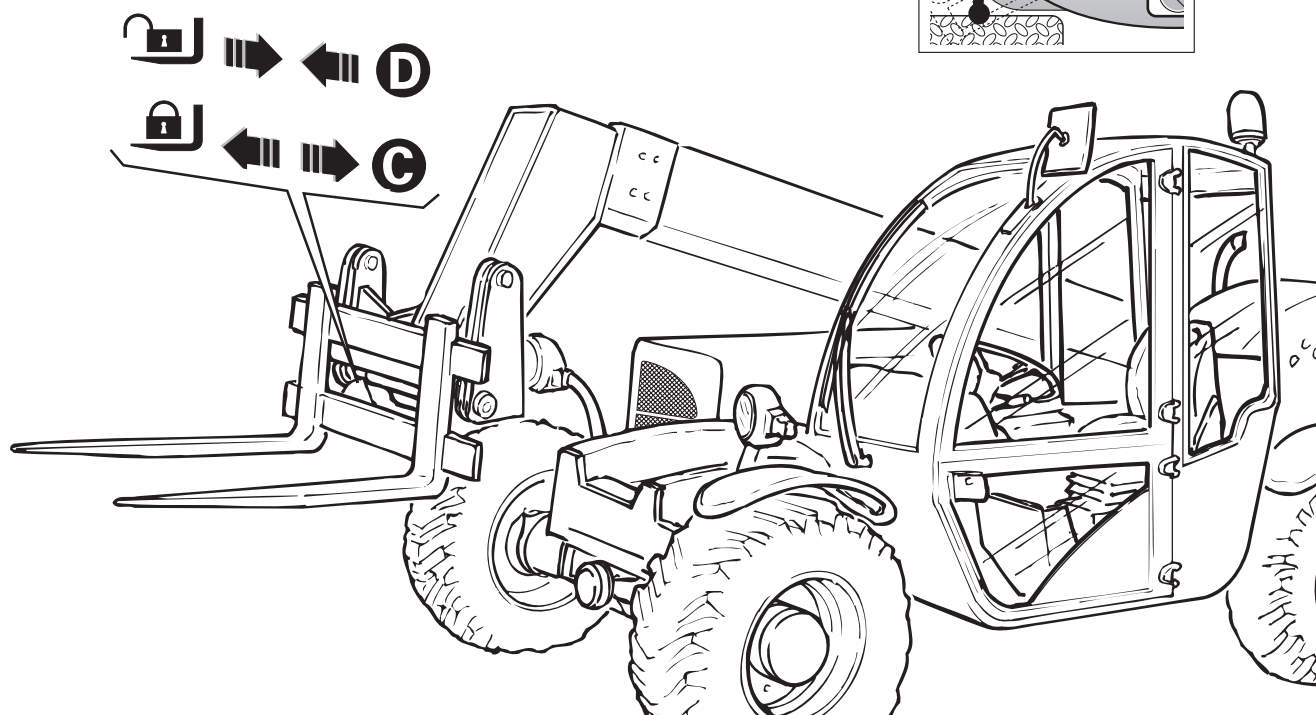
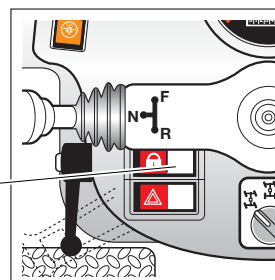
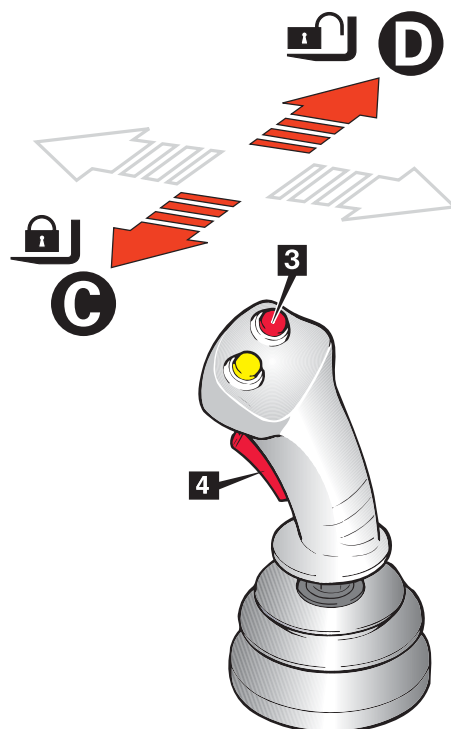
Before operating the boom, make sure that nobody is within the working range of the machine.

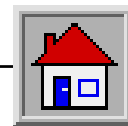
To lock the attachments:

- Shift the control lever to central position and press button **4**
- Press button **3** together with the dashboard enabling button (**17**) and shift the lever to position **D** to unlock the attachment or to position **C** to lock the attachment.



For the functions of the control lever in the TCE version, please refer to [par. C-3.4.1.1](#).





OPERATING INSTRUCTIONS

C-4 SETUP

C-4.1 BEFORE STARTING THE ENGINE

- To ensure safe conditions to the operators and the bystanders, and a longer life to your machine, perform a walk-around inspection before starting the engine.
- Remove any dirt or rubbish from the cab interior, and especially from pedals and control levers.
- Remove oil, grease and mud from pedals and control levers.
- Make sure that your hands and shoe soles are clean and dry.
- Check the seat belts can be fastened properly.
- Check that lights, indicators, side/tail lights, hazard indicator lights, wipers and horn are in working order.
- Adjust the driving seat so that you can reach all control levers comfortably and fully depress the brake pedal without moving your back from the driving seat.
- Adjust the rear view mirrors to give you a good view close behind the machine when you are correctly seated.
- Check the parking brake is engaged.

C-4.1.1 Checks at the machine start-up

When power is turned on, the load limiting system activates automatically. If the power supplied is correct, the green light 4 above the Terex logo comes on. The display remains off while the system runs a self-test. After that, the system is activated and 0 appears on the display.

If during the check phase, the load limiting system finds a fault, it enters the safety mode automatically blocking any dangerous manoeuvres and an error message starts flashing on the display. For any further information, refer to [chap. C-5.2](#).

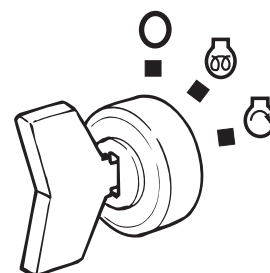
Also check the efficiency of the safety devices as described in [chap. D-3.15](#), namely:

- overload warning system
- joystick pushbutton (*not present in the TCE version*)
- seat micro-switch (*only in the TCE version*)
- parking brake proximity switch
- emergency pushbutton
- machine start control

C-4.2 STARTING THE ENGINE

For the low temperature starting, see paragraph C-4.4.

- Put the mechanical gear lever to neutral.
- Step on the gas pedal.
- To start the engine, turn the ignition switch to position . Release the switch when the engine starts. If the engine does not start within 20 seconds, release the key and wait at least 2 minutes before attempting again.
- After the start-up, let the engine run at idle for some seconds before engaging a gear; this allows for a gradual warm up of the engine oil and a better lubrication.
- In case of engine jump-starting, remove the booster cables (see following chapter).



ATTENTION

If the light indicators do not switch off/on when engine is running, immediately stop the machine and find and rectify the fault.

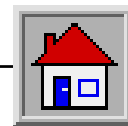
IMPORTANT

Engine cannot be started if the speed switch is not in the neutral position and the operator is not correctly seated in the driving seat.



DANGER

After the start-up, when leaving the driving place, the engine continues to run. DO NOT LEAVE THE DRIVING PLACE BEFORE HAVING SHUT THE ENGINE DOWN, LOWERED THE BOOM TO THE GROUND AND ENGAGED THE PARKING BRAKE.

**OPERATING INSTRUCTIONS****■ C-4.3 JUMP-STARTING THE ENGINE****DANGER**

When jump-starting the engine through the battery of another machine, make sure that the two vehicles cannot collide to prevent formation of sparks. Batteries give off a flammable gas and sparks may burn it and cause an explosion

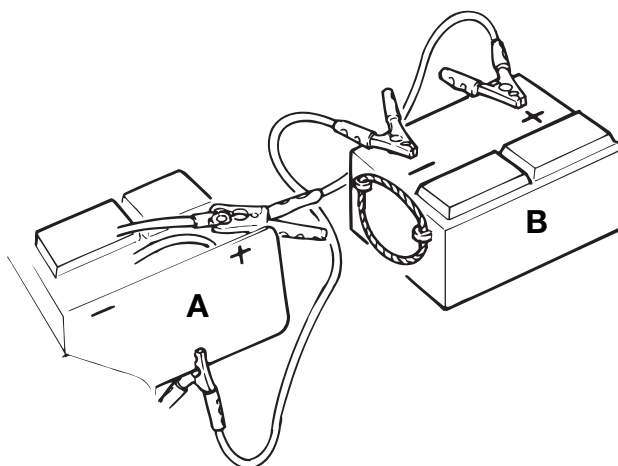
Do not smoke when checking the electrolyte level.

Keep any metal object like buckles, watch straps, etc. clear of the battery positive (+) terminal. These elements can short between the terminal and nearby metal work and the operator can get burned.

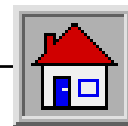
The booster supply must have the same rated voltage and output of the battery installed on the handler.

To jump-start the engine:

- Turn any users off by the special control levers.
- Put the gear lever to neutral and engage the parking brake.
- Ensure the machine battery **A** is connected to the frame earth, the terminals are well tightened and the electrolyte level is regular.
- Connect the two batteries as shown in the figure. Connect first the positive terminals of the two batteries, then the negative terminal of the booster supply **B** to the machine frame earth.
- If the booster supply is installed on a second vehicle, make sure that the latter does not touch the handler; then start the vehicle and reach an rpm corresponding to 1/4 of full throttle.
- Turn the ignition key and start the handler, then follow the procedure explained in chapter C-4.2 "Starting the engine".
- Disconnect the cables. Remove first the negative terminal from the frame earth, then from the booster supply. Disconnect the positive terminal from the machine battery, then from the booster supply.

**DANGER**

Use only a 12V battery; other devices like battery chargers, etc. may cause an explosion of the battery or result in damage to the electrical system.



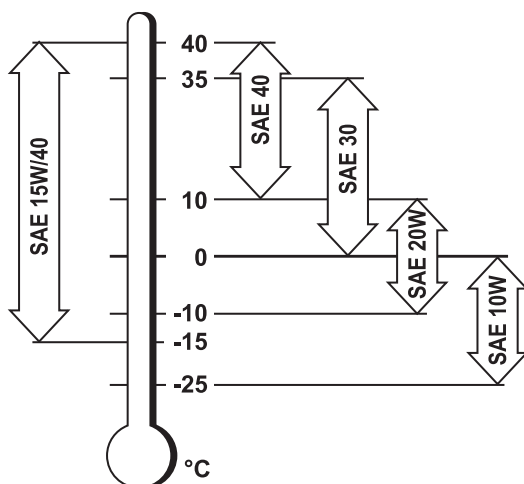
OPERATING INSTRUCTIONS

■ C-4.4 LOW TEMPERATURE STARTING

In case of cold starting, use an oil with a SAE viscosity adequate to the ambient temperature.

Please refer to the DEUTZ engine use and maintenance manual.

The machine is supplied with oil SAE 15W/40.

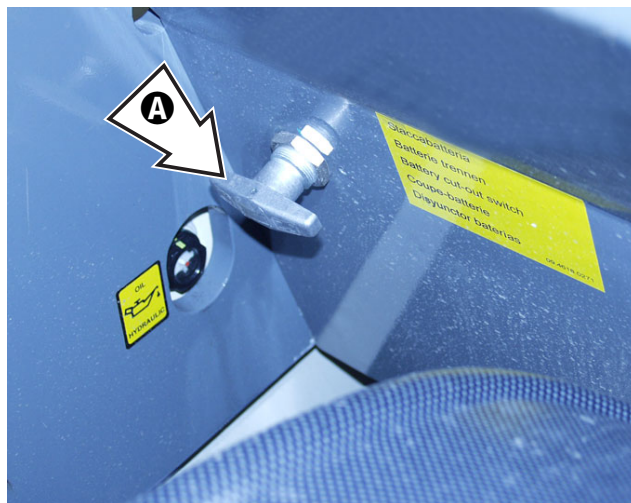


To start the engine from cold, proceed as follows:

- Put the mechanical gear lever to neutral.
- Turn the ignition switch to position  and wait until the warning light **28** signalling the glow plugs preheating goes off. Step down on the gas pedal and start the engine turning the ignition switch to . Release as soon as the engine starts.
- Let the engine run at idle for a few seconds before putting a gear; this allows for a gradual warm up of the engine oil and a better lubrication.
- In case of engine jump-starting, remove the booster cables (see chapter C-4.3).

■ C-4.5 DISCONNECTING THE BATTERY

During maintenance or repair works, and while welding, turn off the battery main switch **A**, located behind the rear right wheel compartment.



■ C-4.6 STARTING THE MACHINE

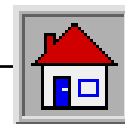
When the engine reaches the running temperature, ensure all parts are in transfer position and the gearbox lever is in neutral. Then, proceed as follows:

- Select the required steering mode.
- Select the required gear (forward or reverse).
- Release the parking brake pressing button **19** (the warning light on the pushbutton must be off).
- Slowly step on the gas pedal to start moving off.



CAUTION

Do not operate the forward/reverse gear lever when the machine is running. The machine would reverse the running direction abruptly and you could seriously be injured.

**OPERATING INSTRUCTIONS****■ C-4.7 STOPPING AND PARKING THE MACHINE**

When possible, stop the machine on a dry, level and solid ground. Then:

- Bring the machine to a smooth stop by easing up the gas pedal and stepping down on the brake pedal.
- Set the forward/back speed lever to neutral position.
- Engage the parking brake pressing button **19** (the warning light on the pushbutton must be on).
- Release the service brake pedal.
- Rest the attachment coupled to the boom flat on the ground.
- Rotate the ignition key to “0” and remove the key.
- Leave the driving cab and lock the cab door.
- Set the battery cut-out switch to **OFF** position.

**DANGER**

Always face the machine when getting off the driving cab; make sure that your hands and shoe soles are clean and dry, and hold to the handholds to prevent falls or slips.

**DANGER**

Always engage the parking brake after stopping the machine to prevent possible accidental motions of the vehicle.

■ C-5 USING THE HANDLER

This chapter describes some techniques and provides instructions for a safe use of the machine fitted with standard forks. Before using different attachments, thoroughly read the chapter “Optional attachments”.

**CAUTION**

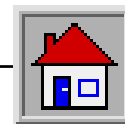
Before using the machine, inspect the job site and check for possible hazardous conditions. Make sure that there are no holes, moving banks or debris that may cause you to lose the control of the machine.

**ELECTRICAL DANGER**

Pay the greatest attention when working close to electric lines. Check their position and ensure that no part of the machine operates at less than 6 meters from the power lines.

**CAUTION**

For a safe use of the machine, always check the weight of the loads going to be handled. Always refer to the load charts applied on the cab windscreen or to the quick guide with the fork capacity ratings.



■ C-5.1 USING THE LOAD CHARTS

The charts indicating the maximum permissible load in relation to the boom extension are installed on the cab windscreen and/or illustrated in the quick guide. The load chart indicates the payload limits of the machine under safe conditions.

To operate under safe conditions, always refer to these charts.



CAUTION

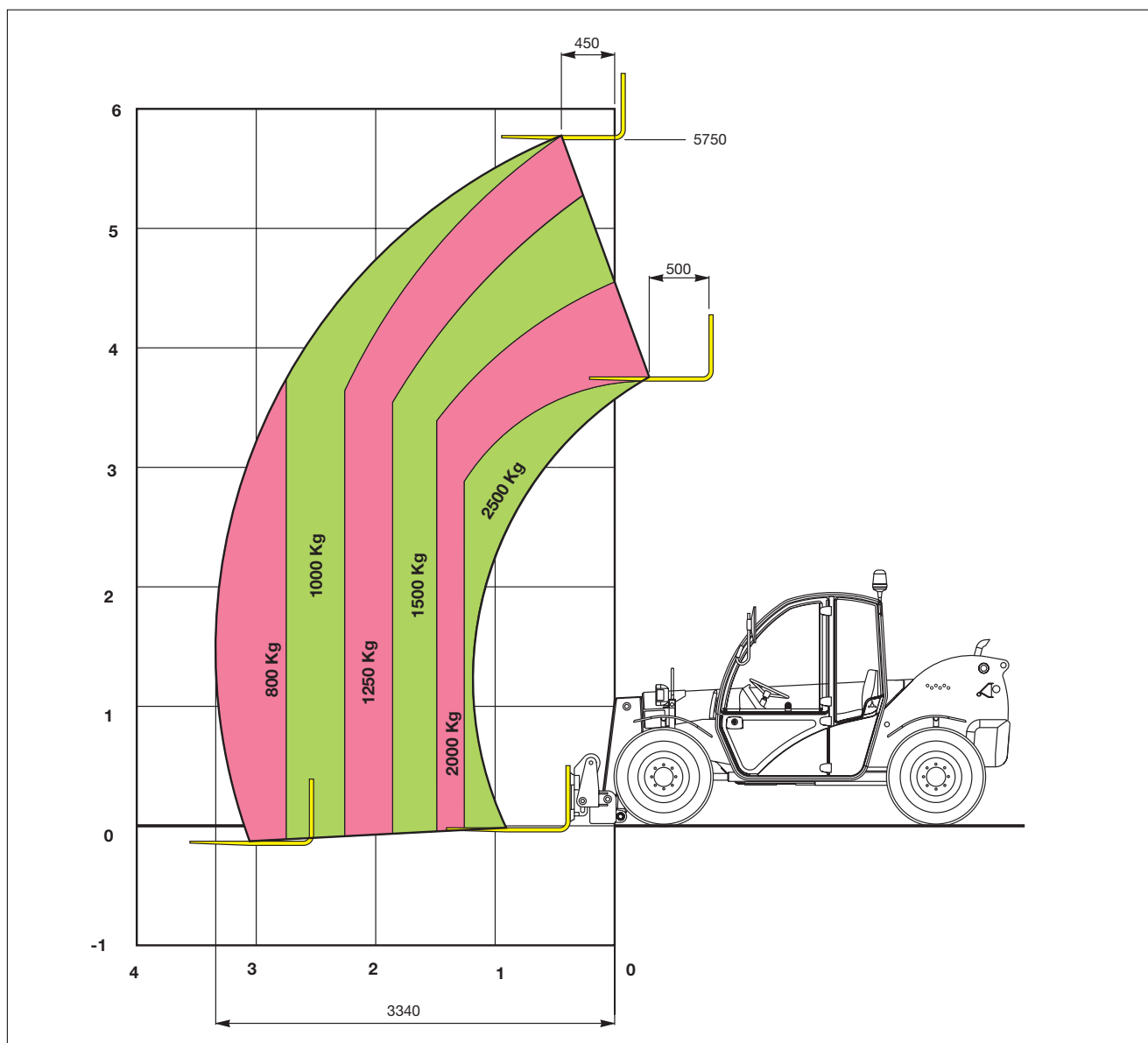
The load charts illustrated in this manual are given only as a mere example. To define the payload limits, refer to the load charts applied within the cab of your machine.

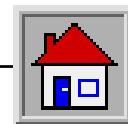


CAUTION

The load charts applied on the cab windscreen refer to a stationary machine standing on a solid and level ground.

Raise the load some centimetres and check its stability before raising it completely.





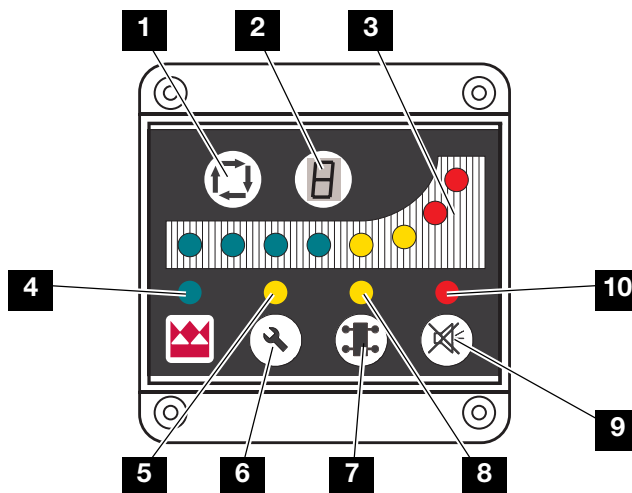
OPERATING INSTRUCTIONS

■ C-5.2 LOAD LIMITER

On the front top strut of the cab, there is limiter **34** which warns the operator of the variation of stability of the machine and blocks any manoeuvre before the same reaches a critical condition.

■ C-5.2.1 Description of the controls

- 1 Calibration selection button
- 2 Display
- 3 Stability indicator with LED-bar
- 4 Green light – power OK
- 5 Yellow light – calibration mode
- 6 Calibration confirmation button
- 7 Not used
- 8 Yellow light – outrigger position
- 9 Buzzer ON/OFF pushbutton
- 10 Red light –overload pre-alarm / alarm



The digit on display **2** shows the selected attachment or the alarm code.

■ C-5.2.2 Operation

When power is turned on, light **4** comes on. The display **2** remains off and the monitoring system runs a self-test before displaying digit **0** to warn that the system is activated.

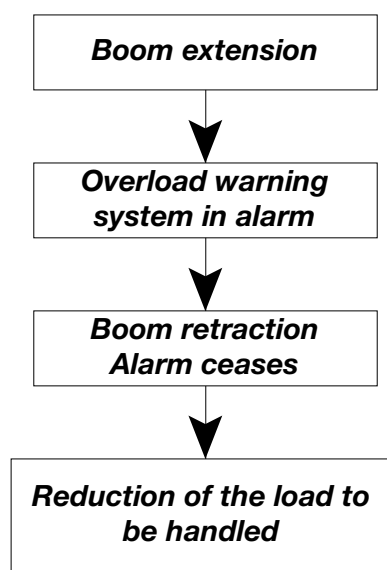
During operation, the led-bar **3** lights up gradually depending on the variation of stability.

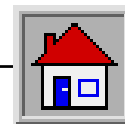
Green LED's: during normal operation when the percentage of overturning moment is between 0 and 89, these LED's are ON. The machine is stable.

Yellow LED's: they light up when the machine tends to overturn and the percentage of overturning moment with respect to the threshold value is between 90 and 100. The system enters the **pre-alarm** mode, light **10** flashes and the buzzer sounds with an intermittent sound.

Red LED's: risk of overturning: the percentage of overturning moment is above 100 with respect to the threshold value. The machine enters the **alarm mode**: light **10** is lit, the buzzer sounds continuously and any dangerous manoeuvre is blocked. The operator can only retract the load within safety limits.

Example of use of the stability indicator





DANGER

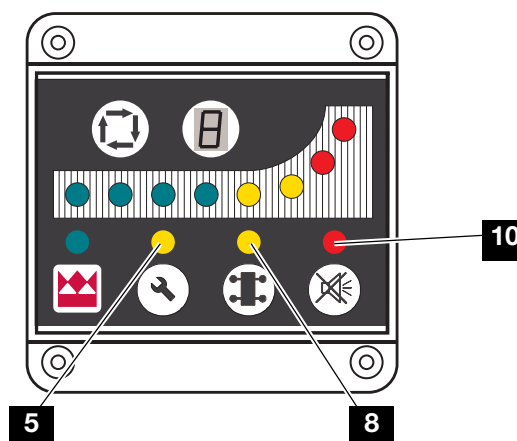
Before using the machine, make sure that the first green LED of the overload warning system is ON. The overload warning system must not be used to check the load going to be lifted: it has only been designed to signal possible unbalances of the machine along its motion axis.

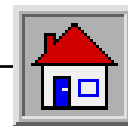
Such unbalances may also be caused by an abrupt operation of the levers during the load handling. If, during work, several indicators light up, operate the levers more smoothly.

■ C-5.2.3 Alarm codes and resetting

The limiter has diagnostic facilities to aid in the identification of failures of the transducers, breakages of the cables or defects of the electronic system. When a failure is signalled, the limiter enters the safety mode blocking any dangerous manoeuvres. Lights **5**, **8** and **10** start flashing, the buzzer start sounding and an error message is shown on the display.

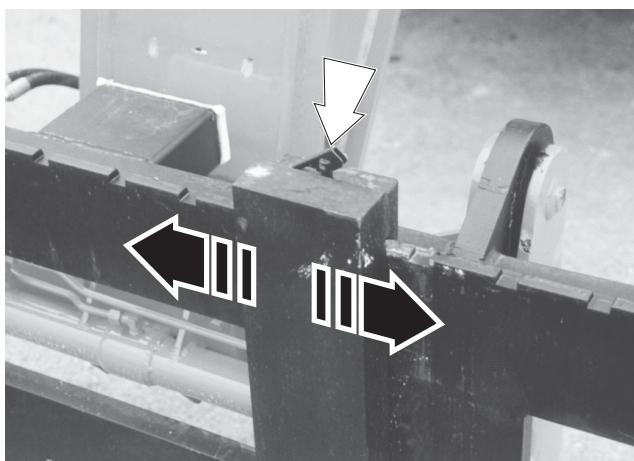
The meaning of the error messages is shown in Section **E "Faults and Troubleshooting"**



**OPERATING INSTRUCTIONS****■ C-5.3 HANDLING LOADS****■ C-5.3.1 Adjusting the forks**

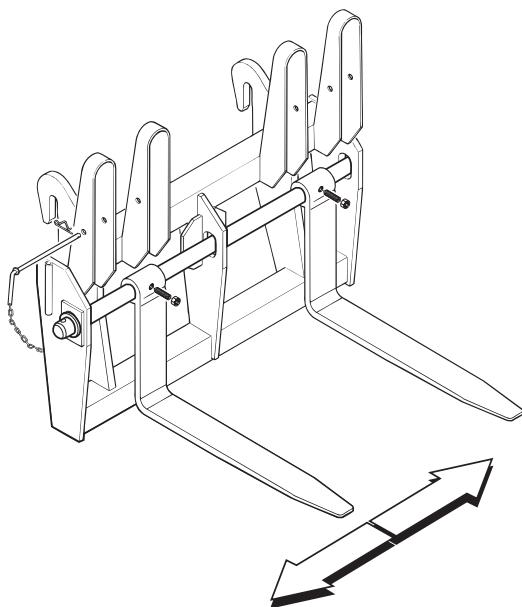
Forks shall be spaced to suit the load going to be handled. For this purpose:

- Lift the clamping lever of the forks.
- Slide the forks to the desired position, then re-lock the lever.

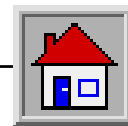


In the case of floating forks:

- Loosen the nut of the locking screws.
- Raise the forks and slide them on the pivot until correct spacing.
- Lock the screws re-tightening the nut.

**CAUTION**

- *The centre of gravity of the load must always be halfway between the forks.*
- *Ensure you exactly know the weight of the load before handling it.*
- *When extending the boom, do not exceed the payload limit.*
- *Refer to the payload limits given in the load chart applied on the cab windscreen or in the quick user's guide.*
- *Space the forks as wide as possible to suit the load being handled.*



OPERATING INSTRUCTIONS

■ C-5.3.2 Working phases

When forks are correctly spaced, the handler is ready to use.

Work can be subdivided into three different phases: loading, transfer and unloading.

Loading phase

- Approach the load to the handled perpendicularly and check that the machine is level on the inclinometer.
- Insert the forks under the load and raise the load some centimetres.
- Pitch the forks back and make sure that the overload warning system LEDs are in limits.

Transfer phase

- Do not start or brake abruptly.
- Drive to the unloading point cautiously and keep the load 20÷30 cm from the ground.
- Suit the machine speed to the ground conditions to avoid dangerous jumps, side skids of the vehicle and possible load falls.
- When driving on slopes or ramps, hold the load uphill.



Do not drive on slopes sideways; this wrong manoeuvre is one of the main reasons for accidents due to vehicle overturning.

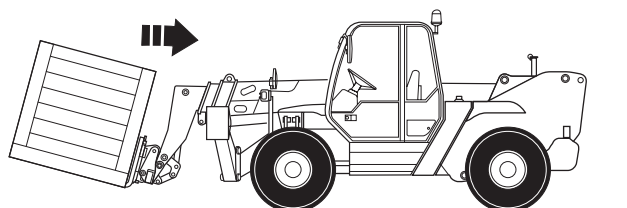
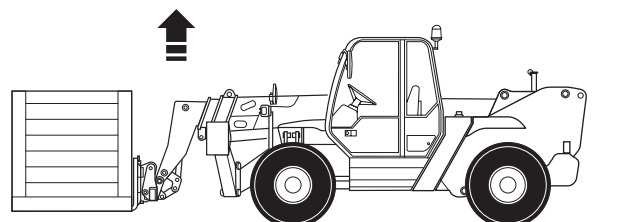
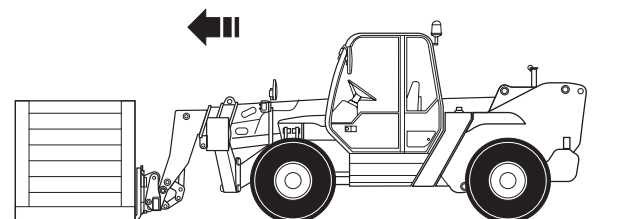
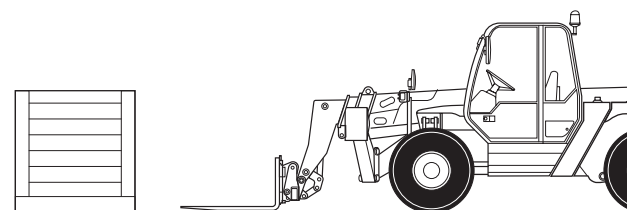
Unloading phase

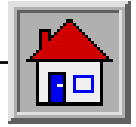
- Drive to the unloading point with straight wheels and bring the machine to a smooth stop leaving enough space to operate the boom.
- Put the parking brake and set the transmission to neutral.
- Position the load some centimetres above the desired position and set the forks level.
- Lower the load and make sure it is level.
- Carefully withdraw the forks by operating the boom retraction control and, if necessary, raise or lower the boom as forks come out.

- When the forks are clear of the load, set them to transfer position.
- Release the parking brake and start a new working cycle.



Do not move off when the load is raised 20÷30 cm above the ground. Risk of machine overturning or load fall.





■ C-5.4 CHANGING THE ATTACHMENT

ATTENTION

Use only attachments directly manufactured or recommended by Terexlift and detailed in the "Optional attachments" section.

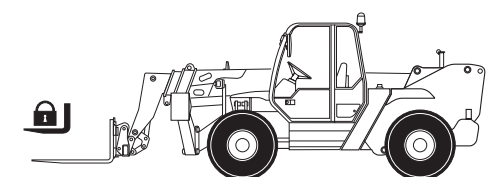
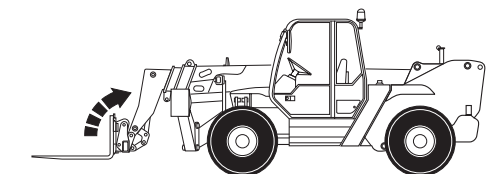
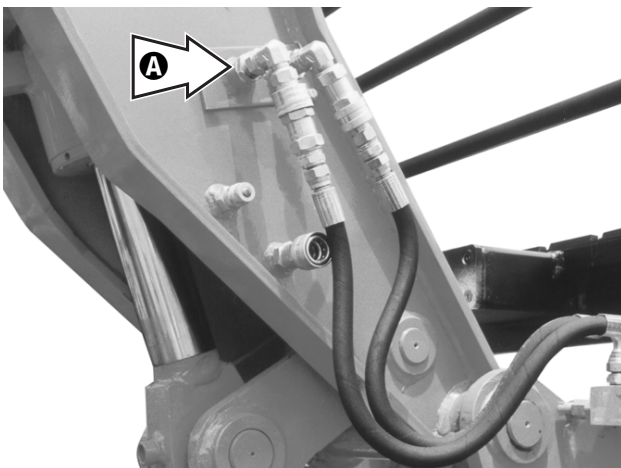
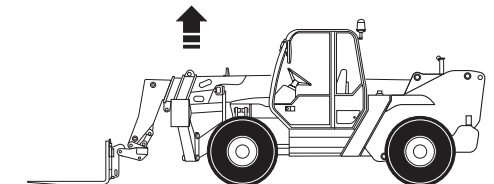
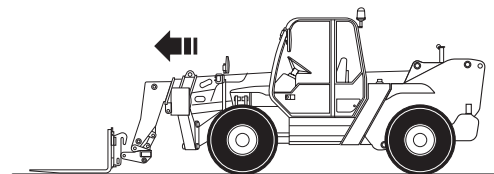
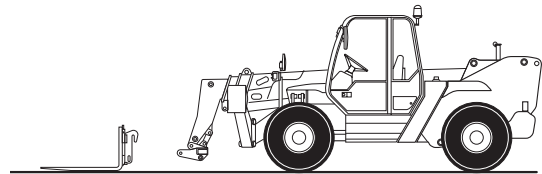
To change an attachment, operate as follows:

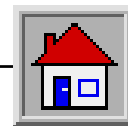
- Drive to the place where you will release the mounted attachment (when possible, a solid and sheltered site).
- Disconnect the quick connectors of the attachment (if any), and connect the hydraulic locking pipes of the attachments to couplings **A**.
- Rest the attachment flat on the ground.
- Pitch the attachment holding frame forward and lower the boom to release the attachment upper lock.
- Move back with the machine (or with the boom) and drive to the new attachment to be coupled.
- Hold the frame pitched forward and hook the upper lock of the new attachment.
- Retract and raise the attachment some centimetres. It will centre automatically on the quick coupling frame.
- Operate the control lever to lock the attachment.



CAUTION

After substitution, visually check the attachment is correctly coupled to the boom, before operating the machine. A wrongly coupled attachment may result in damage to persons or things.



**OPERATING INSTRUCTIONS**

- Couple the connectors of the attachment, if any, to the quick couplings of the frame.



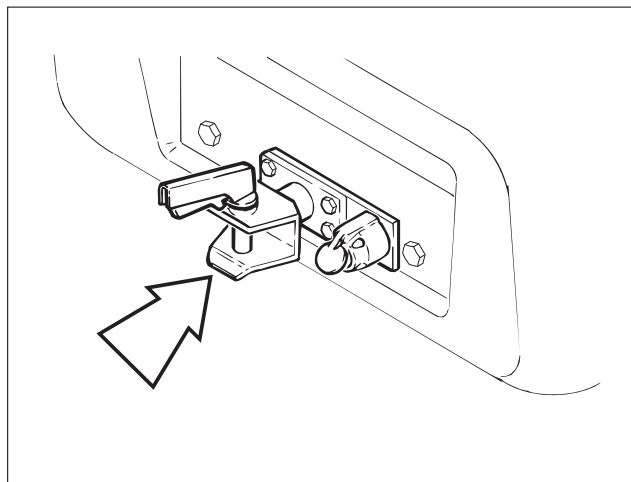
After the substitution of an attachment or after any coupling operation, visually check the attachment. A wrongly coupled attachment may result in damage to persons or things.

■ C-5.5 REAR TOWING HITCH (Agrilift 625)

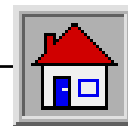
The machine is equipped with a fixed towing hitch of class **B**.

This hitch can tow 2 or 4 axle trailers with a maximum weight of 4000 kg.

Additionally it can be used for towing two-wheel carts with a maximum weight of 1500 kg.



- ***Do not tow too heavy trailers or loads.***
- ***The load on the drawbar must never be higher than 500 kg.***
- ***Avoid abrupt starts due to the high risks of rearing.***
- ***For your safety, do not tow trailers without an independent braking system.***
- ***Before moving back with the machine to hook the trailer, check that no one and nothing is between the machine and the trailer. The persons given the task of signalling must keep a safe distance and in a well visible position for the operator in the cab.***



OPERATING INSTRUCTIONS

■ C-6 TRANSPORTING THE MACHINE

■ C-6.1 MOVING A DISABLED MACHINE

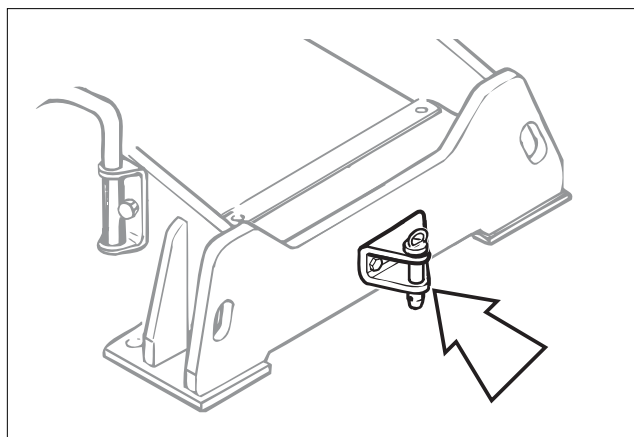
Tow the machine only when no alternative is possible, since this operation may result in serious damage to the transmission. When possible, repair the machine on site.

When the machine shall absolutely be towed:

- Unlock the negative brake (see chap. C-6.1.1)
- Tow the machine for short distances and at a low speed only.
- Use a rigid drawbar.
- Select the two-wheel steer.
- Set the gearbox lever to neutral.
- When possible, start the engine and use the hydraulic drive and the braking system.
- Raise the front wheels of the machine and remove the Cardan shaft of the transmission.

ATTENTION

In the Agrilift 625 version, there is a front towing hitch to be used to tow the disabled machine.

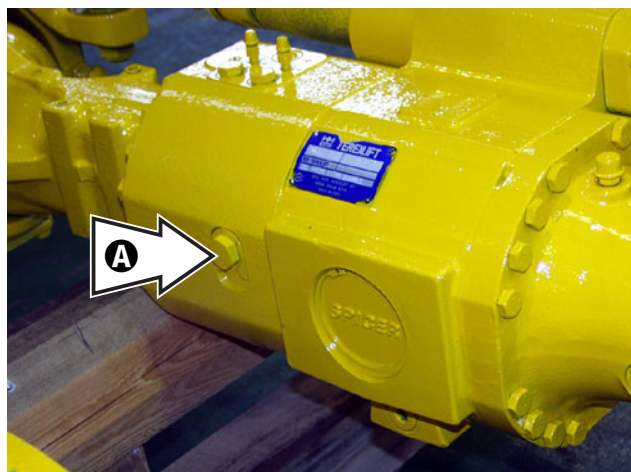


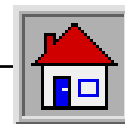
■ C-6.1.1 Unlocking the negative brake

To unlock the negative brake of a faulty machine, proceed as follows:

- Loosen the two opposite screws **A** located on the front axle in order to remove the washers.
- Remove the horseshoe-shaped washers located under the two screws.
- Re-tighten screws **A** turning alternately the front screw and the rear screw 1/2 turn to unlock the brake.

To relock the negative brake, loosen the screws **A** turning alternately the front screw and the rear screw 1/2 turn, refit the horseshoe washers and re-tighten screws **A**.



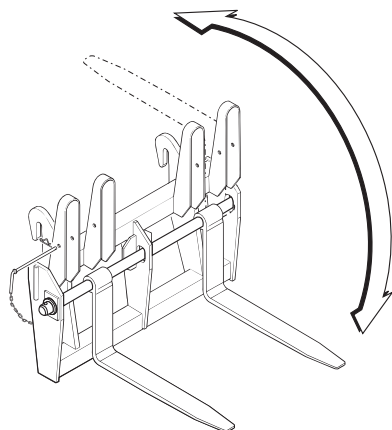


■ C-6.2 ROAD OR SITE TRANSFER

When travelling on public roads, strictly obey the local or national road traffic regulations.

Besides, take into account the following general precautions:

- Align the rear wheels.
- Select the two-wheel steer.
- Set the ROAD-JOBSITE switch **20** to "ROAD" (the light on the pushbutton comes on).
- Lock the machine as indicated in the Registration Card:
Lock the boom sections, the lifting cylinder, and the attachment rotation cylinder (see photo).
- Cover the teeth of the conventional forks with the special guard; or withdraw the floating forks.



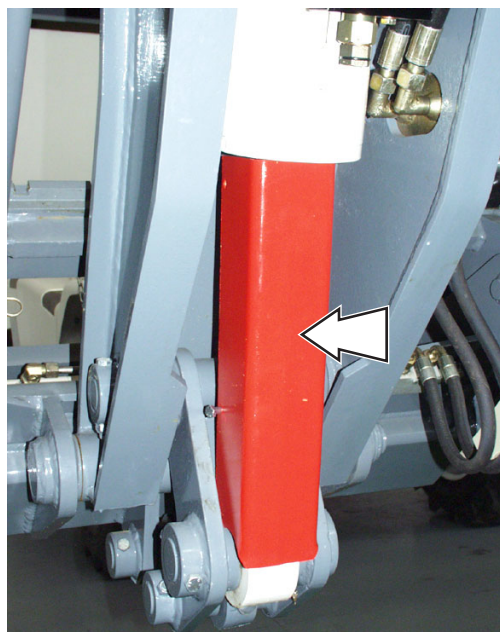
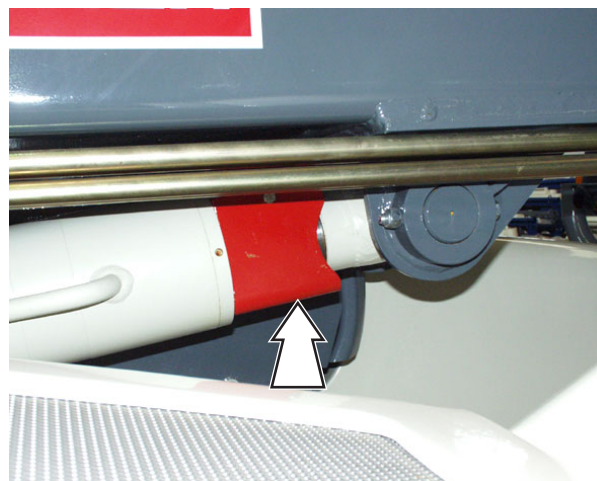
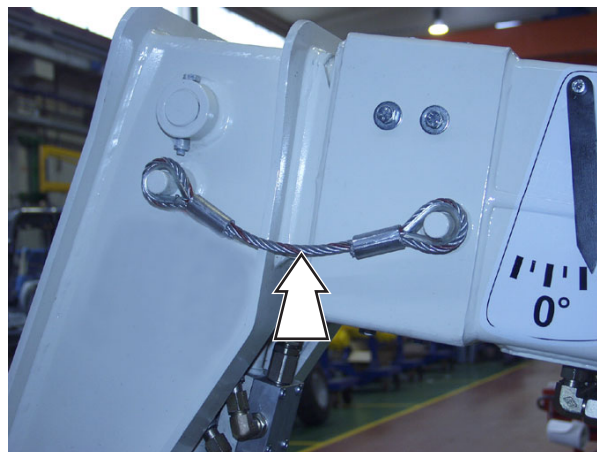
- Retract boom and attachment to transfer position.
- Make sure that lights, horn and turn signals are in working order.
- Start the machine (the beacon will switch on automatically).
- Select the forward or reverse speed.
- The transfer speed of the vehicle will depend on the engine rpm.

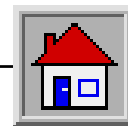


CAUTION

Public road circulation is allowed only for transferring an unloaded machine.

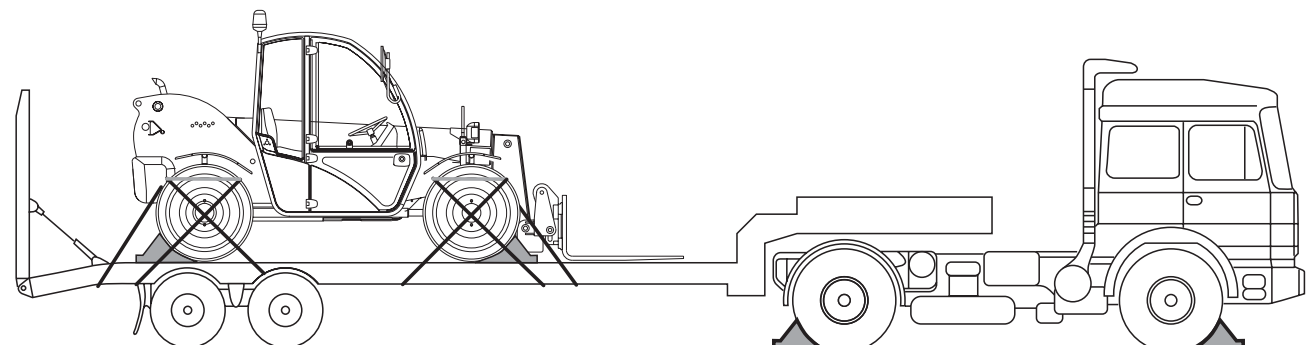
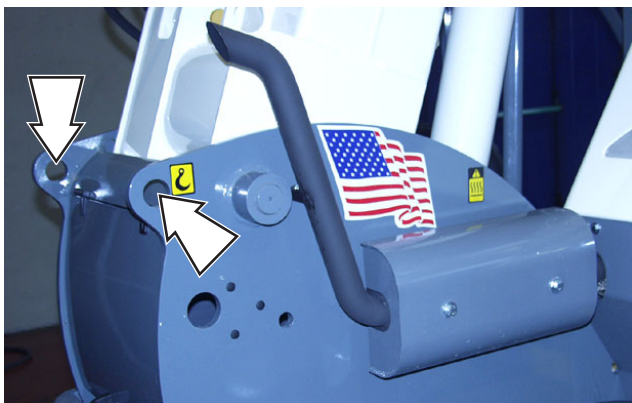
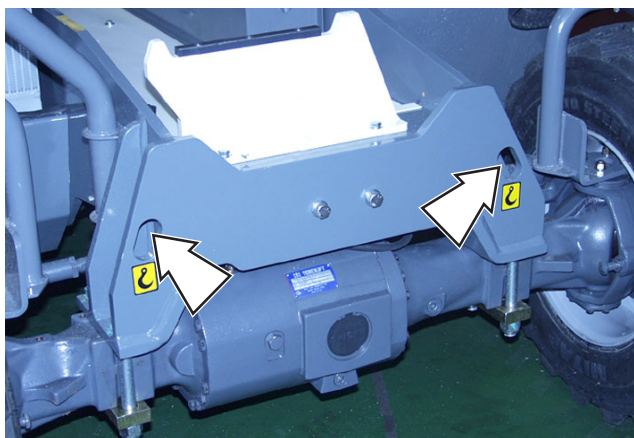
Do not use the Telelift 2506 for towing purposes.



**OPERATING INSTRUCTIONS****■ C-6.3 LIFTING THE MACHINE**

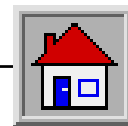
When the machine shall be lifted, use only means having a suitable capacity. The characteristic data are detailed in the relevant chapter of this manual and on the identification plate.

For the machine lifting, anchor the chains to the special lugs on the machine (marked with the decal below).

**■ C-6.4 TRANSPORTING THE MACHINE ON OTHER VEHICLES**

To transport the machine on another vehicle, follow the steps below:

- Put chocks at the machine wheels.
- Ensure ramps are correctly positioned.
- Retract the boom to transfer position.
- Carefully drive the machine onto the transporting vehicle.
- Put the parking brake and rest the attachment flat on the vehicle platform.
- Ensure the overall dimensions do not exceed the allowed limits.
- Shut the engine down and close the driving cab of the machine.
- Secure the machine to the vehicle platform by wheel-chocks.
- Anchor the machine to the transporting vehicle with suitable chains.

**OPERATING INSTRUCTIONS****■ C-6.5 PARKING AND STORAGE****■ C-6.5.1 Short inactivity**

Always park the machine in a safe way after a working day, a shift and at night.

Take all precautions to prevent damage to those persons who will approach the machine while stationary:

- Park the machine so that it does not hinder other operations.
- Lower the boom fitted with attachment on the ground.
- Remove the key from the ignition switch and lock the cab door.
- Disconnect the battery by the appropriate switch ("Battery cut-out switch").

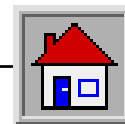
■ C-6.5.2 Machine storage

In case of extended inactivity of the machine, follow the above precautions. Additionally:

- Wash the machine thoroughly. For a better cleaning, remove grills and protection casings
- Carefully dry all machine parts by blowing some compressed air.
- Lubricate the machine thoroughly.
- Do a walk-around inspection and replace any worn or damaged part.
- Re-paint any worn or damaged part.
- Remove the battery, smear its terminals with vaseline and store it in a dry place. Battery can be used for other purposes. Otherwise, periodically check its charge level.
- Refuel the tank to prevent internal oxidation.
- Store the machine in a sheltered and well-ventilated place.
- Start the engine for about 10 minutes at least once a month.
- When weather is particularly cold, empty the radiator.

IMPORTANT

Always remember that the ordinary maintenance must be carried out even during the machine inactivity. Pay particular attention to the fluid levels and to those parts subject to ageing. Before re-starting the machine, carry out an extraordinary maintenance and carefully check all mechanical, hydraulic and electrical components.



OPERATING INSTRUCTIONS

■ C-6.6 CLEANING AND WASHING THE MACHINE

■ C-6.6.1 Cleaning instructions

Clean the machine in accordance with the following instructions:

- Remove any oil or grease traces with a dry solvent or a volatile mineral alcohol
- Before assembling a new part, remove any protection product (rust-preventer, grease, wax etc.).
- Remove any trace of rust from metal parts with some emery cloth before smearing the part with a protection product (rust-preventer, paint, oil etc.).

■ C-6.6.2 Washing instructions

External washing

Before washing the machine, check that the engine is shut down and the doors and windows are closed. Do not, at any times, use fuel to clean the machine. Use water or some steam. In cold climates, dry the locks after washing or smear them with an antifreeze. Before using the machine again, check its conditions.

Internal washing

Wash the machine interior with some water and a sponge. Do not use water at high pressure. After washing, dry with a clean cloth.

Washing the engine

Before washing the engine, protect the air intake filter to prevent water from entering the circuit.

■ C-6.7 MACHINE DISPOSAL



PROTECT THE ENVIRONMENT

At the end of the machine life, call in a specialised firm to dispose of it in compliance with the local or national regulations.

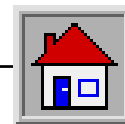
■ C-6.7.1 BATTERY DISPOSAL



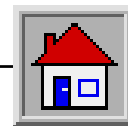
PROTECT THE ENVIRONMENT

Used lead-acid batteries cannot be disposed of as normal industrial solid wastes. Because of the presence of harmful substances, they must be collected, eliminated and/or recycled in accordance with the laws of the UE.

In Italy, used or discarded batteries have been classified as "Toxic wastes" in accordance with Presidential decree n. 397 of 09/09/1988 and Law n. 475 O.G. n. 18 of 09/11/1988 because they contain lead and sulphuric acid. Their disposal through recycling must be done only through companies authorised and belonging to the "Consorzio Obbligatorio Batterie Esauste e dei rifiuti piombosi" (Cobat) which collect and dispose of used lead-acid batteries throughout the national territory. Used batteries must be kept in a dry and confined place. Make sure the battery is dry and the cell plugs are tight. Place a sign on the battery to warn of not using it. If before disposal the battery is left in the open air, it will be necessary to dry, smear the box and the elements with a coat of grease and tighten the plugs. Do not rest the battery on the ground; it is always advisable to rest it on a pallet and cover it. The disposal of batteries shall be as rapid as possible.

**MAINTENANCE****Section D****MAINTENANCE****TABLE OF CONTENTS**

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**MAINTENANCE****INTRODUCTION**

A thorough and regular maintenance keeps the machine in a safe and efficient working condition.

For this reason, it is advisable to wash, grease and service the machine properly, especially after having worked under particular conditions (muddy or dusty environments, heavy operations, etc.).

Always ensure all machine components are in good condition. Check for oil leaks or loosening of guards, and make sure that the safety devices are efficient. In case of defects, find and rectify them before using the machine again.

The maintenance interventions are based on the machine working hours. Regularly check the hour-meter and keep it in good condition to define the maintenance intervals correctly.

Not respecting the ordinary maintenance schedule of this manual automatically voids TEREXLIFT warranty.

IMPORTANT

For the engine maintenance, please refer to the specific Operator handbook supplied with the machine.

D-1 LUBRICANTS - HEALTH AND SAFETY PRECAUTIONS**Health**

A prolonged skin contact with oil can cause irritation. Use rubber gloves and protective goggles. After handling oil, carefully wash your hands with soap and water.

Storage

Always keep lubricants in a closed place, out of the children's reach. Never store lubricants on the open air and without a label indicating their contents.

Disposal

New or exhausted oil is always polluting! Never drain oil on the ground. Store new oil in a suitable warehouse. Pour exhausted oil into cans and deliver them to specialised firms for disposal.

Oil leaks

In case of accidental oil leaks, cover with sand or type-approved granulate. Then scrape off and dispose of it as chemical waste.

First aid

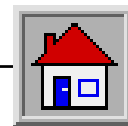
Eyes : In case of accidental contact with the eyes, wash with fresh water. If the irritation persists, seek medical advice.

Intake : In case of oil intake, do not induce vomiting, but seek medical advice.

Skin : In case of a prolonged contact, wash with soap and water

Fire

In case of fire, use carbon dioxide, dry chemical or foam extinguishers. Do not use water.



MAINTENANCE

D-2 ROUTINE MAINTENANCE

A wrong or neglected maintenance can result in possible risks for both operator and bystanders. Make sure maintenance and lubrication are carried out according to the manufacturer's instructions to keep the machine safe and efficient.

The maintenance interventions are based on the machine working hours. Regularly check the hour-meter and keep it in good conditions to define the maintenance intervals correctly. Make sure any defect detected during the maintenance is promptly rectified before using the machine.

ATTENTION

All "▲" marked operations must be carried out by a skilled technician.

During the first 10 working hours

- 1 Check the oil level within reduction gears, power divider and differential gears
- 2 Regularly check the tightening of the wheel bolts
- 3 Check the tightening of all bolts and nuts
- 4 Check the couplings for oil leaks

Within the first 50 working hours

- 1 Change the oil for the first time

Every 10 working hours or daily

- 1 Check the engine oil level
- 2 Clean the air suction filter
- 3 Clean the radiator, if necessary
- 4 Check the hydraulic oil level in the tank
- 5 Check the greasing of the boom section pads
- 6 Grease the attachment holding frame
- 7 Grease all joints of the boom, the rear axle shaft joint, the transmission shafts, the front and rear axles and any equipment of the machine
- 8 Check the efficiency of the lighting electric system
- 9 Check the efficiency of braking system and parking brake
- 10 Check the efficiency of the steering selection system
- 11 Check the efficiency of the fork balancing system.
- 12 Make sure the safety devices installed are in efficient working order - see procedure in [chap. D-3.15](#).

Every 50 working hours or weekly

Jobs to be done in addition to those above

- 1 Check the tension of the alternator belt
- 2 Check the tyre inflation
- 3 Check the tightening of the wheel nuts
- 4 Check the tightening of the Cardan shaft screws

Every 250 working hours or monthly

Jobs to be done in addition to those above

- 1 Change the engine oil and relevant filter
- 2 Check the oil level in the front and rear differential gears and the reducer
- 3 Check the oil level in the four wheel reduction gears
- 4 Check the condition of the canister of the engine air filter; renew the canister if necessary
- 5 Check the clamping of the cableheads to the battery terminals
- 6 Check the air suction hose between engine and filter
- 7 Check the cylinder chromium-plated rods
- 8 Check the hydraulic lines are not worn because of rubbing against the frame or other mechanical components
- 9 Check the electric cables do not rub against the frame or other mechanical components
- 10 ▲ Check the wear of the sliding pads of the boom sections
- 11 ▲ Adjust the play of the sliding pads of the boom sections
- 12 Remove any grease from the boom, then re-grease the sliding parts of the boom sections
- 13 Check the level of the battery electrolyte

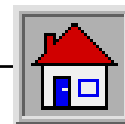
Every 3 working months

- 1 Check the efficiency of the block valves - see [chap. D-3.15](#).

Every 500 working hours or every six months

Jobs to be done in addition to those above.

- 1 Visually check the smoke quantity evacuated from the engine exhaust
- 2 Check the tightening of the engine fixing screws
- 3 Check the tightening of the cab fixing screws
- 4 Check the backlash between pins and bushings in all joints
- 5 Change the hydraulic oil filter of the transmission



MAINTENANCE

- 6 Change the hydraulic oil filter in the tank
- 7 Have the hydraulic system checked by a skilled technician
- 8 Change the main cartridge of the engine air filter
- 9 Clean or replace, if necessary, the air filter in the cab

Every 1000 working hours or yearly

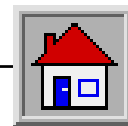
Jobs to be done in addition to those above

- 1 Change the oil in the front and rear differential units and in the power divider
- 2 Change the oil in the four wheel reduction gears
- 3 Change the hydraulic oil

■ D-2.1 OIL CHANGE SCHEDULE

	Job	operating hours*	service interval*	Oil type
Engine	Oil level check	10	daily	SHELL RIMULA 15W-40
	First change	50	-	
	Subsequent changes	250	monthly	
Axles and power divider	Oil level check	250	monthly	FUCHS TITAN GEAR LS 85 W-90 API GL-5 LS / GL-5
	First change	-	-	
	Subsequent changes	1000	yearly	
Hydraulic oil	Oil level check	250	monthly	SHELL TELLUS T 46 DENISON HF-1, DIN 51524 part 3 Cat. HV
	Subsequent changes	1000	yearly	

* whichever occurs first


MAINTENANCE
D-3 MAINTENANCE JOBS

DANGER

All maintenance interventions must be carried out with engine stopped, parking brake engaged, working attachments flat on the ground and gear lever in neutral.


CAUTION

When raising a component for maintenance purposes, secure it in a safe way before any maintenance intervention.


CAUTION

Any intervention on the hydraulic circuit must be carried out by skilled personnel.

The hydraulic circuit of this machine is fitted with pressure accumulators. You and others could be seriously injured if accumulators are not completely depressurised.

To depressurise the accumulators, just steer the machine wheels some times with engine shut down until noticing a gradual binding of the handwheel.


CAUTION

Before any operation on hydraulic lines or components, make sure there is no residual pressure. For this purpose, stop the engine, engage the parking brake and operate the control levers of the distributors in both working directions (alternately) to depressurise the hydraulic circuit.

ATTENTION

High pressure lines must be replaced by qualified personnel only.

Any foreign matters entering the closed circuit may result in a sudden deterioration of the transmission.

ATTENTION

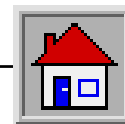
The qualified staff charged with the maintenance of the hydraulic circuit must clean all areas around with care before any intervention.


PROTECT THE ENVIRONMENT

The handling and disposing of used oils can be ruled by local or national regulations. Address to authorised centres.

D-3.1 DISCONNECTING THE BATTERY

During maintenance or repair works, and while welding, turn off the battery main switch, located behind the rear right wheel compartment (**C-4.5, p. C-25**).



MAINTENANCE

■ D-3.2 ACCESS TO THE ENGINE AND TANKS COMPARTMENTS

■ Engine compartment

For any operation within the engine compartment, open the protection bonnet.

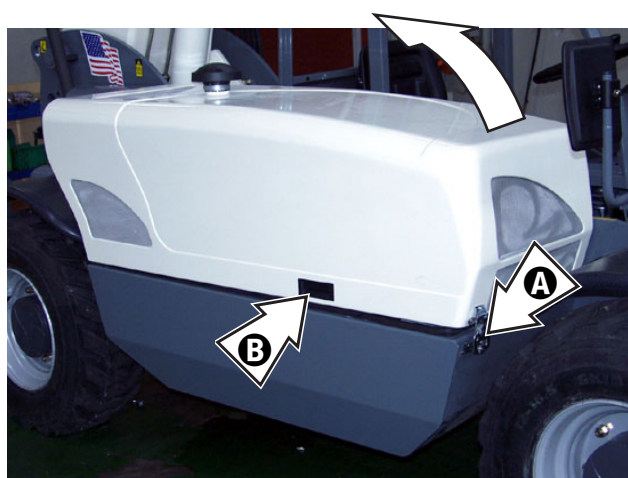
Hood is equipped with lock & key and a supporting rod that holds it in position.

From the engine compartment, you get access to:

- Thermal engine
- Engine air filter **C**
- Hydraulic oil tank plug
- Radiator fluid compensation cup
- Battery

To get access to the engine compartment:

- Shut the engine down and put the parking brake.
- Unlock the bonnet lock **A**
- Lift the bonnet using the special handle **B** until it latches in the gas spring.
- To close the bonnet: press on the green locking device **D** on the gas spring and lower the bonnet.



DANGER

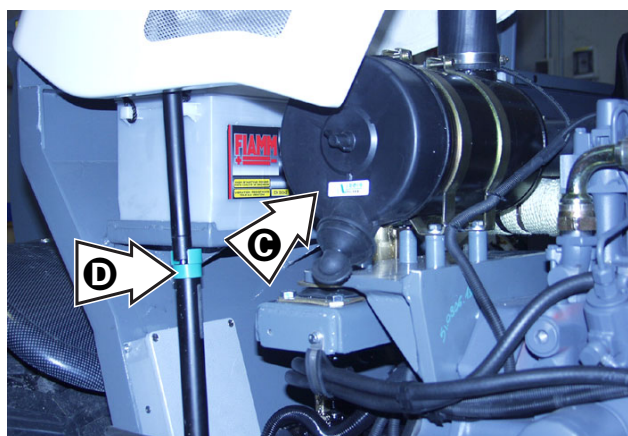
Take all precautions when approaching the engine compartment. Some parts of the engine may be very hot. Always use protective gloves.

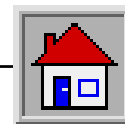


■ Diesel fuel tank compartment

To gain access to the fuel tank, open the rear cover of the machine **E** as follows:

- Shut the engine down and put the parking brake.
- Fully raise the cover by means of the special handle.





MAINTENANCE

■ D-3.3 GREASING

ATTENTION

Before injecting grease into the greasers, thoroughly clean them to avoid that mud, dust or other matters can mix with the lubricant and reduce or annihilate the lubrication effect.

Remove any old grease with a degreaser from the telescopes before smearing them with new grease.

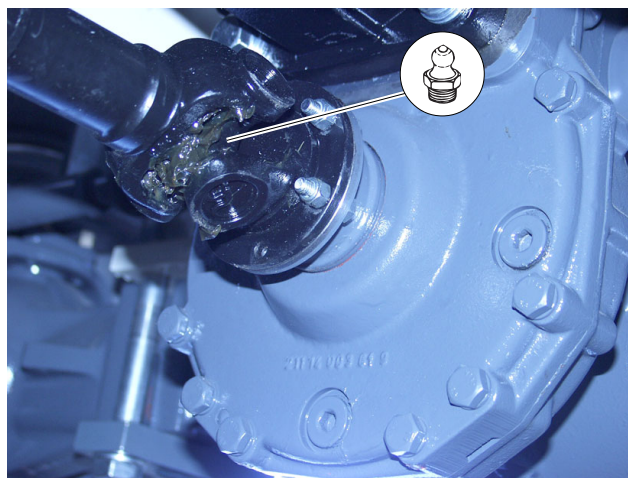
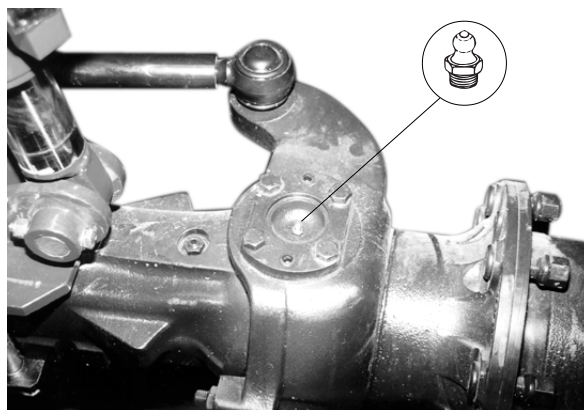
Regularly grease the machine to grant it efficient conditions and a long life.

By means of a pump, inject grease into the special greasers.

As the fresh grease comes out, stop the operation.

The greasing points are shown in the following figures:

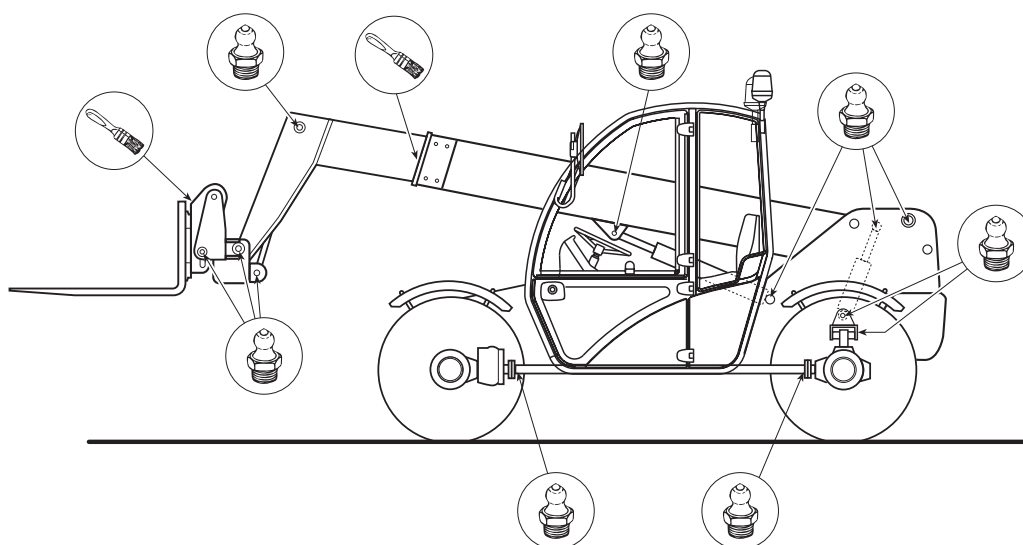
- the symbol  represents the points to be greased by a pump
- the symbol  represents the points to be greased by a brush.

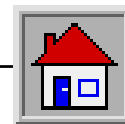


SERVICE INTERVAL

Running-in _____ None

Ordinary _____ Every 10 hours





MAINTENANCE

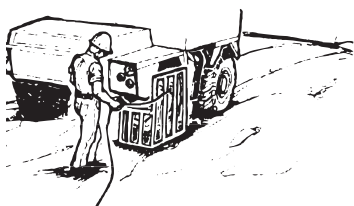
■ D-3.4 TYRES AND WHEELS



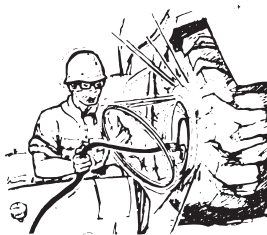
DANGER

Over-inflated or overheated tyres can burst. Do not flame-cut or weld the wheel rims. For any repair work, call in a qualified technician.

YES



NO



For the tyre inflation or substitution, please refer to the table below:

		AGRILIFT 625 TELELIFT 2506
Dimensions		12-16.5
Load index		pr 10
Rim		9.75x16
Wheel disc		8 holes DIN 70361
Pressure	bar	4.5
	Psi	65

On new machines, and when a wheel has been disassembled or replaced, check the nut torque of the wheels every 2 hours until they stay correct.

ATTENTION

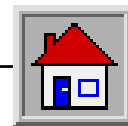
Always use tyres having the dimensions indicated in the vehicle registration card.



SERVICE INTERVAL

Running-in _____ Within the first **10** hours

Ordinary _____ Every **250** hours



MAINTENANCE

D-3.5 BRAKES

- For any intervention on the braking system (adjustment and/or substitution of the brake discs) call in a specialised technician.

The malfunctioning of the braking system may depend on the presence of air within the hydraulic circuit.

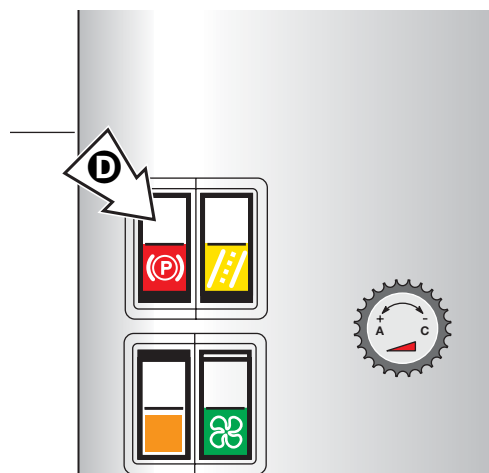
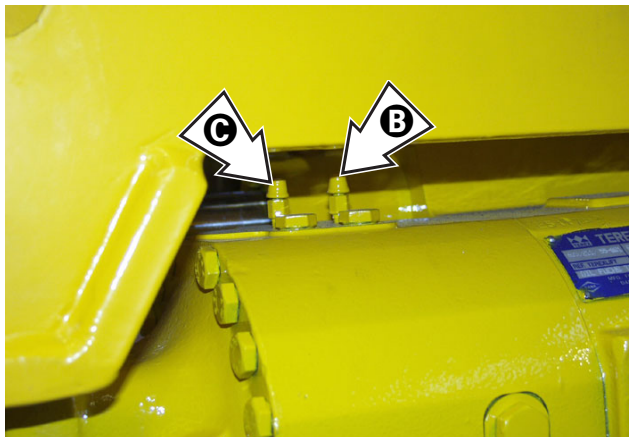
The braking system has two bleeding valves: valve **B** for the service brake circuit and valve **C** for the negative parking brake circuit.

To bleed the circuit of the service brake:

- Make sure that the oil is level within the feeding tank **A**.
- Step on the brake pedal repeatedly.
- Slowly unscrew valve **B** and re-close it as soon as oil mixed with air bubbles comes out.
- Repeat the operation until bubble-free oil comes out.
- Bleed from both sides of the machine.

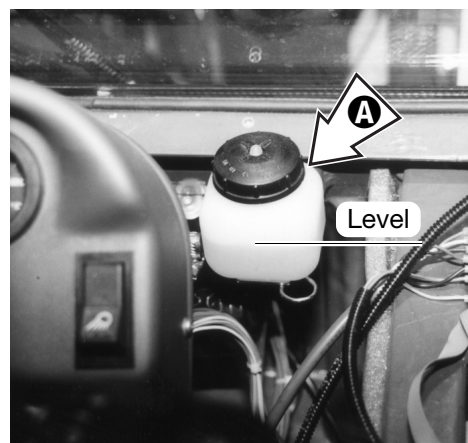
To bleed the circuit of the negative parking brake:

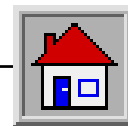
- Press the parking brake button **D**. As soon as the light indicator on the button goes off, start bleeding through valve **C** until air-free oil comes out.



D-3.5.1 Checking the brake oil level

The oil within the braking circuit must be at about 2 cm from the tank plug **A**.





MAINTENANCE

■ D-3.6 ENGINE AIR FILTER

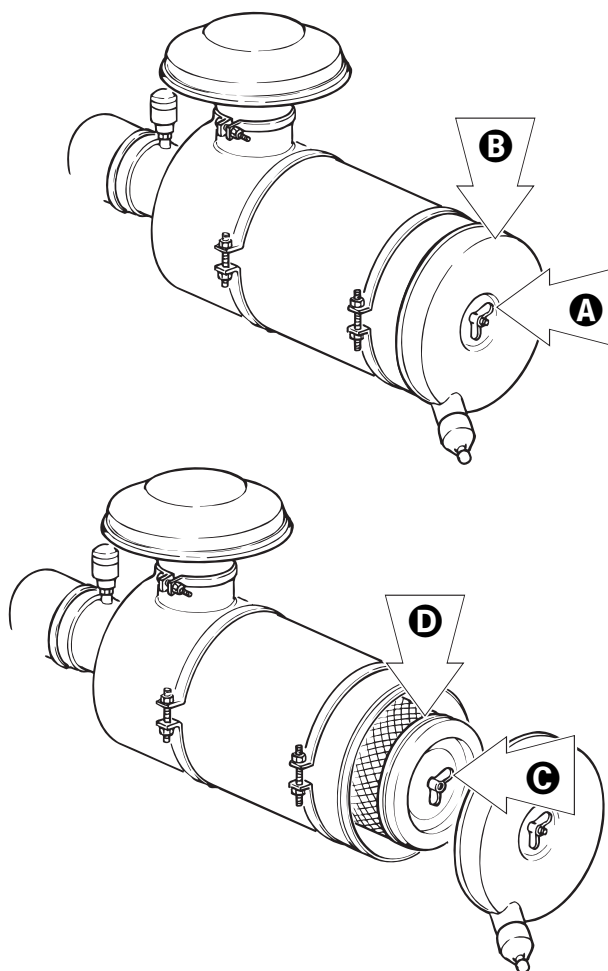
Clean the engine air filter every 10 hours; replace the filtering element, if necessary.

1 Cleaning and changing the external element:

- Stop the engine and engage the parking brake.
- Unscrew wingnut **A** and remove cover **B**.
- Unscrew wingnut **C** and remove the outer element **D**.
- Clean the filter bowl.
- Clean the cartridge by beating it some times on the ground paying attention not to damage the filtering element.
Do not dry-clean the filtering element.
- Check for cracks in the filtering element by introducing a lamp inside.
- Smear the seal with grease, then refit the element.
- Tighten wingnut **C**, close cover **B** and tighten with wingnut **A**.

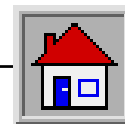
ATTENTION

As soon as the warning lamp on the cab dashboard switches on, replace the outer element.



SERVICE INTERVAL

Running-in _____ None
 Cleaning _____ Every 10 hours
 Filtering element substitution _ Every 500 hours

**MAINTENANCE****■ D-3.7 CAB AIR FILTER**

Every six months clean the air filter in the cab. Replace the cartridge if the filtering cloth is damaged.

1 Cleaning and changing the cartridge:

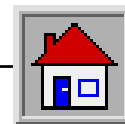
- Shut the engine down and engage the parking brake.
- Pull out the filter **A** located to the left of the driving place.
- Clean the filter bowl.
- Do not dry-clean the filtering cartridge.

ATTENTION

Do not, at any times, dry-clean the filters. Use some water and/or solvent.

**■ D-3.8 ENGINE COOLING CIRCUIT**

The cooling radiator is lubricated with the engine oil and does not need any maintenance.



MAINTENANCE

■ D-3.9 CHECKING THE OIL LEVEL IN THE TANK



DANGER

Fine jets of hydraulic oil under pressure can penetrate the skin. Do not use your fingers, but a piece of cardboard to detect oil leaks.

Check the hydraulic oil level (visually) through the special level **B** fitted into the tank.

When necessary, add new oil through filler **A**.



CAUTION

Check the oil level with handler set to transfer position (lowered boom and retracted telescopic element).



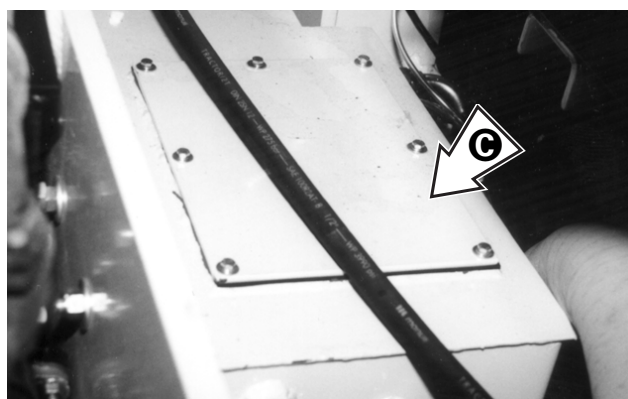
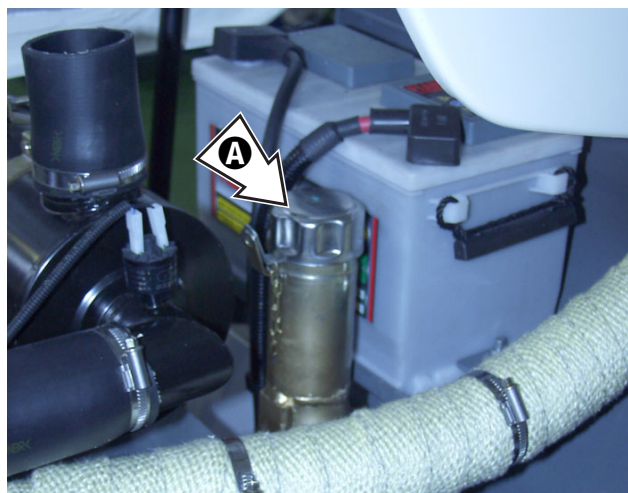
SERVICE INTERVAL

Running-in _____ Within the first 10 hours

Ordinary _____ Every 50 hours

If oil must be changed, proceed as follows:

- 1 Stop the machine on a level ground and make sure the parking brake is engaged.
- 2 Release the pressure from the hydraulic circuit.
- 3 Place a container of suitable size under the drain plug, placed in the lower part of the reservoir, and collect any oil leaks.
- 4 Remove the drain plug and allow oil to flow out into the container.
- 5 Remove the inspection cover of tank **C**.
- 6 Carefully wash the tank with Diesel oil and blow a jet of compressed air.
- 7 Refit the drain plug and the inspection cover.
- 8 Add new oil by making sure that it matches the recommended type indicated in paragraph D-5.2.2. until it is level with **B**.



PROTECT THE ENVIRONMENT

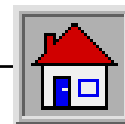
The handling and disposing of used oils can be ruled by local or national regulations. Address to authorised centres.



SERVICE INTERVAL

Running-in _____ None

Ordinary _____ Every 1000 hours



MAINTENANCE

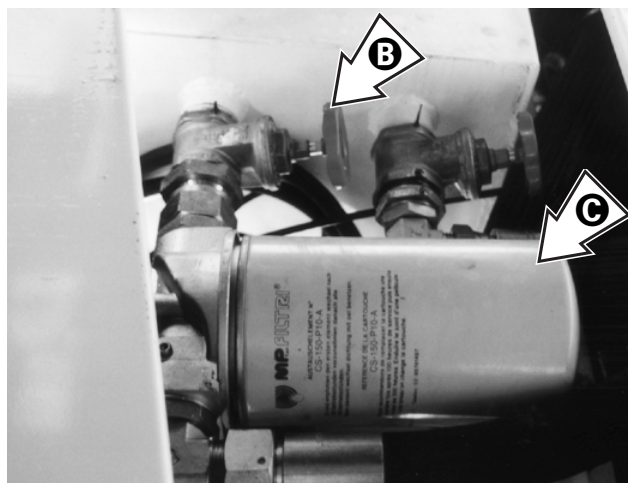
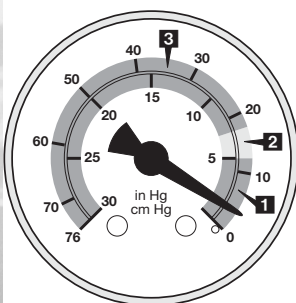
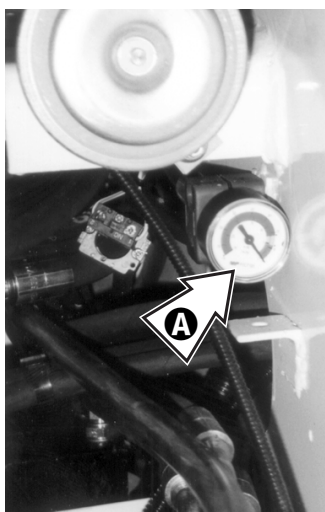
■ D-3.10 CHANGING THE OIL FILTER CANISTERS ON THE INTAKE LINE

■ D-3.10.1 Transmission oil filter

Every 50 hours, check the clogging degree of the filtering element using the vacuummeter **A**.

The indexed scale of the vacuummeter is divided into 3 areas:

- 1 - Green area:** Normal condition
- 2 - Yellow area:** Replace the filter as soon as possible
- 3 - Red area:** Shut the engine down to prevent damage to the hydraulic system. Change the filter and/or check for the fault reasons.



IMPORTANT

Hydraulic oil filter cartridges cannot be cleaned or washed and refitted.

They must be replaced with new ones of the type recommended by the manufacturer (see par. D-5.2.2).



PROTECT THE ENVIRONMENT

The handling and disposing of used oils can be ruled by local or national regulations. Address to authorised centres.

To change the hydraulic oil filter element on the suction line, proceed as follows:

- 1 Stop the machine on a level ground and engage the parking brake.
- 2 Place a container of suitable size under the filter to collect any oil leaks, then close cock **B**.
- 3 Remove the filtering element **C** using a wrench.
- 4 Change the filtering element, then, before fitting a new one, thoroughly clean and grease both seat and gasket.
- 5 Hand-tighten and re-open cock **B**.

IMPORTANT

When changing the oil, drain it when it is still hot and the polluting substances are in suspension.

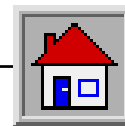


SERVICE INTERVAL

Running-in _____ None

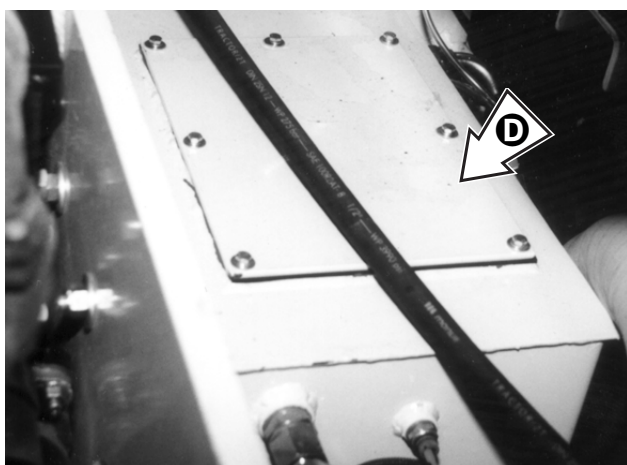
Ordinary _____ Every **500** hours

When the dashboard indicator switches on

**■ D-3.10.2 Auxiliary circuits oil filter**

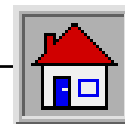
To change the hydraulic oil filter cartridge of the service circuits, proceed as follows:

- 1 Stop the machine on a level ground and engage the parking brake.
- 2 Remove the inspection hatch **D** and unscrew the oil filter fitted inside the tank.
- 3 Check the tank is clean, then fit a new filtering element and refit the inspection hatch.
- 4 Check the oil level within the tank. Add new oil, if necessary.

**SERVICE INTERVAL**

Running-in _____ None

Ordinary _____ Every **500** hours



MAINTENANCE

D-3.11 OIL LEVEL IN THE DIFFERENTIAL GEARS AND THE REDUCER

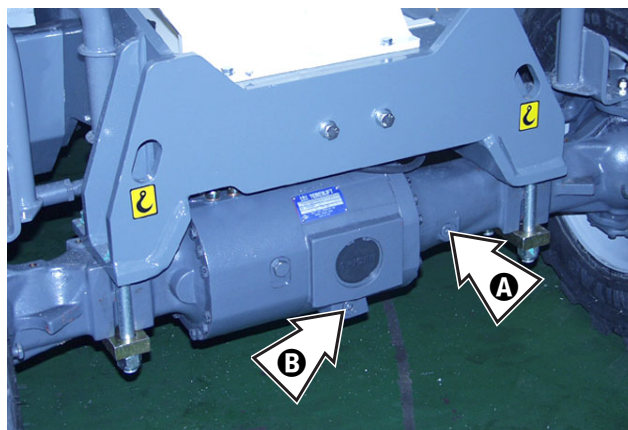
■ D-3.11.1 Front and differential gears

To check the oil level in the front and rear differential gears:

- Stop the machine on a level ground and engage the parking brake.
- Loosen level plug **A** and check if oil is level with the hole.
- If necessary, add new oil through the hole of the level plug until it comes out.
- Refit and tighten plug **A**.

For the oil change:

- Place a container of suitable size under drain plug **B**.
- Loosen the drain plug and the level plug **A** and allow oil to flow out from the differential gears.
- Refit and tighten drain plug **B**.
- Add new oil through plug **A** until it is level with the hole.
- Refit and tighten level/filler plug.



SERVICE INTERVAL

Running-in _____ Within the first 10 hours

Ordinary _____ Every 250 hours

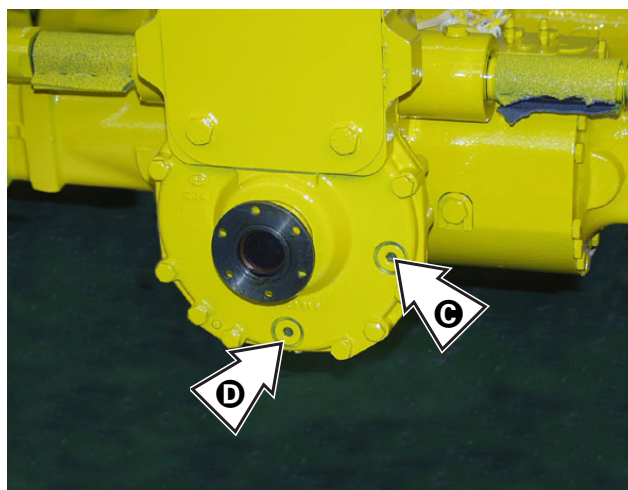
■ D-3.11.2 Reducer

To check the oil level in the reducer

- Stop the machine on a level ground and engage the parking brake.
- Loosen level plug **C** and check if oil is level with the hole.
- If necessary, add new oil through the hole of the level plug until it comes out.
- Refit and tighten plug **C**.

For the oil change:

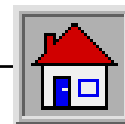
- Place a container of suitable size under drain plug **D**.
- Loosen the drain plug **D** and the level plug **C** and allow oil to flow out from the reduction gear.
- Refit and tighten drain plug **D**.
- Add new oil through plug **C** until it is level with the hole.
- Refit and tighten plug **C**.



SERVICE INTERVAL

Running-in _____ Within the first 10 hours

Ordinary _____ Every 250 hours



MAINTENANCE

■ D-3.12 OIL LEVEL IN THE (front/rear) WHEEL REDUCTION GEARS

To check the oil level within the wheel reduction gears:

- Stop the machine on a level ground and ensure the parking brake is engaged and plug **A** finds on the horizontal axis.
- Clean the plug all around, then remove it and check if oil is level with the hole.
- If necessary, add new oil through hole **A** until it is level.
- Refit the plug.

For the oil change:

- Stop the machine and ensure the plug is oriented along the vertical axis.
- Place a container of suitable size under the reduction gear plug.
- Unscrew plug **A** and drain any oil from the reduction gear.
- Rotate the wheel by 90° until the plug finds again on the horizontal axis.
- Add new oil through hole **A**.
- Refit and tighten plug **A**.



PROTECT THE ENVIRONMENT

The handling and disposing of used oils can be ruled by local or national regulations. Address to authorised centres.

IMPORTANT

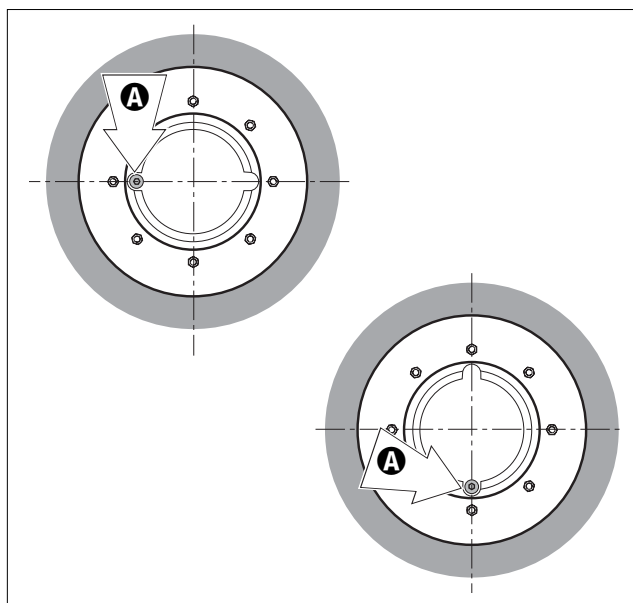
When changing the oil, drain it when it is still hot and the polluting substances are in suspension.

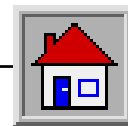


SERVICE INTERVAL

Running-in _____ Within the first **10** hours

Ordinary _____ Every **250** hours





MAINTENANCE

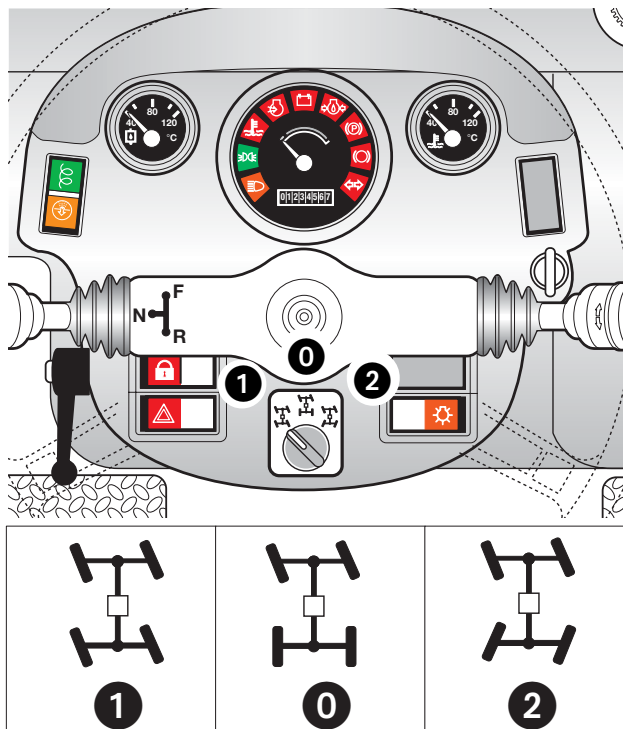
D-3.13 SHAFTING ALIGNMENT

During operation, the alignment of the front and rear axles of the machine can be subject to variations. This can depend on an oil blow-by from the steering control circuit, or on a steering of both axles when front and rear wheels are not perfectly aligned.

To fix this problem, rather than checking the alignment visually, follow the procedure below:

- 1) Move to a solid and level ground
- 2) Set the steering selection switch **11** to “**four-wheel steer**” (pos. **2**)
- 3) Rotate the steering up to its stop (either to the right or to the left)
- 4) Set the steering selection switch to “**two-wheel steer**” (pos. **0**)
- 5) Rotate the steering up to its stop (turn in the same direction as above)
- 6) Reset the steering selection switch to “**four-wheel steer**” (pos. **2**)
- 7) Rotate the steering (to the side opposite to point **3**) so that the rear axle reaches its stop
- 8) Reset the steering selection switch to “**two-wheel steer**” (pos. **0**)
- 9) Rotate the steering (to the same side as in point **7**) so that the front axle reaches its stop
- 10) Reset the steering selection switch to “**four-wheel steer**” (pos. **2**)

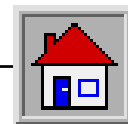
Now the wheels should be re-aligned.



SERVICE INTERVAL

Running-in _____ None

Ordinary _____ When necessary



MAINTENANCE

■ D-3.14 ADJUSTING THE SLIDING PADS OF THE BOOM SECTIONS

Any boom section is fitted with adjustable pads located on the four sides of the profile. These pads are secured to both fixed and mobile part of every section.

All pads can be adjusted by the special shims supplied by TEREXLIFT upon demand.

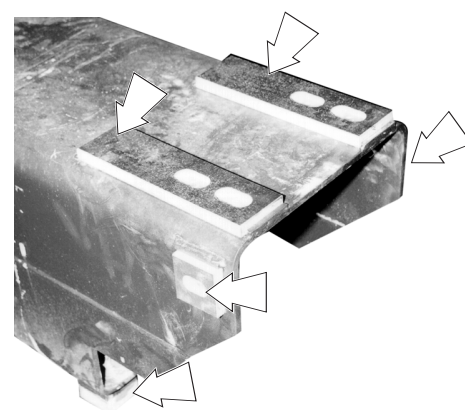
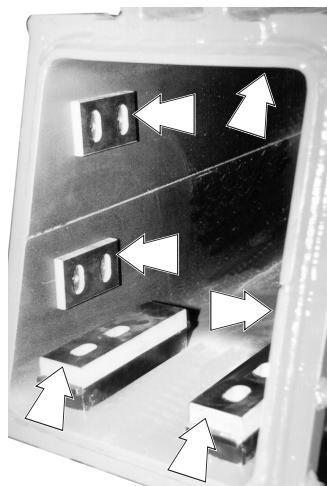
Adjusting the pads:

- Remove or loosen the screws fixing the pads in relation to type of shims used (with or without slots).
- Fit the necessary amount of shims.
- If the residual thickness of the pad is insufficient or near the maximum wearing limit, renew the pad.
- Tighten the screws fixing the pads at the recommended torque (see below). Use a dynamometric wrench.

Tightening torques of the pad screws in relation to the screw diameter

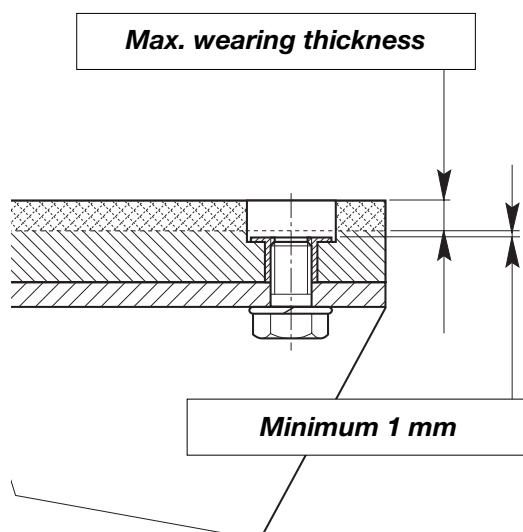
Screws M10	Nm 30
Screws M14	Nm 50

Tightening torques higher than those recommended can cause the break of the pad or of the locking threaded bush.



ATTENTION

Pads must compulsorily be replaced if the residual thickness of the plastic layer with respect to the iron bush fixing the block is equal or inferior to 1 mm.



SERVICE INTERVAL

Running-in _____ None

Ordinary _____ When necessary

MAINTENANCE

■ D-3.15 CHECKING THE SAFETY DEVICES

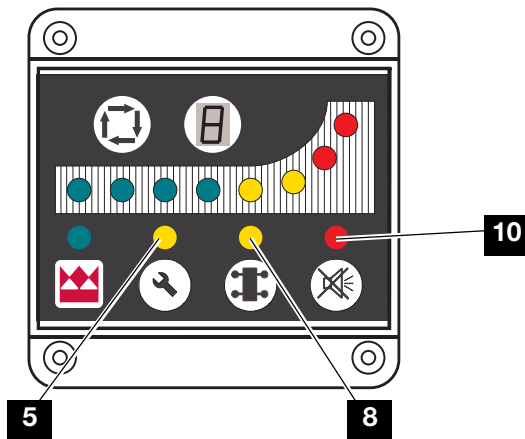
■ Checking the load limiting system

(at every use)

When power is turned on, the DLE load limiting system runs a self-test. In the case of troubles, LED's **5**, **8** and **10** start flashing, the buzzer sounds, an error code is shown on the display and the machine enters the alarm mode and cannot be operated.

The meaning of the error messages is shown in Section **E "Faults and Troubleshooting"**.

To do a manual check, it will be enough to load a weight exceeding the maximum permitted with the boom fully out and attempt to lift it. The system shall enter in alarm; should that not be the case, contact TEREXLIFT Technical Service.



■ Checking the machine start control

(at every use)

Attempt to start the engine with the forward or reverse gear put.

The engine must not start. If the engine starts, contact the TEREXLIFT Technical Service.

Repeat the operation putting first one gear, then the other.

■ Checking the seat micro-switch (*only in the TCE version*)

(at every use)

To check if the seat micro-switch is in efficient working order, simply attempt to start the machine without being seated. The machine must remain stopped. Should that not be the case, contact TEREXLIFT Technical Service.

■ Checking the emergency stop pushbutton

(at every use)

To check the efficiency of this pushbutton, simply press it down during a movement. The pressure of the pushbutton shall cause the movement to stop and the engine to shut down. Should that not be the case, contact TEREXLIFT Technical Service.



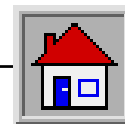
■ Checking the joystick pushbutton (*not present in the TCE version*)

(at every use)

To check if the pushbutton on the control lever is in efficient working order, it will be enough to attempt to operate the lever without pressing this button.

In this condition, the lever shall not operate any movement. Should that not be the case, contact TEREXLIFT Technical Service.





MAINTENANCE

■ Checking the block valves (every 3 months).

The piloted blocking valves allow to held the load in position in case of burst of a flexible hose.

To check the efficiency of a valve, proceed as follows:

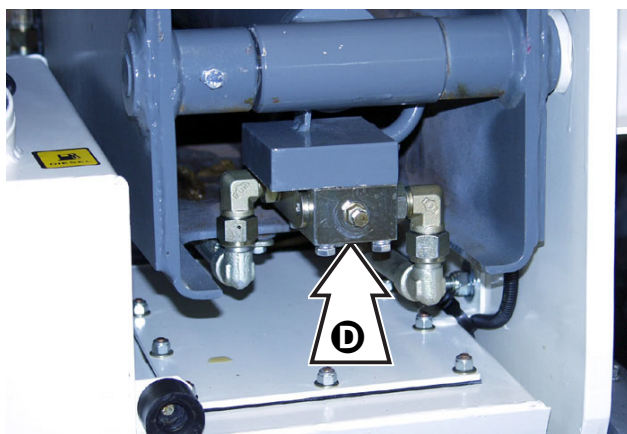
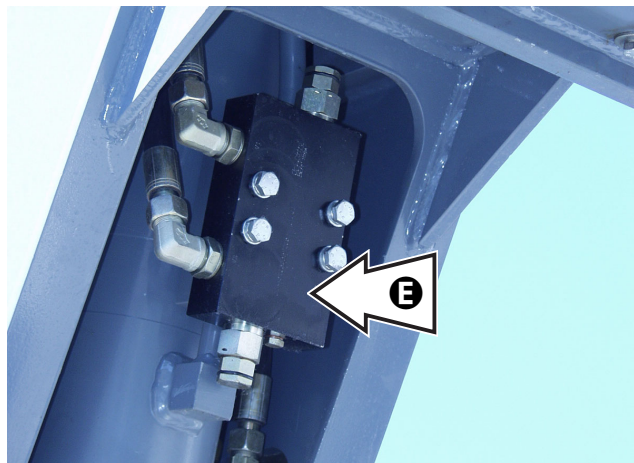
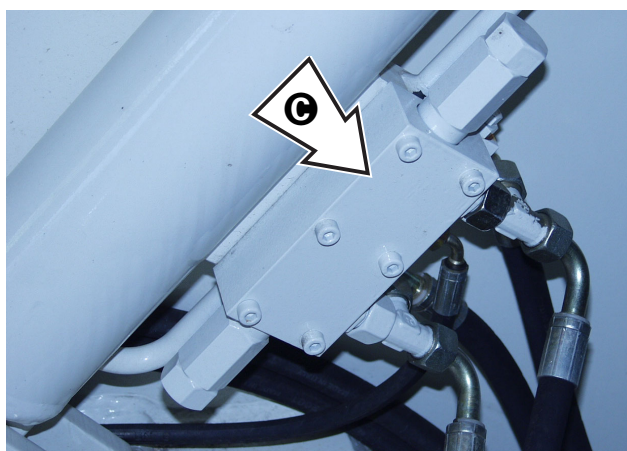
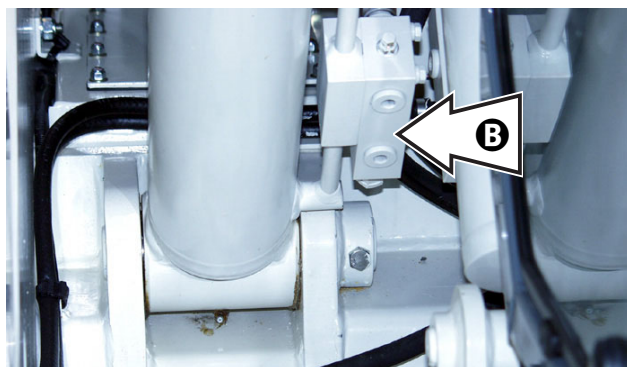
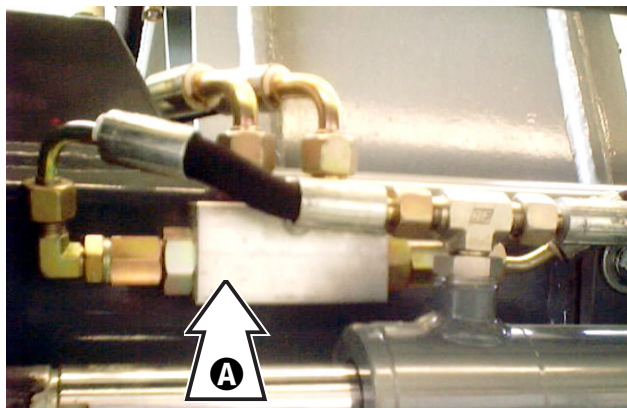
- Load a weight near the maximum payload (2000 kg roughly) onto the boom.
- Raise the load some centimetres above the ground (max 10 cm). To check the valve on the telescope extension cylinder move the boom to maximum height and extend it some centimetres.
- Loosen the oil hoses to the cylinder of which you are checking the valve with caution.

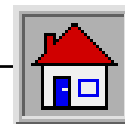
During the check, the oil will flow out of the hoses and the load shall remain blocked in position. Should that not be the case, the valve must be replaced. Contact TEREXLIFT Technical Service.



DANGER

- *Wear safety glasses*
- *Wear safety gloves*
- *Wear safety shoes*
- *Wear suitable working clothes*
- *Use guards against leaks of oil at high pressure*
- *Do the check in a free space with barriers all around to keep non-authorized people away*
- *During the check proceed with extreme caution.*
- *Ensure that the part to be checked is in safe condition and that the action generated does not result in an uncontrolled movement of the machine*




MAINTENANCE
D-4 ELECTRICAL SYSTEM

DANGER

All maintenance interventions must be carried out with engine stopped, parking brake engaged, working attachments on the ground and gearbox lever in neutral.


DANGER

When raising a component for maintenance purposes, secure it in a safe way before carrying out any maintenance.


DANGER

Before any operation on hydraulic lines or components, make sure there is no residual pressure. For this purpose, stop the engine, engage the parking brake and operate the control levers of the distributors (in both working directions alternately) to release the pressure from the hydraulic circuit.

D-4.1 BATTERY

- Check the electrolyte level every 250 working hours; if necessary, add distilled water.
- Ensure the fluid is 5÷6 mm above the plates and the cell levels are correct.
- Check the cable clips are well secured to the battery terminals. To tighten the clips, always use a box wrench, never pliers.
- Protect the terminals smearing them with pure vaseline.
- Remove the battery and store it in a dry place, when the machine is not used for a long time.


DANGER

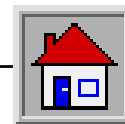
- *Battery electrolyte contains sulphuric acid. It can burn you if it touches your skin and eyes. Always wear goggles and protective gloves, and handle the battery with caution to prevent spillage. Keep metal objects (watch straps, rings, necklaces) clear of the battery leads, since they can short the terminals and burn you.*
- *Before disconnecting the battery, set all switches within the cab to OFF.*
- *To disconnect the battery, disconnect the negative (-) lead from the frame earth first.*
- *To connect the battery, connect the positive (+) lead first.*
- *Recharge the battery far from the machine, in a well-ventilated place.*
- *Keep out of items which can produce sparks, of naked flames or lit cigarettes.*
- *Do not rest metal objects onto the battery. This can result in a dangerous short especially during a recharge.*
- *Because the electrolyte is highly corrosive, it must never come in contact with the frame of the handler or electric/electronic parts. If the electrolyte comes in contact with these parts, contact the nearest authorised assistance centre.*


DANGER

Risk of explosion or shorts. During the recharge, an explosive mixture with release of hydrogen gas forms.


DANGER

Do not add sulphuric acid; add only distilled water.



MAINTENANCE

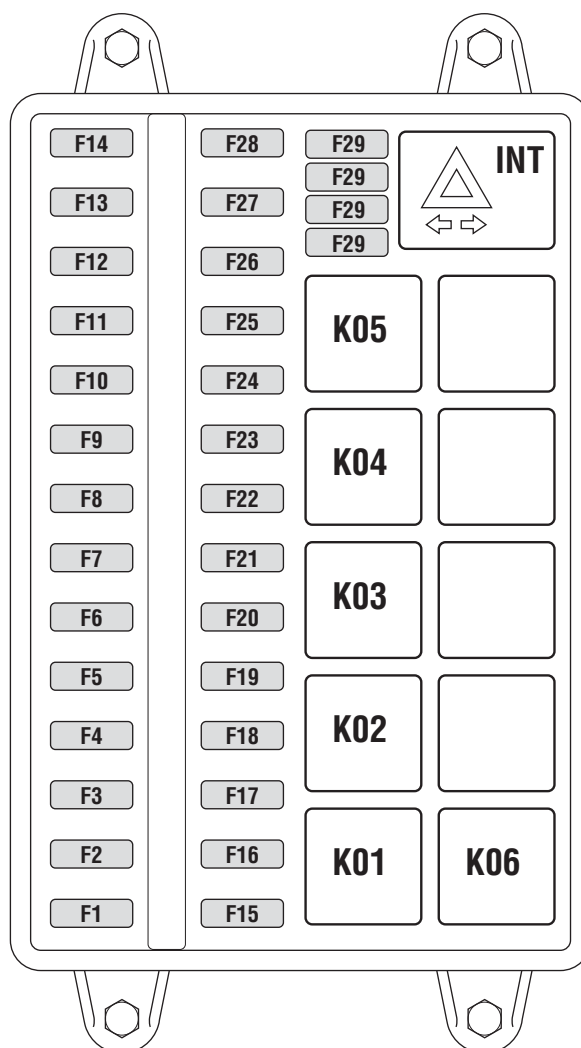
D-4.2 FUSES AND RELAYS

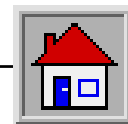
The electrical system is protected by fuses placed in the driving cab, on the left. Before replacing a blown fuse with a new one having the same amperage, find out and rectify the fault.

Fuses

Ref.	Circuit	Amp.
F1	Power supply: interior lamp, emergency switch, turn signals +30	15
F2	Power supply: K04 relay	7,5
F3	Optional	15
F4	Front right/rear left position lights, license plate lights, position lights indicator, engine oil temperature indicator	5
F5	Front left/rear right position lights, fuel gauge-hourmeter-warning lamps lighting, engine oil cooling temperature indicator light, fan switch, lights selection switch	5
F6	Right low beam	7,5
F7	Left low beam	7,5
F8	Right high beam	10
F9	Left high beam, High beam warning lamp	10
F10	Horn	15
F11	Windscreen washer kit	10
F12	Optional	-
F13	Optional	-
F14	Optional	-
F15	Preheating control unit power supply	5
F16	Power supply: hydraulic stop, fuel gauge-hourmeter-warning lamps indicator, engine oil cooling temperature indicator, engine oil temperature indicator	5
F17	K04 relay pickup, air filter warning light, preheating warning light, road safety switch	15
F18	Power supply: hazard warning light and turn signals switch +15	15
F19	Power supply: light switch - windscreen washer switch, windscreen washer motor	15
F20	Heating system fan power supply	7,5
F21	Road safety switch power supply	10
F22	Power supply: beacon	10
F23	Engine stop mushroom-head button power supply	10
F24	Relay K02/Relay K05 power supply	7,5

Ref.	Circuit	Amp.
F24	Relay K06 power supply	5
F25	Parking brake switch power supply	10
F26	Optional	-
F27	Optional	-
F28	Optional	-
F29	Spare fuses	-





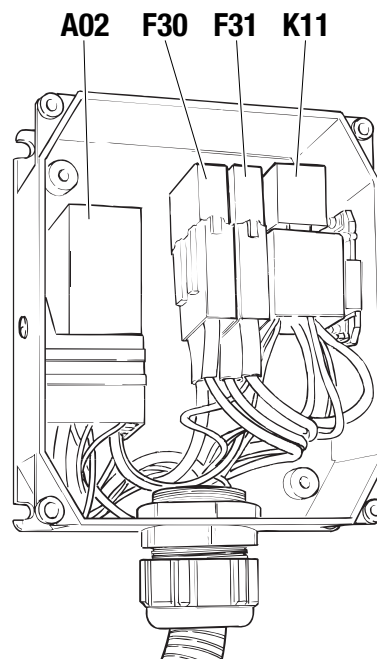
MAINTENANCE

■ Engine compartment fuses and relays

Ref.	Circuit	Amp.
F30	Preheating control unit maxifuse	50
F31	System protection fuse	50
K11	Start relay	
A02	Preheating control unit	

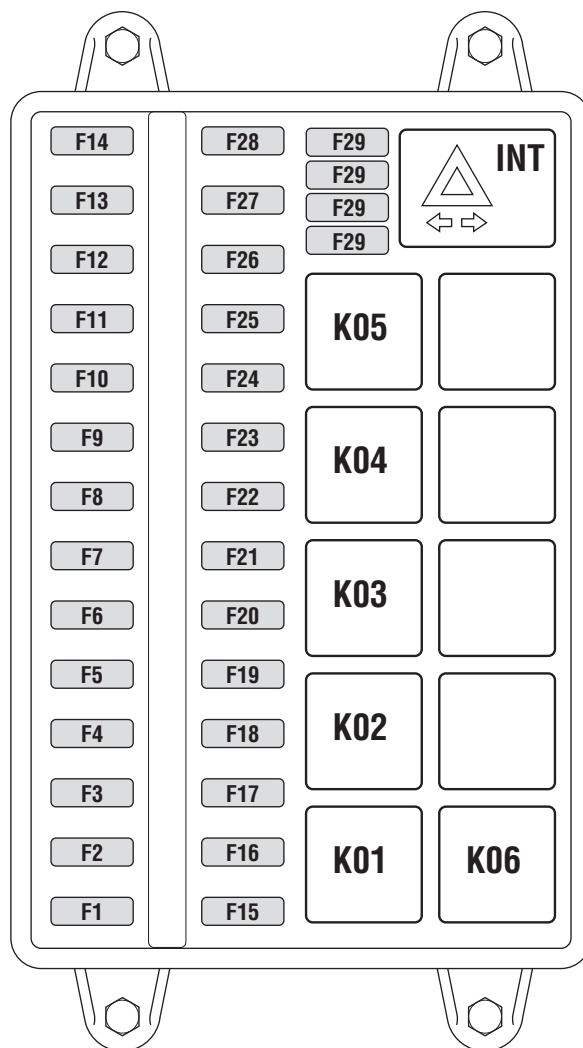
■ Fuse box relays

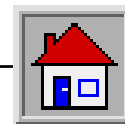
Ref.	Circuit
K01	Starting enabling command
K02	Forward speed enabling command
K03	Inhibition with brake pedal stepped down
K04	Overload warning system control unit enabling command
K05	Reverse speed enabling command
K06	Overload warning system solenoid valve enabling command



ATTENTION

- **Do not use fuses having a higher amperage than that recommended, since they can damage the electric system seriously.**
- **If the fuse blows after a short time, look for the fault source by checking the electric system.**
- **Always keep some spare fuses for an emergency.**
- **Never try to repair or short blown fuses.**
- **Make sure the contacts of fuses and fuse-sockets ensure a good electric connection and are not oxidised.**




MAINTENANCE
■ D-4.3 12V DC LAMPS

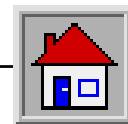
Use	Voltage	Mount type	Power
• Front low/high beam	12 V	P45t	45/40 W
• Front position lights	12 V	BA 9s	3 W
• Side/tail turn signals	12 V	BA 15s	21 W
• Stop lights and rear position lights	12 V	BAY 15d	21/5 W
• Beacon - Work lights (OPTIONAL)	12 V	H3	55 W
• Dashboard indicators and cab lighting	12 V	W 2x4,6d	1,2 W
• Interior lamp	12 V	SV 8,5-8	5 W
• License plate lights	12 V	BA 15s	5 W
• Back-up lamps	12 V	BA 15s	21W


CAUTION

When switched on, lamps get hot. Before touching a lamp with your fingers, let it cool down.

IMPORTANT

Never touch the bulb of halogen lamps (mount type H3) with your fingers: this may damage the lamp (use of a clean cloth or a paper tissue). If you touch it accidentally, thoroughly clean with a paper tissue and some ethyl alcohol.


MAINTENANCE
D-5 REFUELLING
D-5.1 REFUELLING

<i>Part</i>	<i>Product</i>	<i>Capacity (litres)</i>	<i>Product specifications see par.</i>
Diesel engine	Engine oil	11 + 3.5	D-5.2.1
Fuel tank	Diesel fuel	60	D-5.2.3
Hydraulic system tank	Hydraulic oil	120	D-5.2.2
Front differential gear with reduction gear	Oil	6	D-5.2.2
Front differential gear	Oil	5	D-5.2.2
Front wheel reduction gears	Oil	1.5 + 1.5	D-5.2.2
Rear wheel reduction gears	Oil	0.7 + 0.7	D-5.2.2
Brake oil tank	Hydraulic oil	0.1	D-5.2.2

D-5.2 PRODUCT SPECIFICATIONS
D-5.2.1 Engine oil

Use the oil recommended by the Diesel engine Manufacturer (*see the relevant handbook delivered with the machine*).

At the delivery, the machine is refilled with:

SHELL RIMULA 15W-40

D-5.2.2 Lubrication oils and relevant filtering elements

Refill the machine with following lubricants:

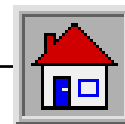
<i>Use</i>	<i>Product</i>	<i>Definition</i>
Power divider-Differential gears-Reduction gears	FUCHS TITAN GEAR LS 85 W-90	API GL-5 LS / GL-5
Hydraulic system and brakes	SHELL TELLUS T 46	DENISON HF-1 DIN 51524 part 3 Cat. HV

ATTENTION

Never mix different oils: this may result in troubles and component breaks.

Filtering elements:

<i>Filter</i>	<i>Flow l/1'</i>	<i>Filtering</i>	<i>Code</i>
Transmission oil filter	MPS 150	10 µ	09.4604.0001
Auxiliary circuit oil filter (inside the tank)	STR 100/1	60 µ	09.4604.0004



■ D-5.2.3 Fuel

Use only Diesel fuel with less than 0.5% sulphur content, according to the specifications of the diesel engine operation handbook.

ATTENTION

In cold climates (temperature under -20 °C) use only "Arctic" type Diesel fuel, or oil-diesel fuel, or oil-diesel fuel mixtures. The composition of the latter can vary in relation to the ambient temperature up to max. 80% oil.

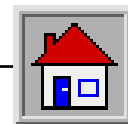
■ D-5.2.4 Grease

For the machine greasing, use:

- | | |
|-----------------------|-------------------------|
| • Lithium - based | When greasing by pump |
| Vanguard LIKO grease, | |
| type EP2 | |
| • Graphitized SHELL | When greasing by brush |
| grease, type GR NG 3 | |
| • INTERFLON FIN | For the telescopic boom |
| GREASE LS 2 | sliding blocks |

ATTENTION

Avoid mixing greases of different type or features and do not use greases of lower quality.

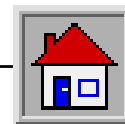


Section *E*

***FAULTS AND
TROUBLESHOOTING***

TABLE OF CONTENTS

E-1	FAULTS AND TROUBLESHOOTING	E-2
E-1.1	Fault - Cause - Solution	E-2



FAULTS AND TROUBLESHOOTING

■ E-1 FAULTS AND TROUBLESHOOTING

This chapter represents a practical guide for the operator for fixing the most common failures and, at the same time, detecting those interventions which must be carried out by qualified technical engineers. If you are unsure about anything, do not carry out operations on the machine, but call in a skilled technician.

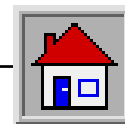


DANGER

Any repair work, maintenance or troubleshooting must be carried out with machine stopped, boom in rest position or laid on the ground, parking brake engaged and ignition key removed.

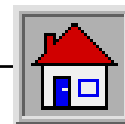
■ E-1.1 Fault - Cause - Solution

DASHBOARD DOES NOT SWITCH ON	• The 50A fuse F31 supplying power to the dashboard is blown (engine compartment) • Battery disconnected • Battery down • Battery cut-out switch OFF	• Replace the fuse • Connect the battery using the relevant switch • Check the battery • Switch it on
ENGINE DOES NOT START <i>Starter does not run</i>	• Parking brake not engaged • Battery down • Battery cut-out switch OFF	• Engage the parking brake and ensure the relevant indicator on the dashboard switches on • Recharge or replace the battery • Switch it on
ENGINE DOES NOT START <i>Starter runs, but engine does not start</i>	• Fuse F15 blown • No fuel • Diesel fuel filter clogged • Diesel fuel hose empty (fuel used up) • Solenoid valve - engine stop	• Check the fuse • Refuel • See DEUTZ engine operator manual • Refuel, then refer to DEUTZ engine operator manual • Check the solenoid valve; replace, if necessary
MACHINE DOES NOT MOVE	• Speed selector switch in neutral • Parking brake engaged • Fuse F23 blown	• Set the speed selector switch correctly • Disengage • Check the fuse; replace, if necessary
THE MACHINE DRIVE IS NOT ENOUGH	• Hydraulic oil filter clogged	• Replace the filter
NO SELECTION OF THE STEERING MODE	• Fuse F20 controlling the steering selection blown • "ROAD/JOBSITE" switch set to "ROAD"	• Sostituire il fusibile • Set to "JOBSITE"
"ROAD" FUNCTION ON, EVEN WHEN SELECTING THE "JOBSITE" FUNCTION	• No "ROAD/JOBSITE" selection	• Check and replace fuse F20, if necessary



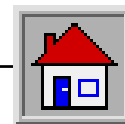
FAULTS AND TROUBLESHOOTING

NO BOOM LOWERING AND EXTENSION, NO HOLDING FRAME TILTING	• Fuse blown • Emergency button ON	• Replace fuses F2 and/or F24 • Reset the button
THE HYDRAULIC OIL THERMOMETER DOES NOT WORK	• This is normal, when the outside temperature is low and/or the machine is used for short periods, since the hydraulic oil cannot warm up over 40÷50°C	
THE PARKING BRAKE LIGHT DOES NOT LIGHT UP	• Fuse blown	• Check and replace fuse F2, if necessary
BOOM DOES NOT MOVE	• Fuse blown • "ROAD/JOBSITE" switch set to "ROAD" • Emergency button ON	• Check and replace fuse F22, if necessary • Set to "CAB" • Reset the button
THE LOAD LIMITING SYSTEM DOES NOT CHANGE WORK SCALE	• Outriggers limit switches inefficient	• Check the efficiency of the outrigger limit switches or replace if necessary.
THE LOAD LIMITING SYSTEM IS BLOCKED (red LED's lit)	• Low stability	• Retract the load within safety limits. If the error message is still shown, move the boom to rest condition operating the overload warning system cutout key and contact your nearest authorised service centre.
CHECKING THE MICRO-SWITCHES WHEN THE ARB IS IN ALARM, THE BOOM IN/OUT MOVEMENTS, THE OUTRIGGER UP-MOVEMENT AND THE MACHINE SWAY FUNCTION REMAIN ACTIVATED	• Check that the connectors are correctly plugged in the actuator	• If the connectors are plugged in correctly, contact the TEREXLIFT Technical Assistance
CHECKING THE MICRO-SWITCHES WITH THE BOOM RAISED 2 METRES ABOVE THE GROUND THE OUTRIGGER UP-MOVEMENT AND THE MACHINE SWAY FUNCTION REMAIN ACTIVATED	• Check that the connectors are correctly plugged in the actuator	• If the connectors are plugged in correctly, contact the TEREXLIFT Technical Assistance



FAULTS AND TROUBLESHOOTING

THE DLE LOAD LIMITING SYSTEM IS IN ALARM	• Fuse blown (F25 - 10 A) • System failure	• Check and replace fuse, if necessary
ERROR MESSAGES OF THE DLE LOAD LIMITING SYSTEM SHOWN ON THE DISPLAY	1 E2PROM error 2 The value read from CELL 1 is higher than max permissible 3 The value read from CELL 2 is higher than max permissible 4 Block relay error during operation 5-6-7-8 Block relay error when power is turned on 9 CELL 1 and CELL 2 reading incongruence. The values read from the two cells are different.	• Stop and restart the machine to RESET the system. If the error message is still shown, address to the TEREXLIFT service centre to re-calibrate the machine. • Check the wiring between control panel and load cell • Check that the load cell is fixed correctly • Check the connecting cable or the connectors is/are not shorted • If the error message is still shown, address to the TEREXLIFT service centre and let the load cell be checked. • Check the wiring between control panel and load cell • Check that the load cell is fixed correctly • Check the connecting cable or the connectors is/are not shorted • If the error message is still shown, address to the TEREXLIFT service centre and let the load cell be checked. • Check the efficiency of relay and wiring • Stop and restart the machine and check the outputs. If the error message is still shown, address to the TEREXLIFT service centre to replace the DLE unit. • Check the efficiency of relay and wiring • Stop and restart the machine and run a new test. If the error message is still shown, address to the TEREXLIFT service centre to replace the DLE unit. • Check that the cells are intact and fixed correctly. If the error message is still shown, address to the TEREXLIFT service centre to replace the load cell or re-calibrate the machine.

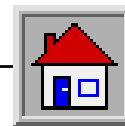


FAULTS AND TROUBLESHOOTING

	A Data error in RAM B Outrigger incongruence C Error in A.D.C. reading check	• Stop and restart the machine. If the error message is still shown, address to the TEREXLIFT service centre. • An input is not read. Check the wiring, the power cord and the connector of the DLE unit. If the error message is still shown, address to the TEREXLIFT service centre. • Stop and restart the machine. If the error message is still shown, address to the TEREXLIFT service centre.
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ATTENTION

In case of faults not listed in this chapter, address to the TEREXLIFT Technical Assistance, your nearest authorised workshop or dealer.

**Section *F*****OPTIONAL ATTACHMENTS****TABLE OF CONTENTS**

F-1.1	Shovel	F-3
F-1.2	Cereal shovel	F-4
F-1.3	Fixed hook on plate	F-5
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F-1.6	Forks with hydraulic side-shift	F-8
F-1.7	Fork with jaw	F-9

OPTIONAL ATTACHMENTS

INTRODUCTION

This section provides information on the optional interchangeable attachments, especially manufactured for the handlers.

Use only genuine attachments, described in this section, after having read their features thoroughly and understood their use.

To install and remove the attachments, follow the instructions supplied in the **OPERATION** section, par. C-5.4.



DANGER

When replacing interchangeable attachments, keep any person clear of the working area.



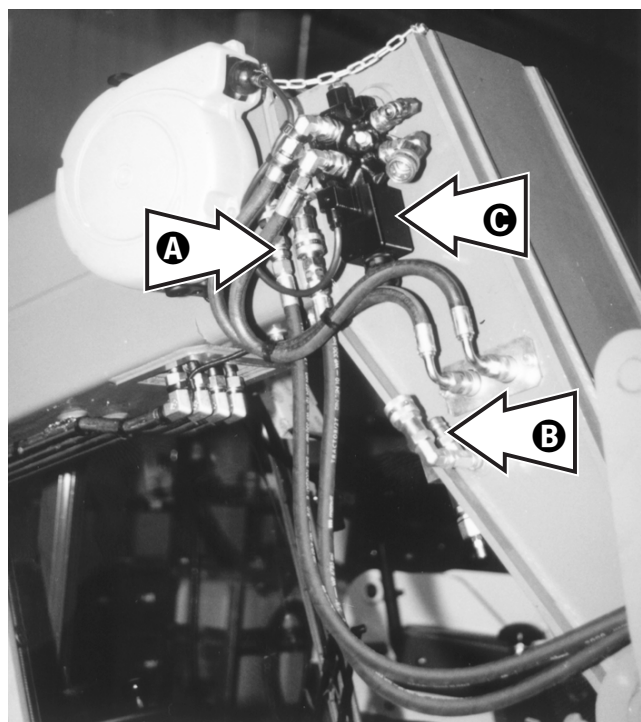
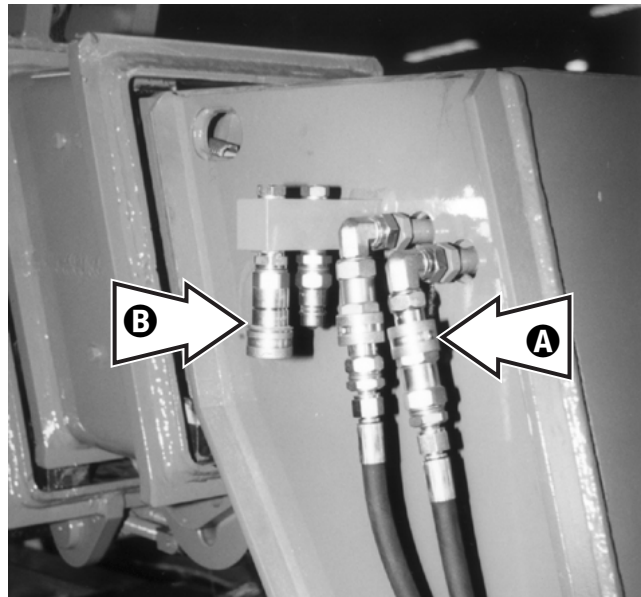
DANGER

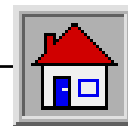
Mounting optional attachments, and especially the extension jib, can change the centre of gravity of the machine. Before handling a load, check its weight and compare it with the values on the load charts. The weight of the used attachment must always be deducted from the rated payload.

■ Procedure to connect hydraulic lines:

- Couple the new attachment and lock it hydraulically.
- Disconnect the quick couplings **A** of the attachment locking cylinder and connect them to the false connectors **B** to prevent them from getting dirty.
- Connect the feeding hoses of the new attachment to the quick couplings previously set free.

When the new attachment has two hydraulic motions like, for instance, the pole and pipe planter, a flow selecting valve **C** shall be installed on the machine or the attachment and operated from the cab by means of switch **22**.

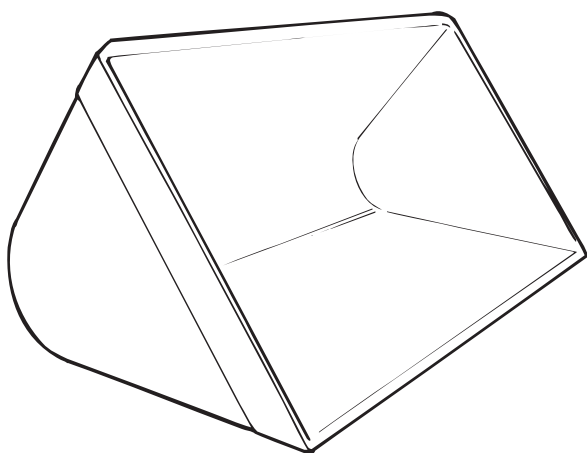




OPTIONAL ATTACHMENTS

■ F-1.1 SHOVEL

Code	Telelift 2506-Agrilift 625
Litres 500	59.0200.0000



Application

Quick-coupling fitted attachment for moving soil, sand, debris, cereals, etc.

Safety

Strictly obey the general safety precautions given in section **B** "SAFETY".

Operation

ATTENTION

When using a shovel, load the material only when the boom is completely retracted and push against the heap with straight wheels.

To load/unload the material, operate the rotation lever of the attachment holding plate.

Maintenance

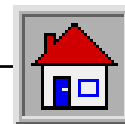
Visually check the shovel for damage before using it.

Technical data

Capacity	litres	500
A Width	mm	1850
B Length	mm	760
H Height	mm	700
- Weight	kg	290

ATTENTION

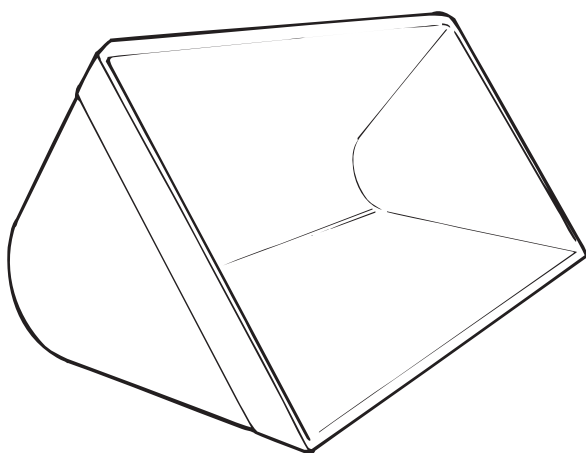
Attachment suitable for moving loose material. Do not use for digging operations.



OPTIONAL ATTACHMENTS

■ F-1.2 CEREAL SHOVEL

Code	Telelift 2506-Agrilift 625
Litres 800	59.0200.1000



Application

Quick coupling attachment for loading cereals or inert materials, etc.

Safety

Strictly obey the general safety precautions given in section **B** "SAFETY".

Operation

ATTENTION

When using a shovel, load the material only when the boom is completely retracted and push against the heap with straight wheels.

To load/unload the material, operate the rotation lever of the attachment holding plate.

Maintenance

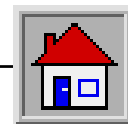
Visually check the shovel for damage before using it.

Technical data

Capacity	litres	800
A Width	mm	1850
B Length	mm	800
H Height	mm	1150
- Weight	kg	350

ATTENTION

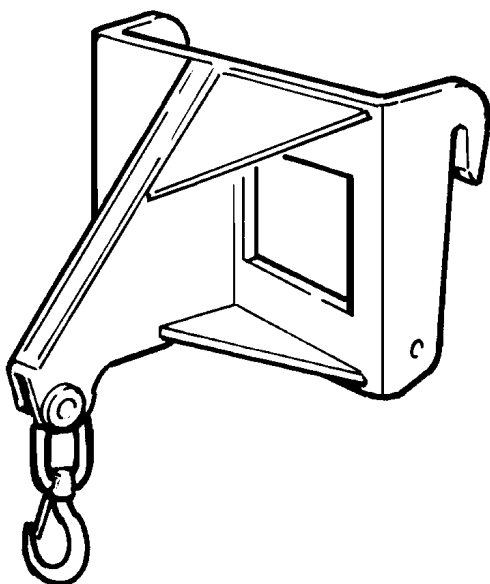
Attachment suitable for moving loose material. Do not use for digging operations.



OPTIONAL ATTACHMENTS

■ F-1.3 FIXED HOOK ON PLATE

Payload	Telelift 2506-Agrilift 625
2500 kg	59.0700.0000



Application

Quick-coupling fitted attachment for lifting loads by means of special slings.

Safety

Strictly obey the general safety precautions given in section **B** "SAFETY".

Do not oscillate the load.

Do not drag hooked loads.

Lift the load before extending the boom.

Operation

Fork the hook and hold it in position by means of the locking cylinder.

All loads must be bridled with special textile slings or chains in compliance with all pertinent regulations.

To handle the load, raise and rotate the telescopic boom of the handler.

Maintenance

Visually check the hook for damage before using it.

Check the safety catch is in good working order.

Technical data

Payload	kg	2500
Width	mm	970
Length	mm	620
Height	mm	600
Weight	kg	105

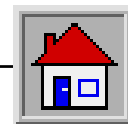
IMPORTANT

The fixed hook has been designed to support a load of 2500 kg. The max payload corresponds to the nominal capacity rating of the handler on which it is installed and is indicated on the load charts supplied with the equipment.

IMPORTANT

Make sure this attachment can be used in the destination country of the machine. In Italy, this attachment must be enrolled at ISPESL and submitted to yearly test.

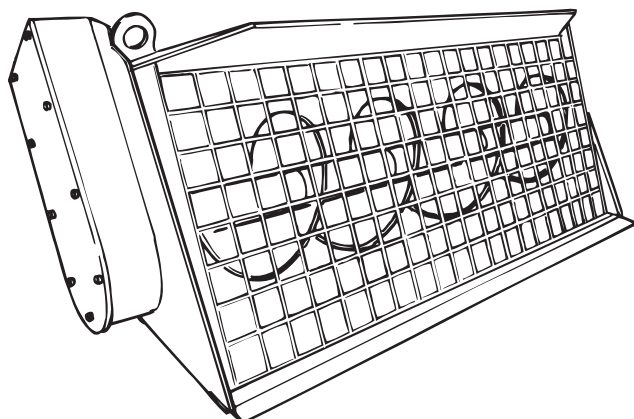
Application must be submitted directly by the user.



OPTIONAL ATTACHMENTS

■ F-1.4 MIXING BUCKET

Code	Telelift 2506-Agrilift 625
Litres 250	59.0400.9000



Technical data

	Litres	250
Width	mm	
Length	mm	...
Height	mm	...
Weight	kg	...
SAE capacity	m ³	...

Application

Quick-coupling fitted attachment for mixing and distributing concrete.

Safety

Strictly obey the general safety precautions given in section **B** "SAFETY".

Operation

To load/unload the material, operate the rotation lever of the attachment holding plate.

To start the mixing auger, operate the attachment locking lever after connecting the feeding lines of the new attachment to the quick couplings (see page F-2).

Maintenance



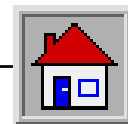
CAUTION

Before any maintenance, rest the bucket on the ground, stop the machine, remove the starter key and lock the cab door to prevent anybody from gaining access to the control panel.

Visually check the bucket for damage before using it. Wash thoroughly with water after use or in case of prolonged inactivity to prevent the mix or residues from hardening.

Check for oil leaks from hoses and connectors.

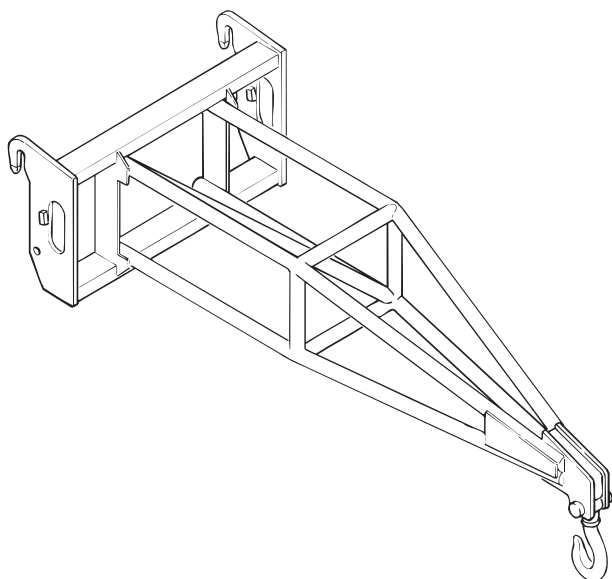
Carefully protect the quick connectors once disconnected to prevent impurities from entering the circuit.



OPTIONAL ATTACHMENTS

■ F-1.5 EXTENSION JIB

Code	Telelift 2506-Agrilift 625
400 kg	59.0800.0000



Application

Quick-coupling fitted attachment for maintenance interventions at high working heights.

Safety

Strictly obey the general safety precautions given in section **B** "SAFETY".

Never lift wrongly slung loads.

Avoid abrupt acceleration or deceleration.

Avoid load oscillations, and especially do not move the load from the vertical pull line.

Do not pull crosswise and do not tow.

Operation

To change the working height, operate the rotation lever of the attachment holding plate.

Maintenance

Visually check the jib for damage before using it.

Check the safety catch is in good working order.

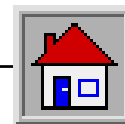
Daily grease the joints using the greasing gun.

Characteristics		
- Payload	kg	400
A Length	mm	2100
B Width	mm	920
H Height	mm	630
- Weight	kg	115

IMPORTANT

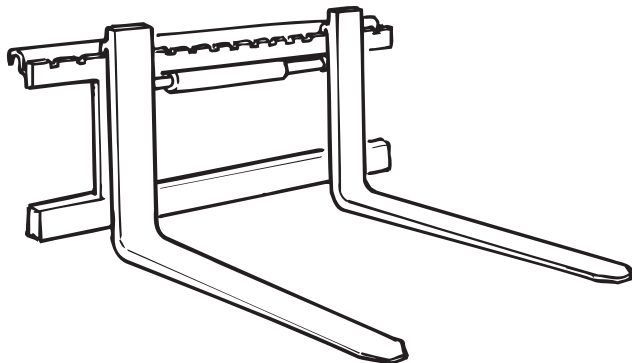
Make sure this attachment can be used in the destination country of the machine. In Italy, this attachment must be enrolled at ISPESL and submitted to yearly test.

Application must be submitted directly by the user.



OPTIONAL ATTACHMENTS

■ F-1.6 FORKS WITH HYDRAULIC SIDE-SHIFT



Application

Quick-coupling fitted attachment for handling palletised loads with possibility of shifting the load to the side by ± 100 mm.

Safety

Strictly obey the general safety precautions given in section **B** "SAFETY".

- Do not load loose materials
- Do not move superposed pallets

Operation

To adjust the tilting, operate the rotation lever of the attachment holding plate.

To side-shift, operate the attachment locking lever after connecting the feeding lines of the new attachment to the quick couplings (see page F-2).

Maintenance

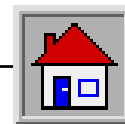
Visually check the attachment for damage before using it. Check for hydraulic oil leaks.

Daily grease the joints using a greasing gun, and smear the sliding guides with graphitized grease.

<i>Machine</i>	<i>Telelift 2506-Agrilift 625</i>
Code	59.0600.0000

Technical data

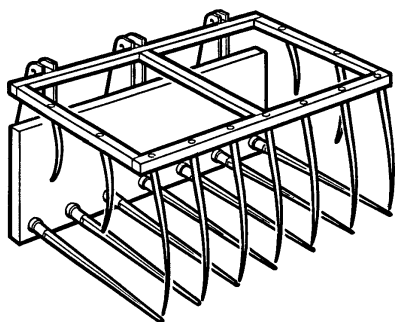
<i>Payload kg</i>		2600
Width	mm	1240
Length	mm	1600
Height (with protection)	mm	1000
Weight	kg	180
Stroke	mm	± 100
Fork attachments		FEM 2



OPTIONAL ATTACHMENTS

■ F-1.7 FORK WITH JAW

Machine	Telelift 2506-Agrilift 625
Fork with jaw	59.1300.1000



Application

Interchangeable quick-coupling attachment for loading and handling manure, shrubs and other loose agricultural products.

Safety

Strictly obey the general safety precautions given in section **B** "SAFETY".

Operation

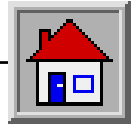
To adjust the fork tilting, operate the rotation lever of the holding plate.

For loading operations, act on the locking lever after connecting the feeding lines of the new attachment to the quick couplings (see page F-2).

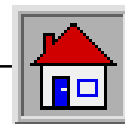
Maintenance

Visually check for damage before using the fork. Check for hydraulic oil leaks. Daily grease the joints using a greasing pump, and the sliding profiles with graphitized grease.

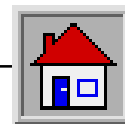
Characteristics		
Width	mm	1980
Length	mm	900
Height	mm	800
Weight	kg	315
Teeth		9+13



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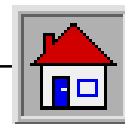
**Section G****TABLES AND
DOCUMENTS ENCLOSED****TABLE OF CONTENTS**

G-1	TORQUE WRENCH SETTING	G-2
G-2.1	Load Chart with forks	G-3
G-2.2	Load Chart with forks	G-4
G-3.1	Wiring diagram - Fuses and relays	G-5
G-3.2.1	Wiring diagram (valid up to serial no. 17083)	G-7
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G-3.3	General wiring diagram (description)	G-27
G-4.1	Hydraulic scheme	G-29
G-5	Routine check schedule-Safety devices	G-30


TABLES AND DOCUMENTS ENCLOSED
G-1 TORQUE WRENCH SETTINGS

D x p	Pre-loading (N)				Torque wrench setting (Nm)			
	4.8	8.8	10.9	12.9	4.8	8.8	10.9	12.9
M 4 x 0,7	1970	3930	5530	6640	1,5	3,1	4,3	5,2
M 5 x 0,8	3180	6360	8950	10700	3	6	8,5	10,1
M 6 x 1	4500	9000	12700	15200	5,2	10,4	14,6	17,5
M 8 x 1,25	8200	16400	23100	27700	12,3	24,6	34,7	41,6
M 8 x 1	8780	17600	24700	29600	13	26	36,6	43,9
M 10 x 1,5	13000	26000	36500	43900	25,1	50,1	70,5	84,6
M 10 x 1,25	13700	27400	38500	46300	26,2	52,4	73,6	88,4
M 12 x 1,75	18900	37800	53000	63700	42,4	84,8	119	143
M 12 x 1,25	20600	41300	58000	69600	45,3	90,6	127	153
M 14 x 2	25800	51500	72500	86900	67,4	135	190	228
M 14 x 1,5	28000	56000	78800	94500	71,7	143	202	242
M 16 x 2	35200	70300	98900	119000	102	205	288	346
M 16 x 1.5	37400	74800	105000	126000	107	214	302	362
M 18 x 2,5	43000	86000	121000	145000	142	283	398	478
M 18 x 1,5	48400	96800	136000	163000	154	308	434	520
M 20 x 2,5	54900	110000	154000	185000	200	400	562	674
M 20 x 1,5	60900	122000	171000	206000	216	431	607	728
M 22 x 2,5	67900	136000	191000	229000	266	532	748	897
M 22 x 1,5	74600	149000	210000	252000	286	571	803	964
M 24 x 3	79100	158000	222000	267000	345	691	971	1170
M 24 x 2	86000	172000	242000	290000	365	731	1030	1230
M 27 x 3	103000	206000	289000	347000	505	1010	1420	1700
M 27 x 2	111000	222000	312000	375000	534	1070	1500	1800
M 30 x 3,5	126000	251000	353000	424000	686	1370	1930	2310
M 30 x 2	139000	278000	391000	469000	738	1480	2080	2490

IMPORTANT
Sensor maximum driving torque: 15 Nm.



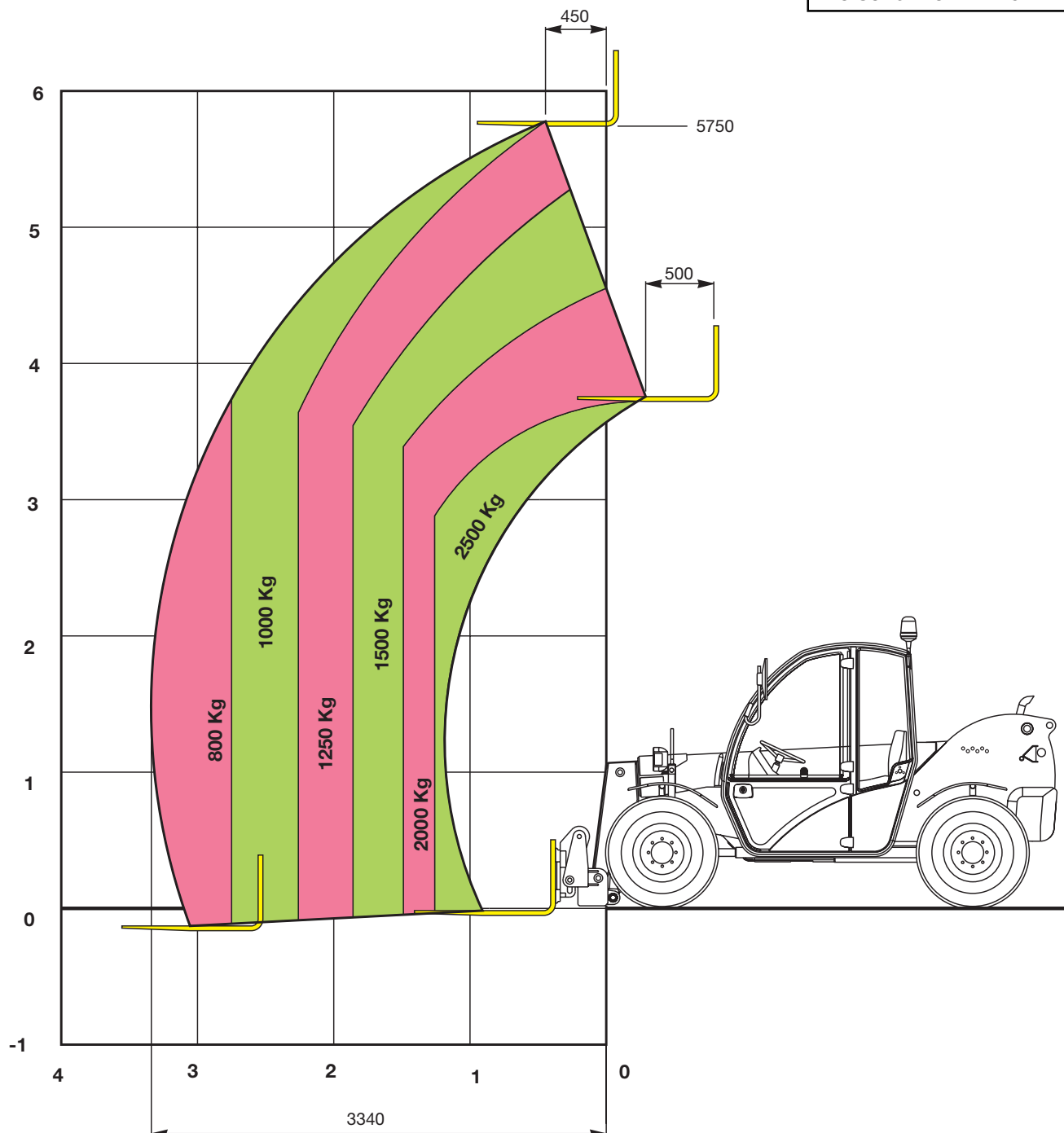
■ G-2.1 LOAD CHART WITH FORKS

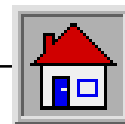
AGRILIFT 625

From serial no. xxxxx
To serial no. 15335

TELELIFT 2506

From serial no. xxxxx
To serial no. 15272





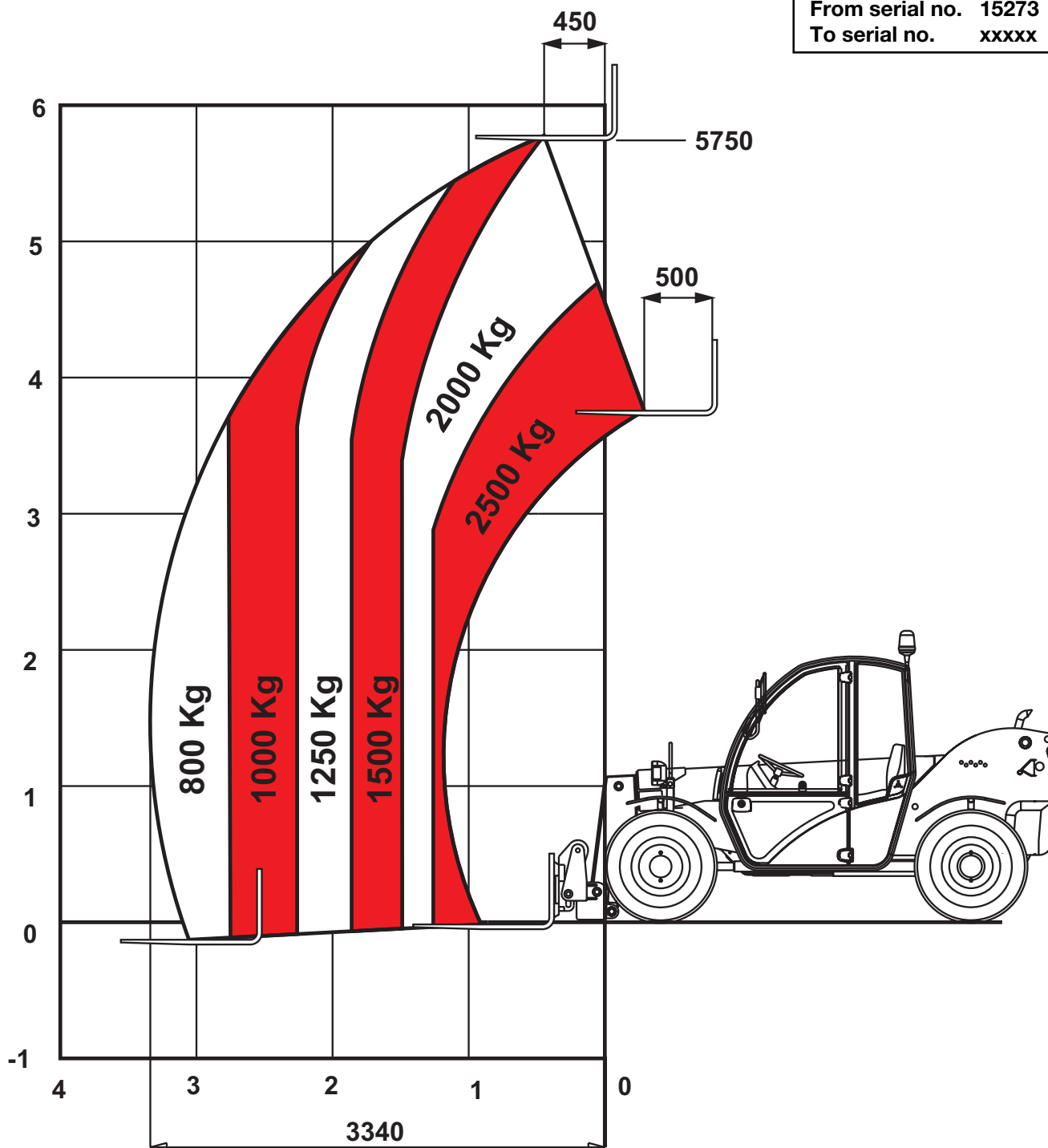
■ G-2.2 LOAD CHART WITH FORKS

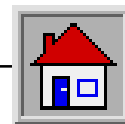
AGRILIFT 625

From serial no. 15336
To serial no. xxxxx

TELELIFT 2506

From serial no. 15273
To serial no. xxxxx

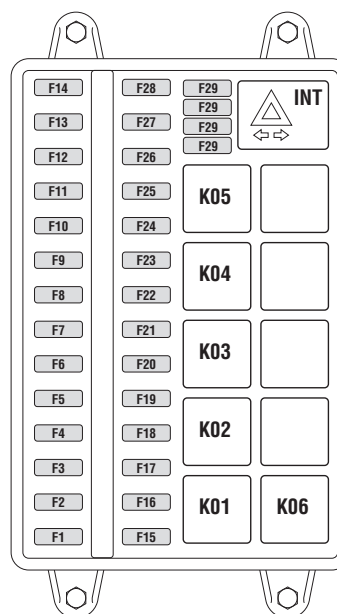




TABLES AND DOCUMENTS ENCLOSED

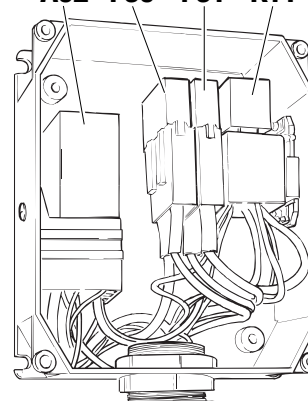
■ G-3.1 WIRING DIAGRAM - FUSES AND RELAYS

Ref.	Circuit	Amp.
F1	Power supply: interior lamp, emergency switch, turn signals +30	15
F2	Power supply: K04 relay	7,5
F3	Optional	15
F4	Front right/rear left position lights, license plate lights, position lights indicator, engine oil temperature indicator	5
F5	Front left/rear right position lights, fuel gauge-hourmeter-warning lamps lighting, engine oil cooling temperature indicator light, fan switch, lights selection switch	5
F6	Right low beam	7,5
F7	Left low beam	7,5
F8	Right high beam	10
F9	Left high beam, High beam warning lamp	10
F10	Horn	15
F11	Windscreen washer kit	10
F12	Optional	-
F13	Optional	-
F14	Optional	-
F15	Preheating control unit power supply	5
F16	Power supply: hydraulic stop, fuel gauge-hourmeter-warning lamps indicator, engine oil cooling temperature indicator, engine oil temperature indicator, K04 relay pickup, air filter warning light, preheating warning light, road safety switch	5
F17	Power supply: hazard warning light and turn signals switch +15	15
F18	Power supply: light switch - windscreen washer switch, windscreen washer motor	15
F19	Heating system fan power supply	15
F20	Road safety switch power supply	7,5
F21	Power supply: beacon	10
F22	Engine stop mushroom-head button power supply	10
F23	Relay K02/Relay K05 power supply	7,5
F24	Relay K06 power supply	5
F25	Parking brake switch power supply	10
F26	Optional	-
F27	Optional	-
F28	Optional	-
F29	Spare fuses	-



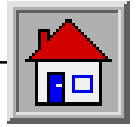
Ref.	Circuit	Amp.
F30	Preheating control unit maxifuse	50
F31	System protection fuse	50
K11	Start relay	
A02	Preheating control unit	

A02 F30 F31 K11

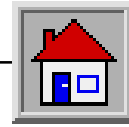


RELAYS

Ref.	Circuit
K01	Starting enabling command
K02	Forward speed enabling command
K03	Inhibition with brake pedal stepped down
K04	Overload warning system control unit enabling command
K05	Reverse speed enabling command
K06	Overload warning system solenoid valve enabling command



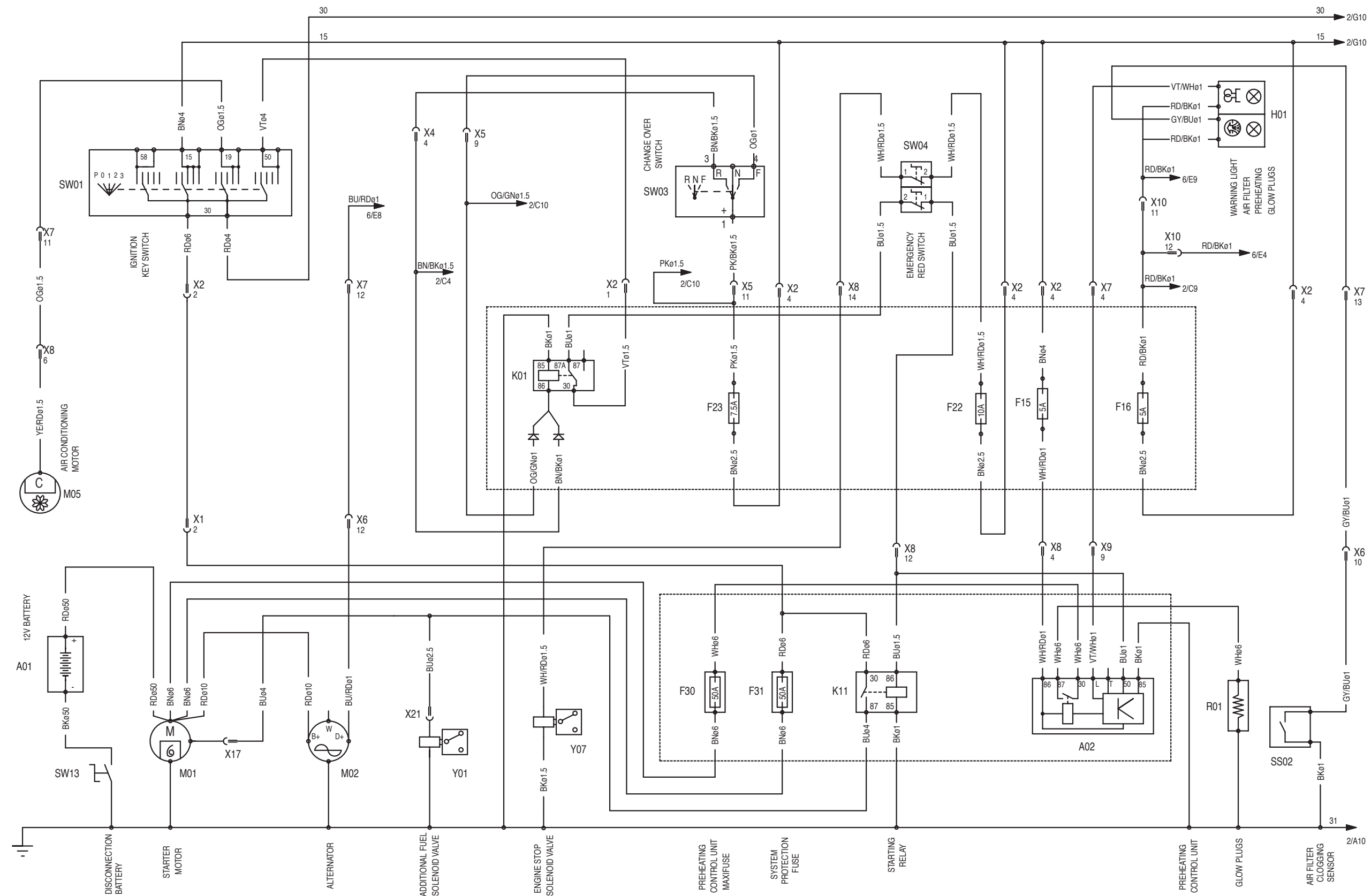
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■ **G-3.2.1 WIRING DIAGRAM** (valid up to serial no. 17083)

Sheet 1/9

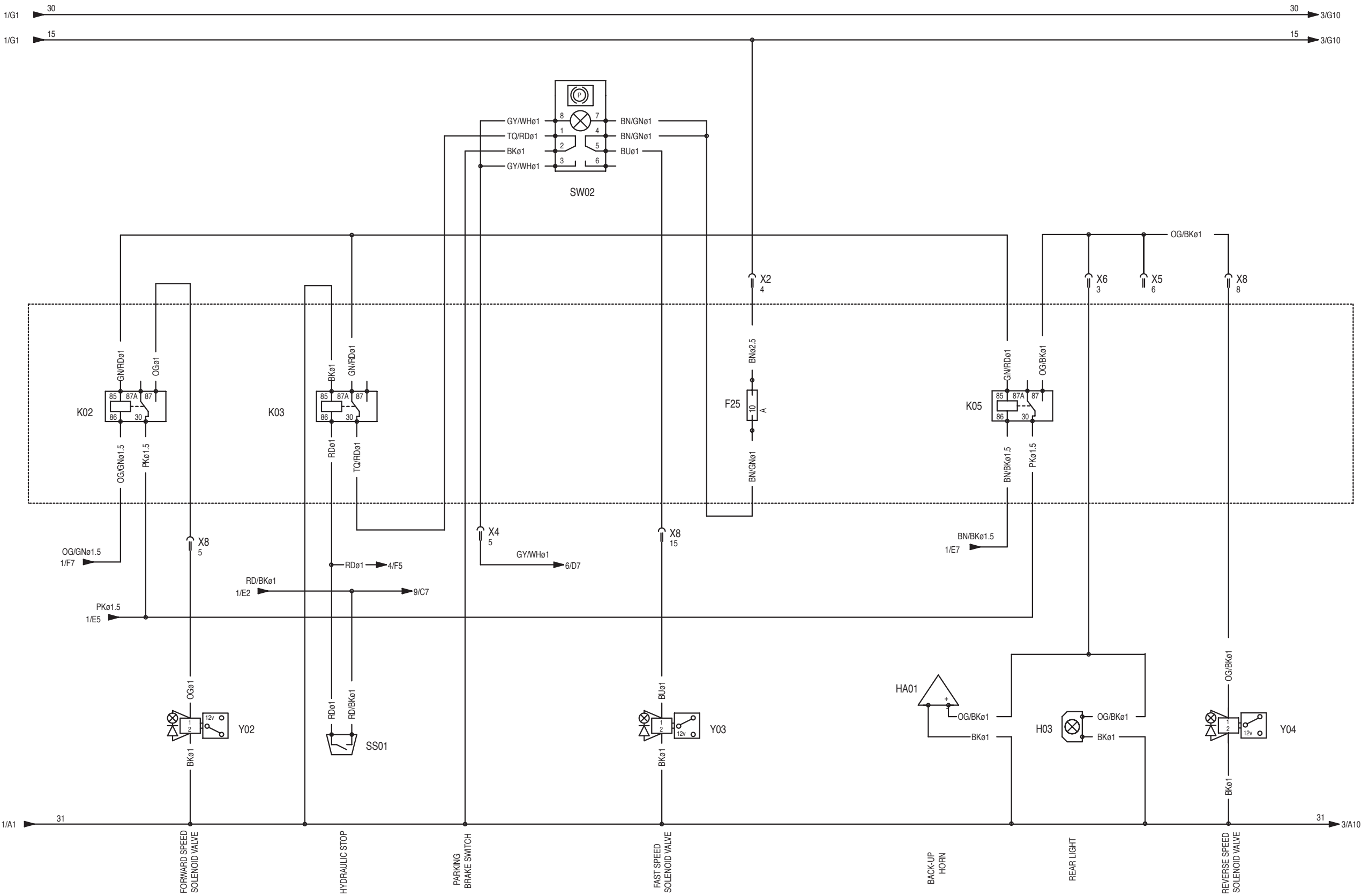
From serial no. xxxxx
To serial no. 17083

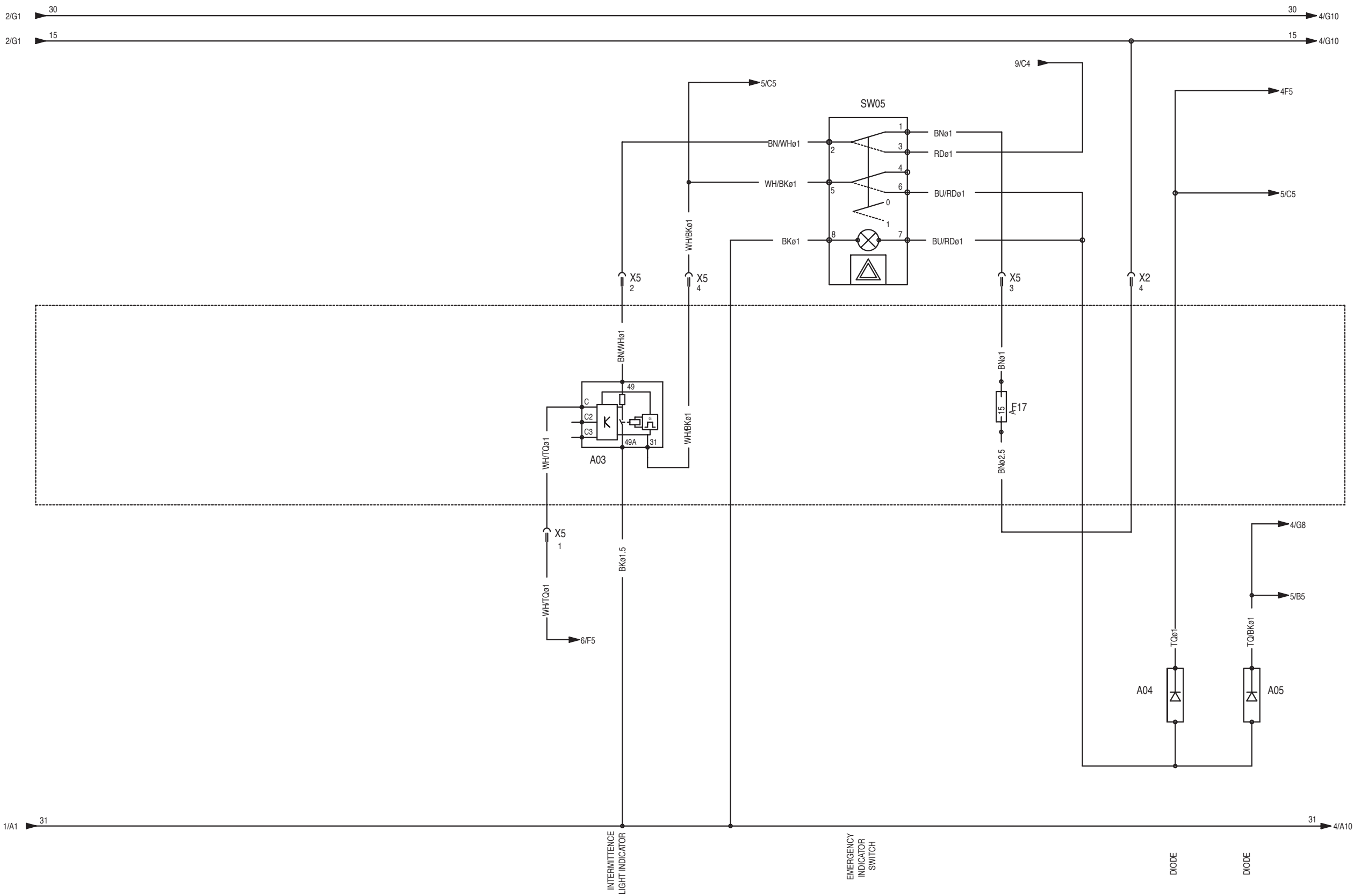
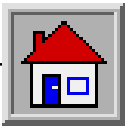


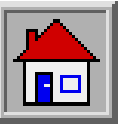


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From serial no. xxxxx
To serial no. 17083

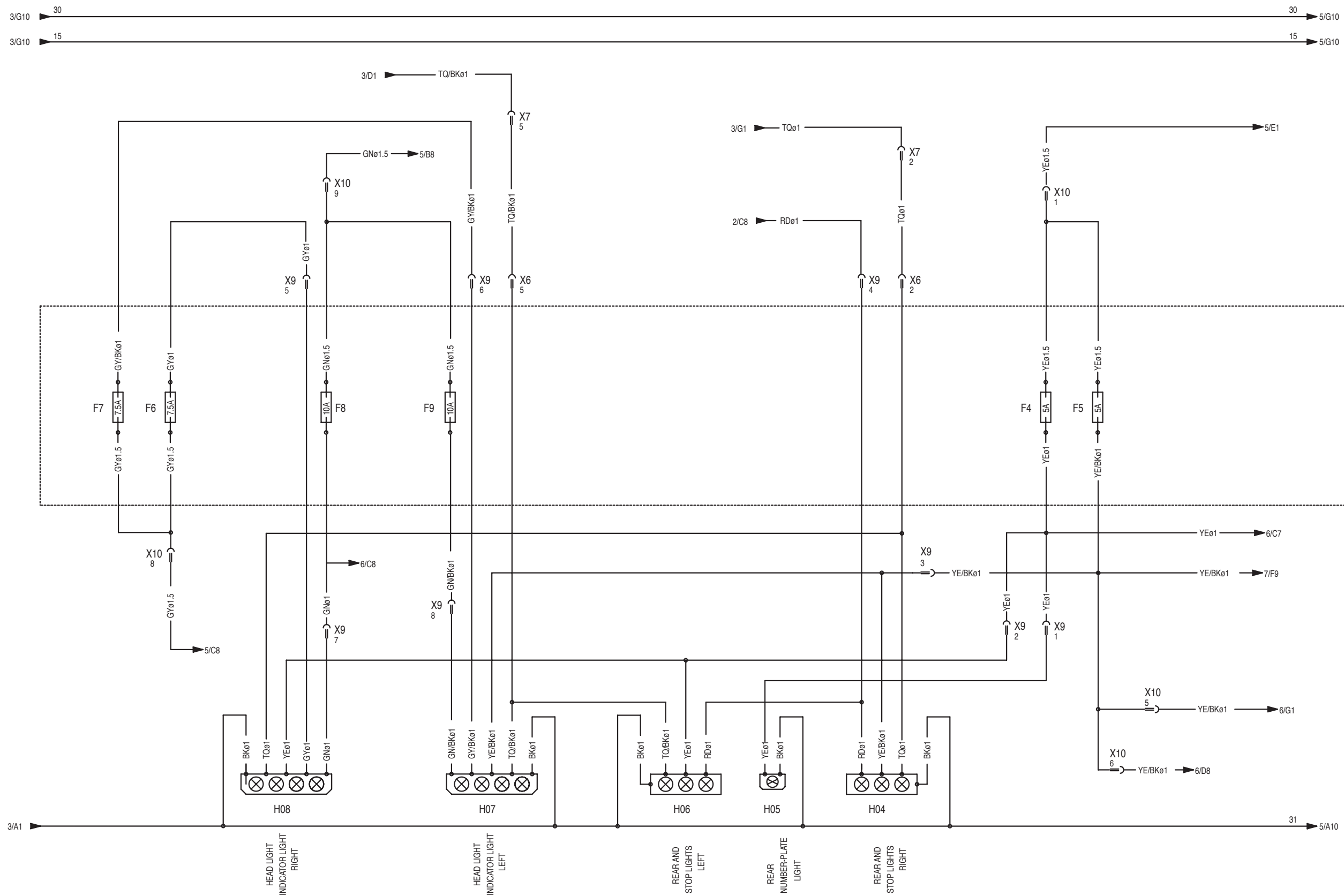


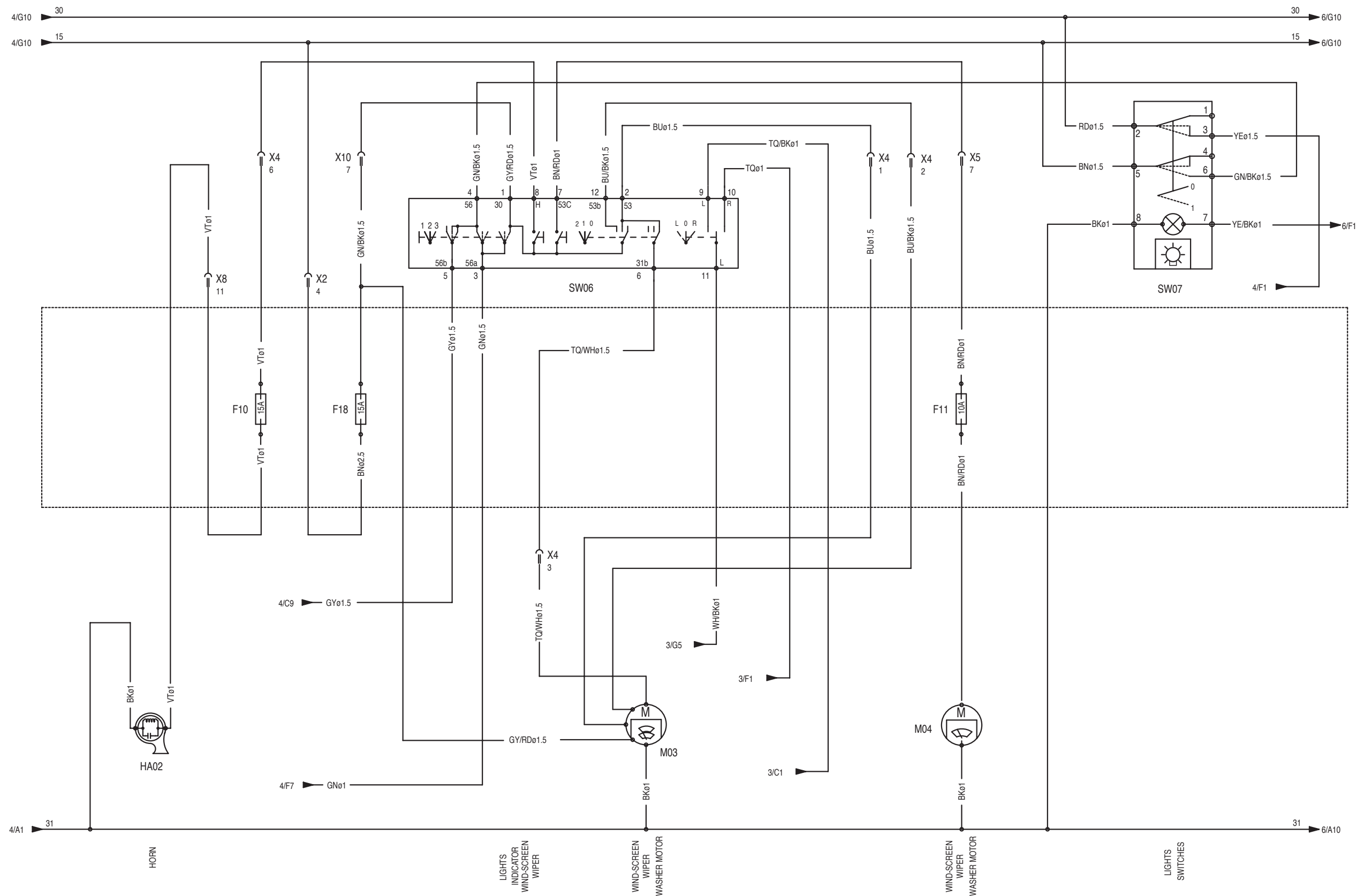
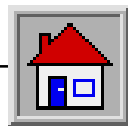


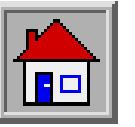


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From serial no. xxxxx
To serial no. 17083

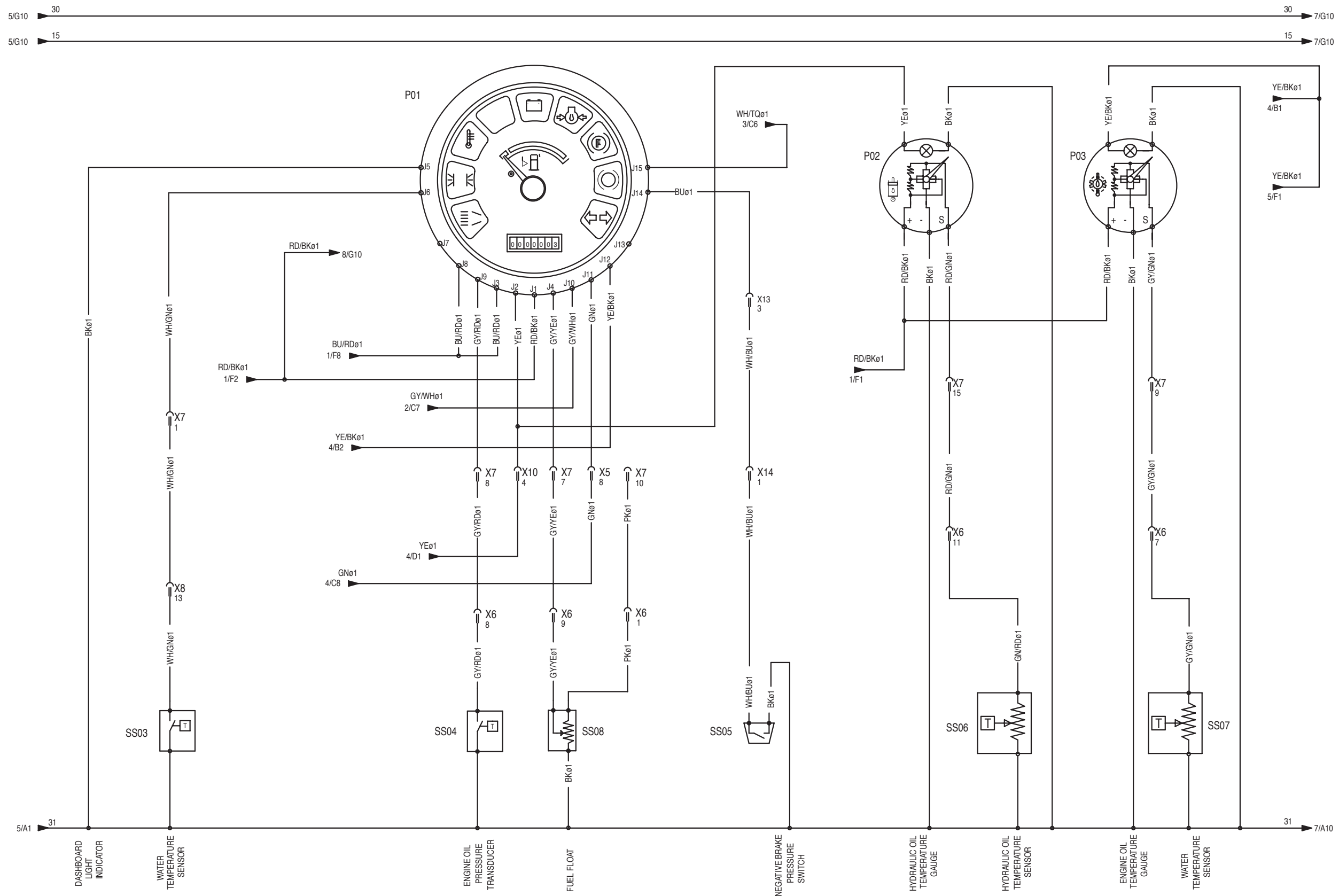


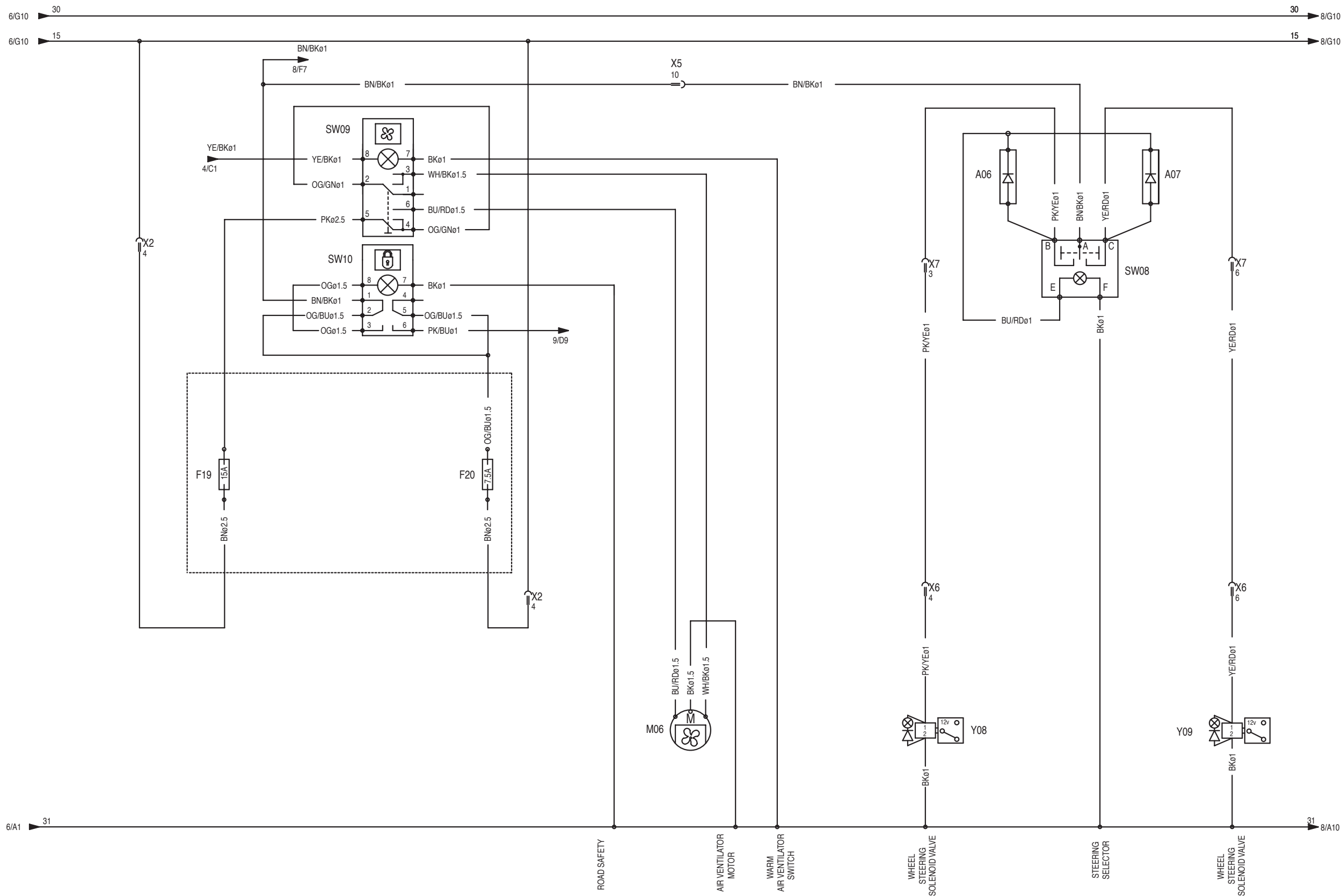
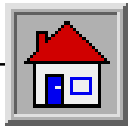


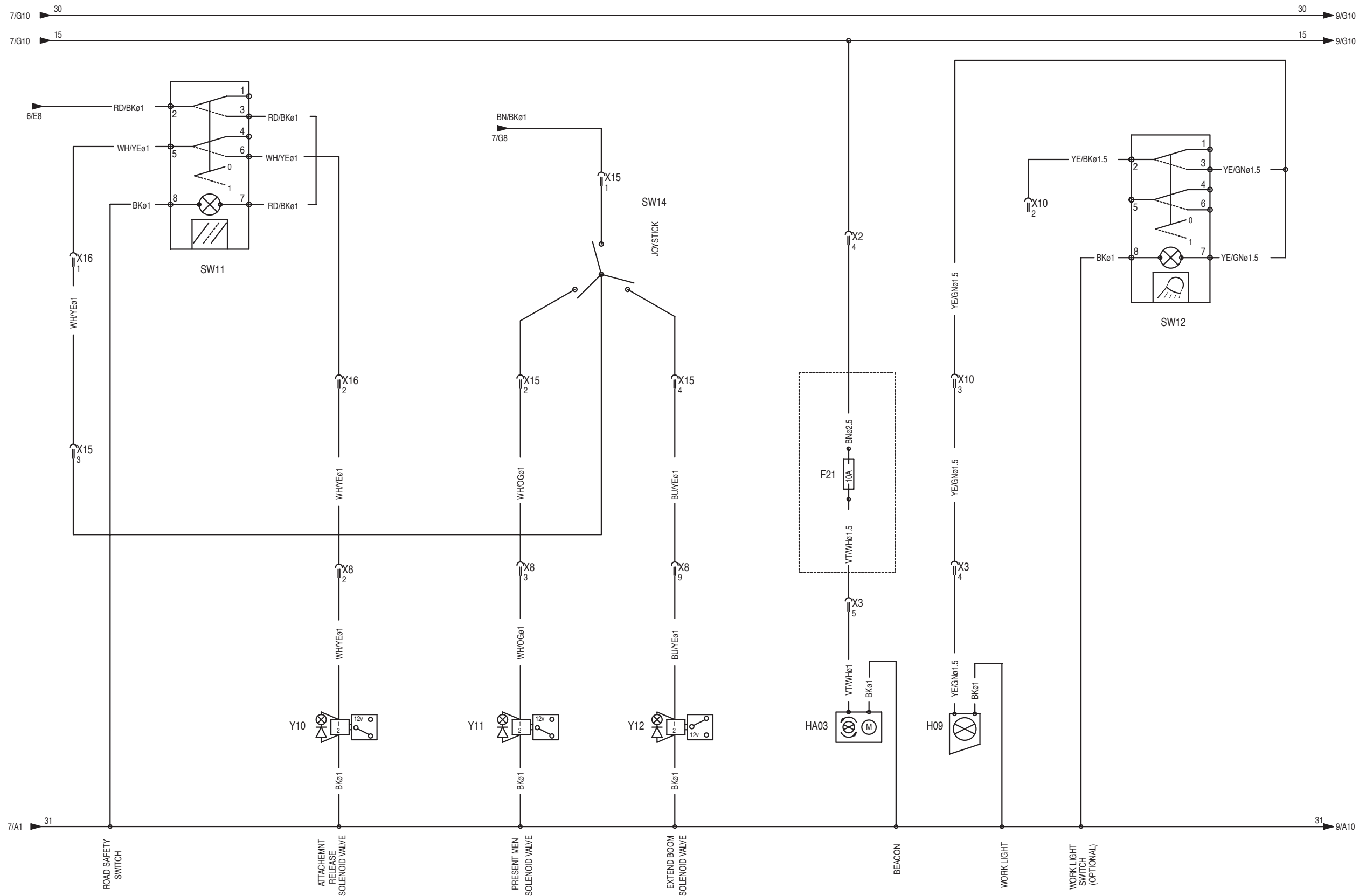
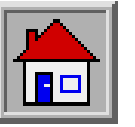


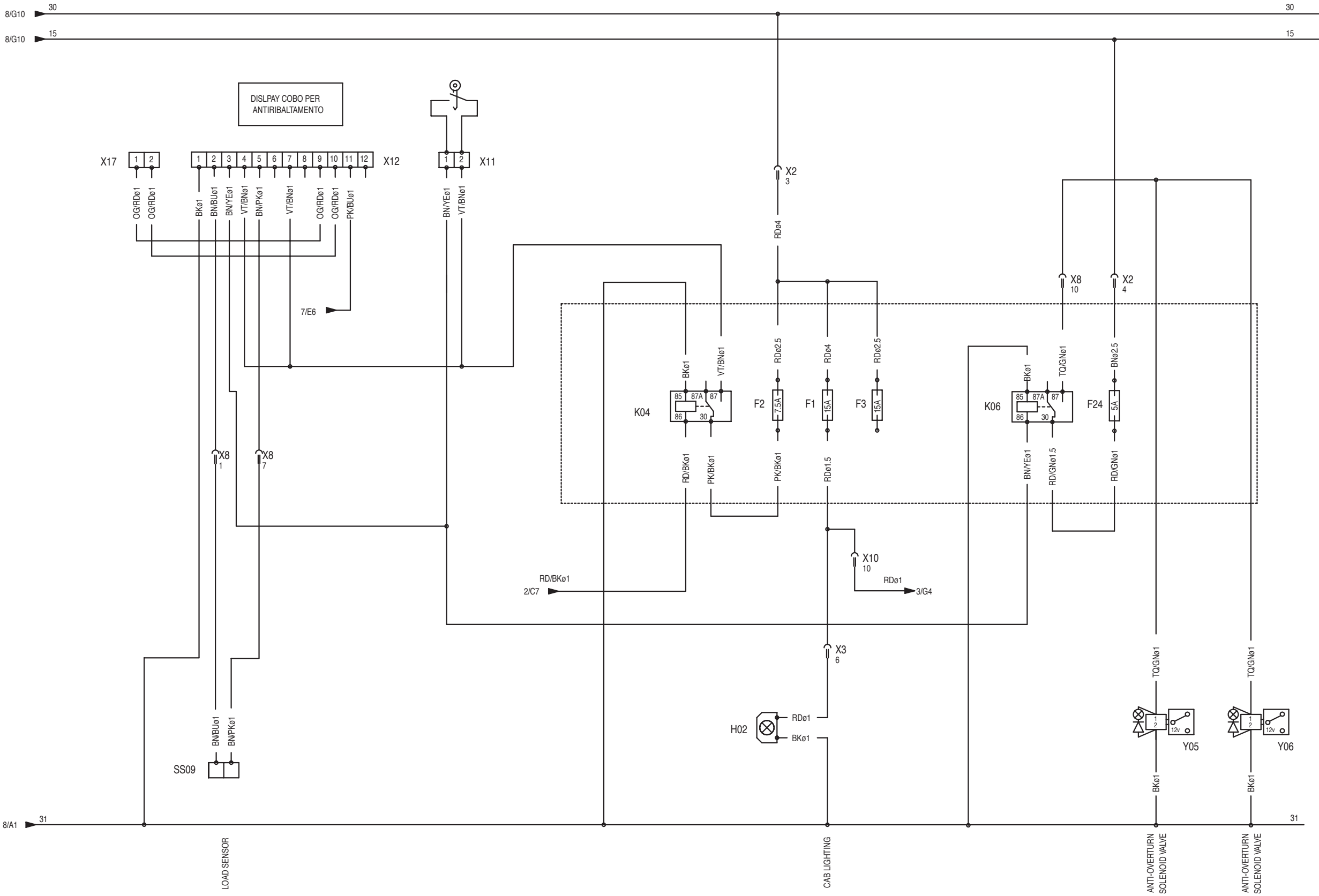
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From serial no. xxxxx
To serial no. 17083





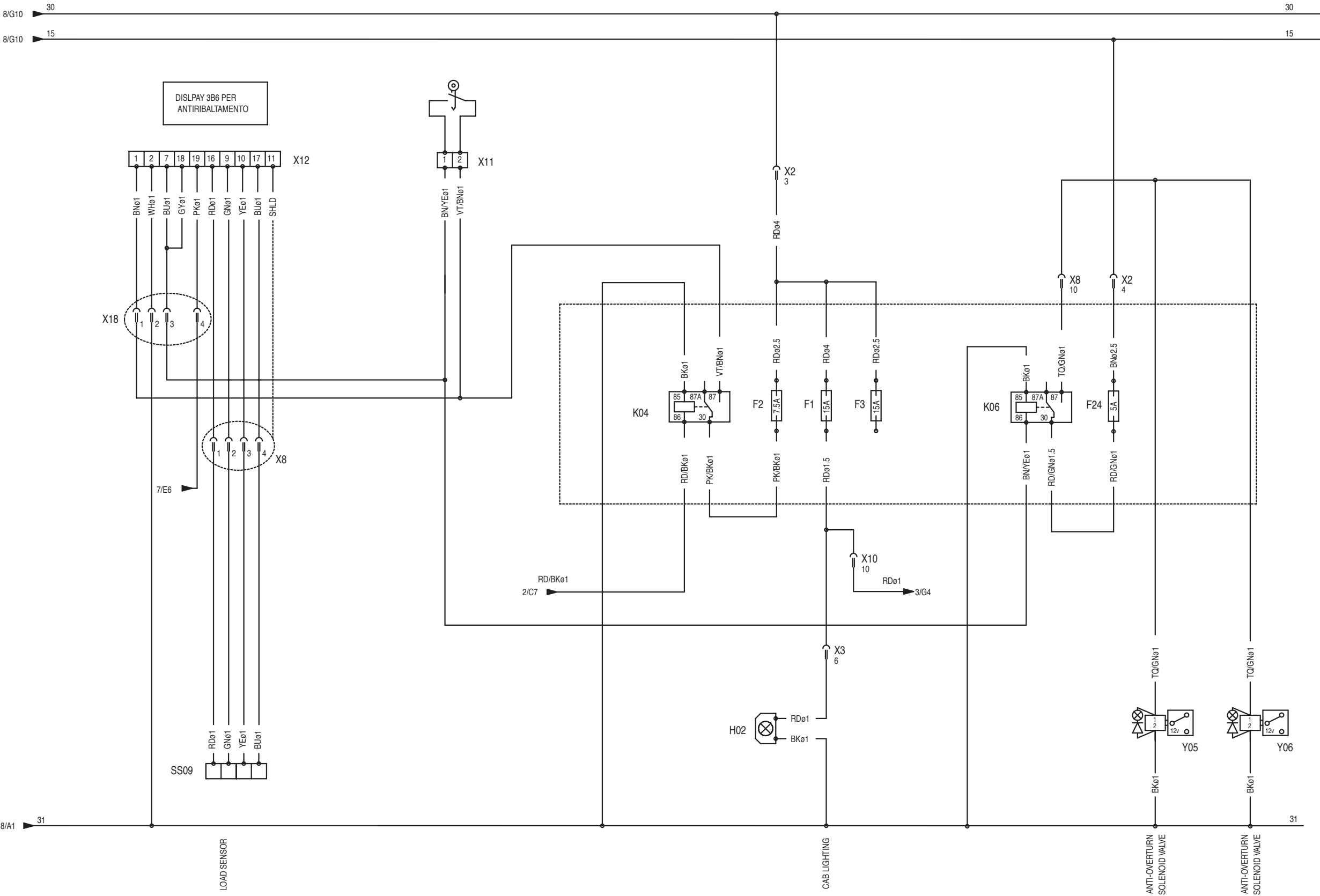


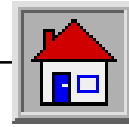




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From serial no. 10740
To serial no. 17083

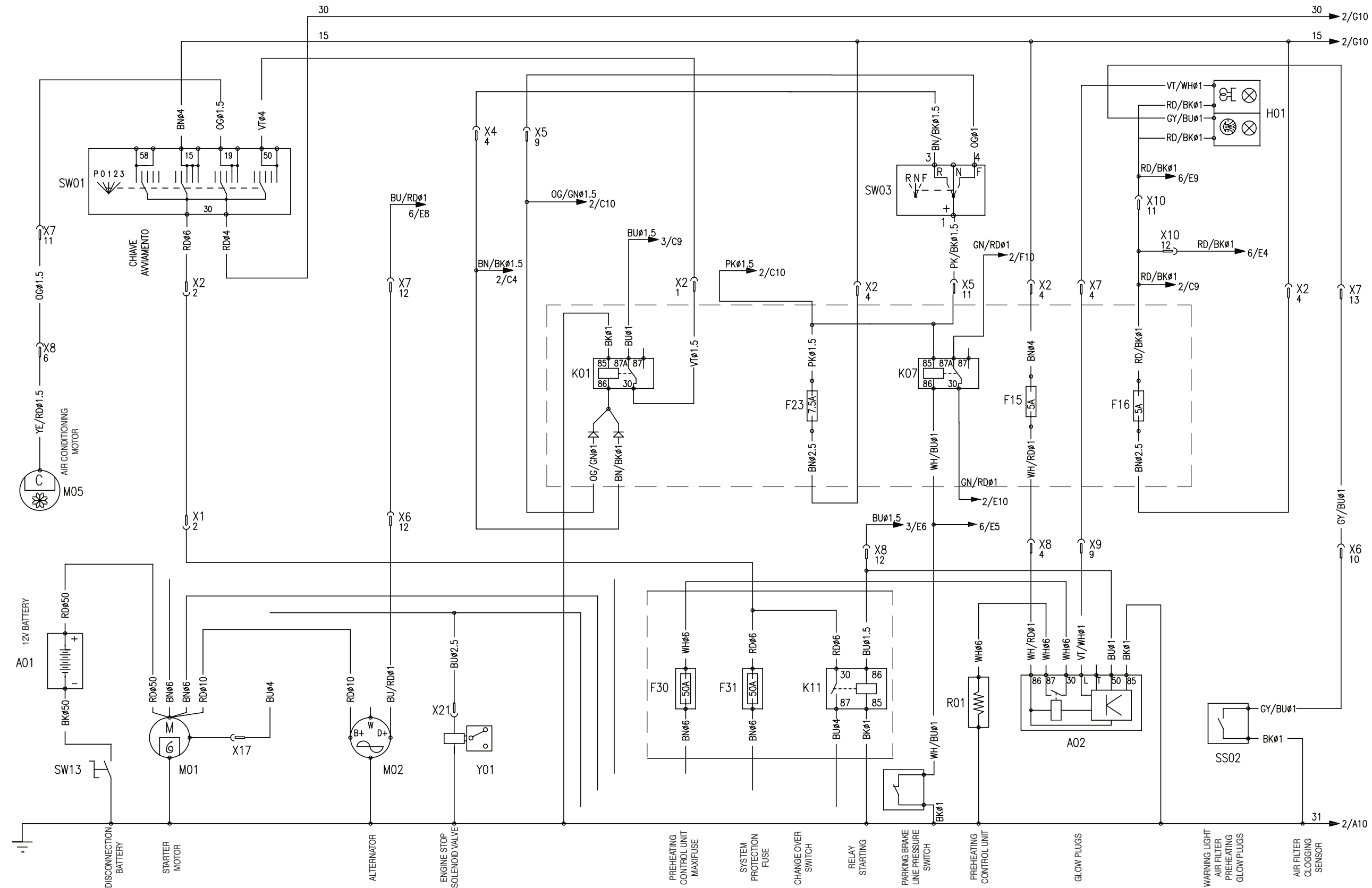




■ G-3.2.2 WIRING DIAGRAM (valid from serial no. 17084)

Sheet 1/9

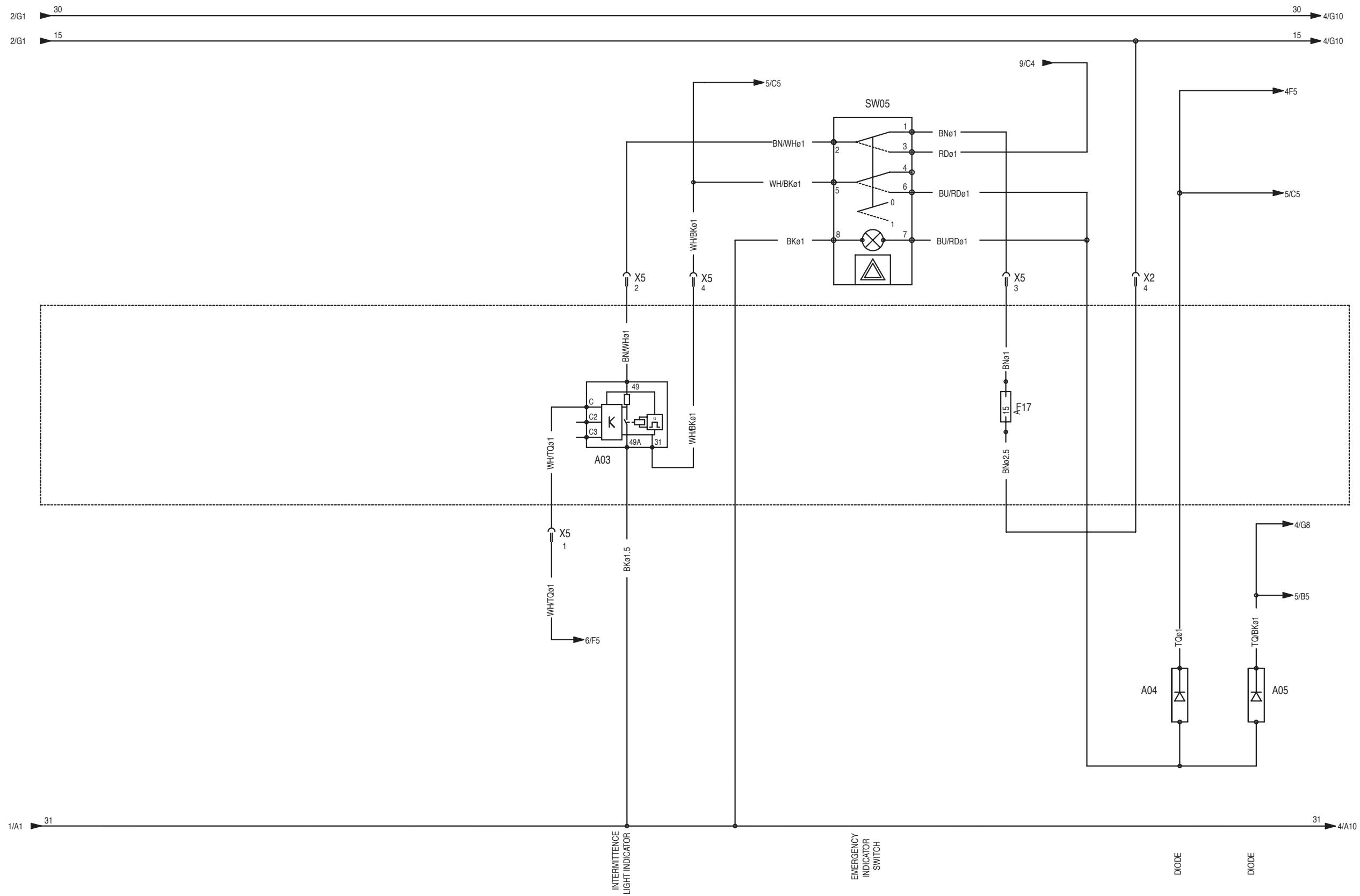
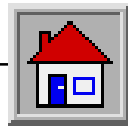
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To serial no. xxxxx

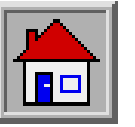




From serial no.	17084
To serial no.	xxxxx

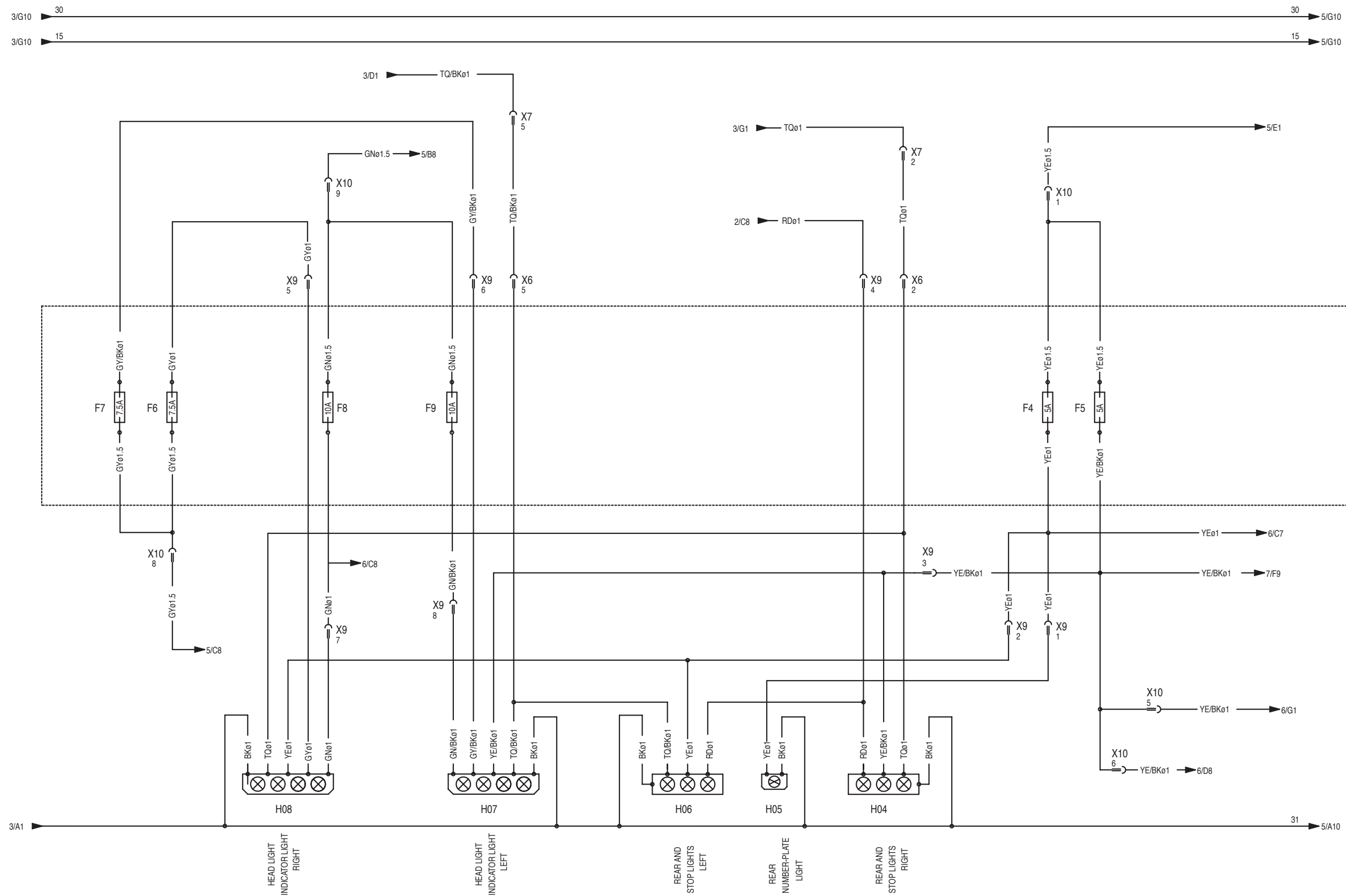


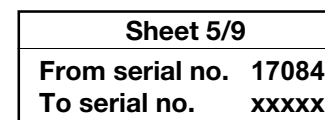




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From serial no. 17084
To serial no. xxxxxx

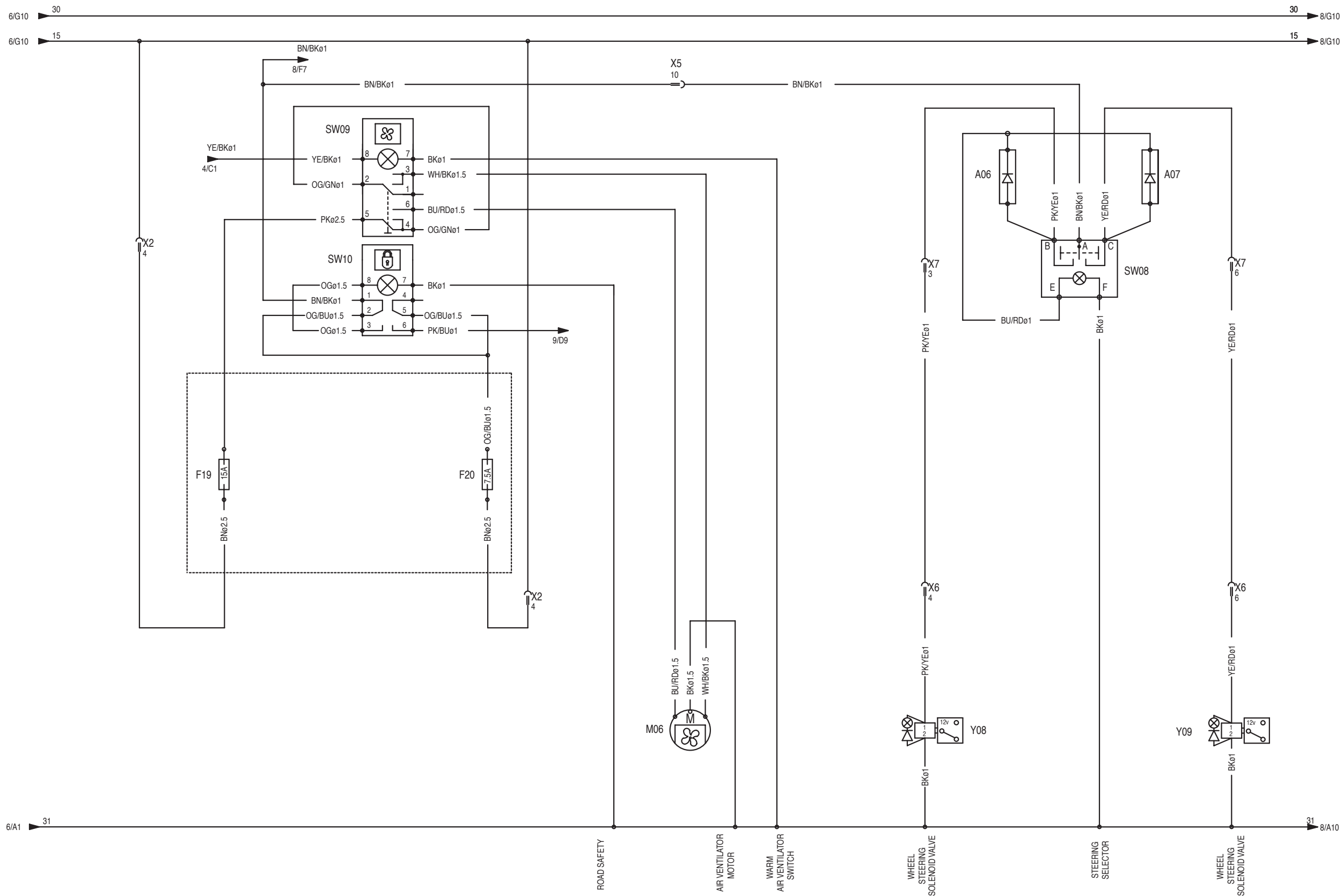
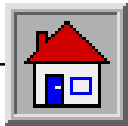


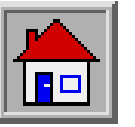




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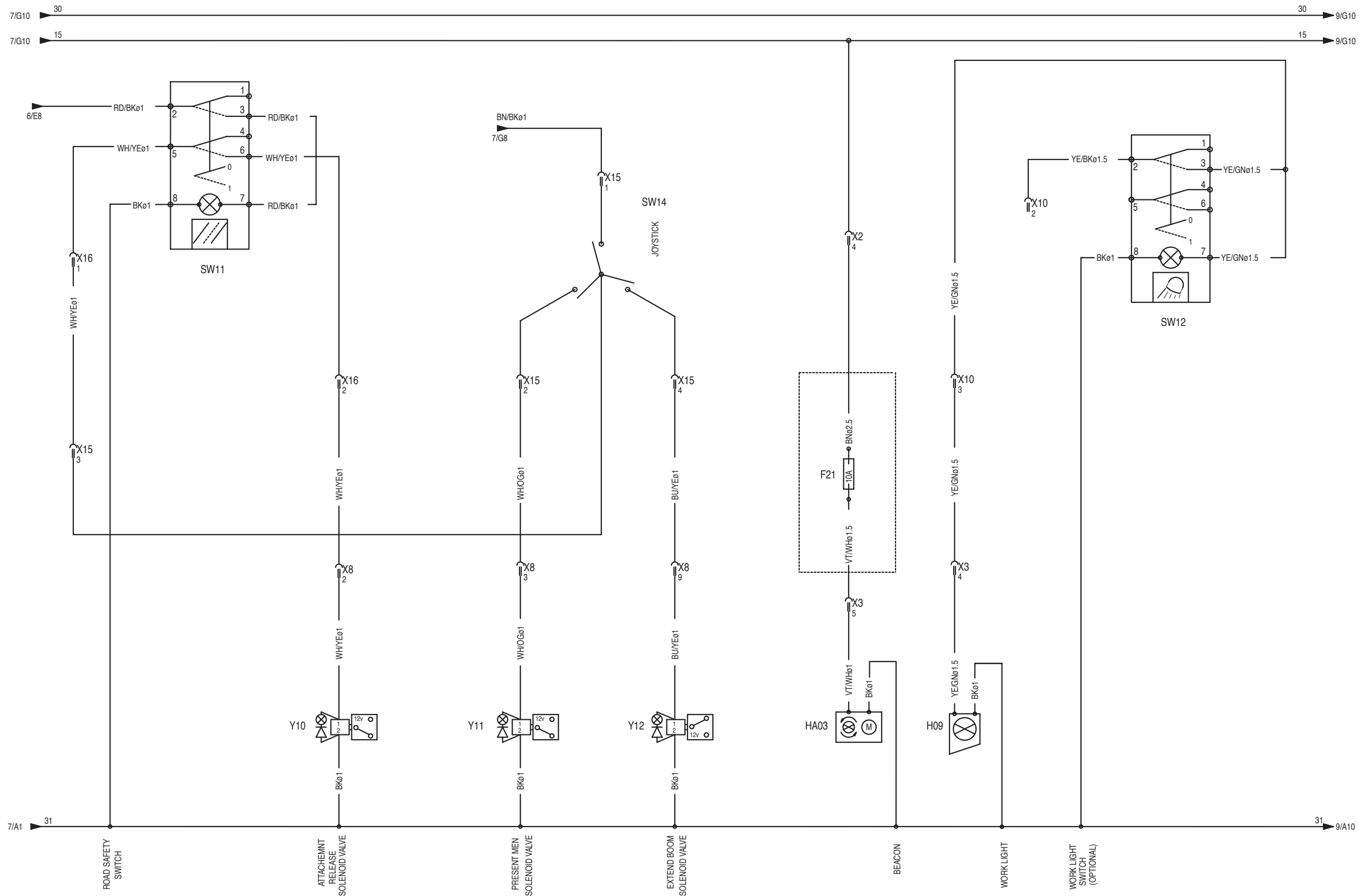


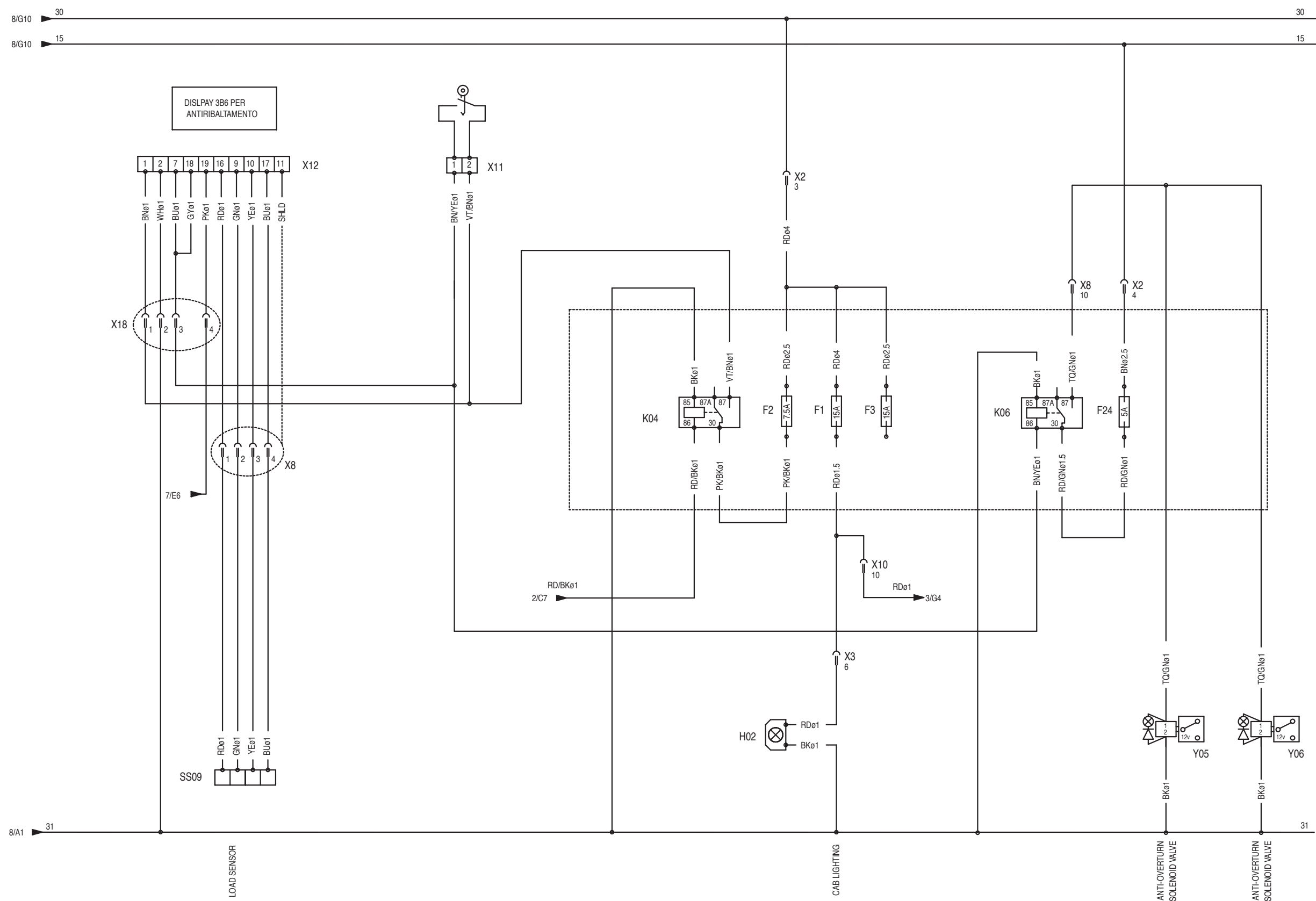
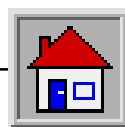




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From serial no. 17084
To serial no. xxxxx

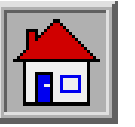




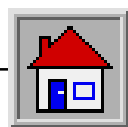


Handler with telescopic boom Agrilift 625 - Telelift 2506

TABLES AND DOCUMENTS ENCLOSED



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■ G-3.3 GENERAL WIRING DIAGRAM (description)

Ref	Description	Sheet
F1	POWER SUPPLY: INTERIOR LAMP, EMERGENCY SWITCH, TURN SIGNALS +30	9
F2	POWER SUPPLY: K04 RELAY	9
F3	OPTIONAL	9
F4	FRONT RIGHT/REAR LEFT POSITION LIGHTS, LICENSE PLATE LIGHTS, POSITION LIGHTS INDICATOR, ENGINE OIL TEMPERATURE INDICATOR	4
F5	FRONT LEFT/REAR RIGHT POSITION LIGHTS, FUEL GAUGE-HOURMETER-WARNING LAMP ILLUMINATION, ENGINE OIL COOLING TEMPERATURE INDICATOR LIGHT, FAN SWITCH, LIGHTS SELECTION SWITCH	4
F6	RIGHT LOW BEAM	4
F7	LEFT LOW BEAM	4
F8	RIGHT HIGH BEAM	4
F9	LEFT HIGH BEAM, HIGH BEAM WARNING LAMP	4
F10	HORN	5
F11	WINDSCREEN WASHER KIT	5
F12	OPTIONAL	
F13	OPTIONAL	
F14	OPTIONAL	
F15	PREHEATING CONTROL UNIT POWER SUPPLY	1
F16	POWER SUPPLY: HYDRAULIC STOP, FUEL GAUGE-HOURMETER-WARNING LAMPS INDICATOR, ENGINE OIL COOLING TEMPERATURE INDICATOR, ENGINE OIL TEMPERATURE INDICATOR, K04 RELAY PICKUP, AIR FILTER WARNING LIGHT, PREHEATING WARNING LIGHT, ROAD SAFETY SWITCH	1
F17	POWER SUPPLY: HAZARD WARNING LIGHT AND TURN SIGNALS SWITCH +15	3
F18	POWER SUPPLY: LIGHT SWITCH - WINDSCREEN WASHER SWITCH, WINDSCREEN WASHER MOTOR	5
F19	HEATING SYSTEM FAN POWER SUPPLY	7
F20	ROAD SAFETY SWITCH POWER SUPPLY	7

Ref	Description	Sheet
F21	POWER SUPPLY: BEACON	8
F22	ENGINE STOP MUSHROOM-HEAD BUTTON POWER SUPPLY	1
F23	POWER SUPPLY: RELAY K02, K05	1
F24	RELAY K06 POWER SUPPLY	2
F25	PARKING BRAKE SWITCH POWER SUPPLY	2
F26	OPTIONAL	
F27	OPTIONAL	
F28	OPTIONAL	
F30	PREHEATING CONTROL UNIT MAXIFUSE	1
F31	SYSTEM PROTECTION FUSE	1
H01	WARNING LIGHTS: AIR FILTER SOILED, PREHEATING GLOW PLUGS WARNING LIGHT	1
H02	CAB LIGHTING	9
H03	BACK-UP LAMPS	2
H04	REAR RIGHT-HAND LIGHT	4
H05	LICENSE PLATE LAMP	4
H06	REAR LEFT-HAND LIGHT	4
H07	FRONT LIGHT LAMP - LEFT TURN SIGNAL	4
H08	FRONT LIGHT LAMP - RIGHT TURN SIGNAL	4
H09	WORK LIGHT	8
HA01	BACK-UP HORN	2
HA02	HORN	5
HA03	BEACON	8
K01	STARTING ENABLING COMMAND	1
K02	FORWARD SPEED ENABLING COMMAND	2
K03	INHIBITION WITH BRAKE PEDAL STEPPED DOWN	2
K04	OVERLOAD WARNING SYSTEM CONTROL UNIT ENABLING COMMAND	9
K05	REVERSE SPEED ENABLING COMMAND	2
K06	OVERLOAD WARNING SYSTEM SOLENOID VALVE ENABLING COMMAND	9
K11	START RELAY	1

Ref	Description	Sheet
M01	STARTER MOTOR	1
M02	ALTERNATOR	1
M03	WINDSCREEN WIPER/WASHER MOTOR	5
M04	WINDSCREEN WIPER/WASHER MOTOR	5
M05	COMPRESSED AIR COMPRESSOR	1
M06	FAN MOTOR	7
P01	WARNING LIGHTS-FUEL GAUGE INSTRUMENT	6
P02	ENGINE OIL TEMPERATURE TRANSDUCER	6
P03	ENGINE OIL COOLING TEMPERATURE INDICATOR	6
R01	GLOW PLUGS	1
SW01	IGNITION KEY	1
SW02	PARKING BRAKE SWITCH	2
SW03	CHANGEVER-OVER SWITCH	1
SW04	MUSHROOM-HEAD BUTTON	1
SW05	HAZARD WARNING LIGHT / TURN SIGNALS SWITCH	3
SW06	LIGHT SWITCH-TURN SIGNALS-WINDSCREEN WIPER/WASHER	5
SW07	LIGHTS SELECTION SWITCH	5
SW08	STEERING SELECTOR	7
SW09	HEATING FAN SWITCH	7
SW10	ROAD SAFETY SWITCH	7
SW11	ROAD SAFETY SWITCH	8
SW12	OPTIONAL WORK LIGHT SWITCH	8
SW13	BATTERY CUTOFF	1
SW14	JOYSTICK	8
SS01	HYDRAULIC STOP	2
SS02	AIR FILTER CLOGGING SENSOR	1
SS03	WATER TEMPERATURE SENSOR	6
SS04	ENGINE OIL PRESSURE TRANSDUCER	6
SS05	NEGATIVE BRAKE PRESSURE SWITCH	6
SS06	HYDRAULIC OIL TEMPERATURE TRANSDUCER	6
SS07	WATER TEMPERATURE SENSOR	6

Ref	Description	Sheet
SS08	FUEL FLOAT	6
SS09	LOADING CELL	9
Y01	SOLENOID VALVE - STARTER	1
Y02	SOLENOID VALVE - FWD SPEED	2
Y03	SOLENOID VALVE - PARKING BRAKE	2
Y04	SOLENOID VALVE - REVERSE SPEED	2
Y05	SOLENOID VALVE - OVERLOAD WARNING SYSTEM	9
Y06	SOLENOID VALVE - OVERLOAD WARNING SYSTEM	9
Y07	ENGINE STOP SOLENOID	1
Y08	WHEEL STEERING SOLENOID VALVE	7
Y09	WHEEL STEERING SOLENOID VALVE	7
Y10	SOLENOID VALVE - ATTACHMENT COUPLING-RELEASE	8
Y11	SOLENOID VALVE - DEADMAN	8
Y12	SOLENOID VALVE - BOOM EXTENSION	8
A01	12V BATTERY	1
A02	PREHEATING CONTROL UNIT	1
A03	TURN SIGNALS FLASHING	3
A04	DIODE	3
A05	DIODE	3
A06	DIODE	7
A07	DIODE	7
X01	4-WAY CONNECTOR - ENGINE FUSES LINE	
X02	4-WAY CONNECTOR - STEERING COLUMN	
X03	6-WAY CONNECTOR - CAB	
X04	6-WAY CONNECTOR - STEERING COLUMN	
X05	12-WAY CONNECTOR - STEERING COLUMN	
X06	12-WAY CONNECTOR - ENGINE	
X07	15-WAY CONNECTOR - STEERING COLUMN	
X08	15-WAY CONNECTOR - ENGINE	
X09	9-WAY CONNECTOR - ENGINE	
X10	12-WAY CONNECTOR - STEERING COLUMN	
X11	2-WAY CONNECTOR - OVERLOAD WARNING SYSTEM CONTROL UNIT	9
X12	CONNECTOR - OVERLOAD WARNING SYSTEM CONTROL UNIT	9



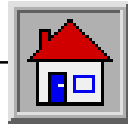
Ref	Description	Sheet
X13	3-WAY CONNECTOR - STEERING COLUMN	
X14	2-WAY CONNECTOR - STEERING COLUMN	
X15	4-WAY CONNECTOR - JOYSTICK	
X16	2-WAY CONNECTOR - STEERING COLUMN	
X17	2-WAY CONNECTOR - OVERLOAD WARNING SYSTEM CONTROL UNIT CALIBRATION	9
X18	4-WAY CONNECTOR - OVERLOAD WARNING SYSTEM CONTROL UNIT	9

COLOUR TABLE

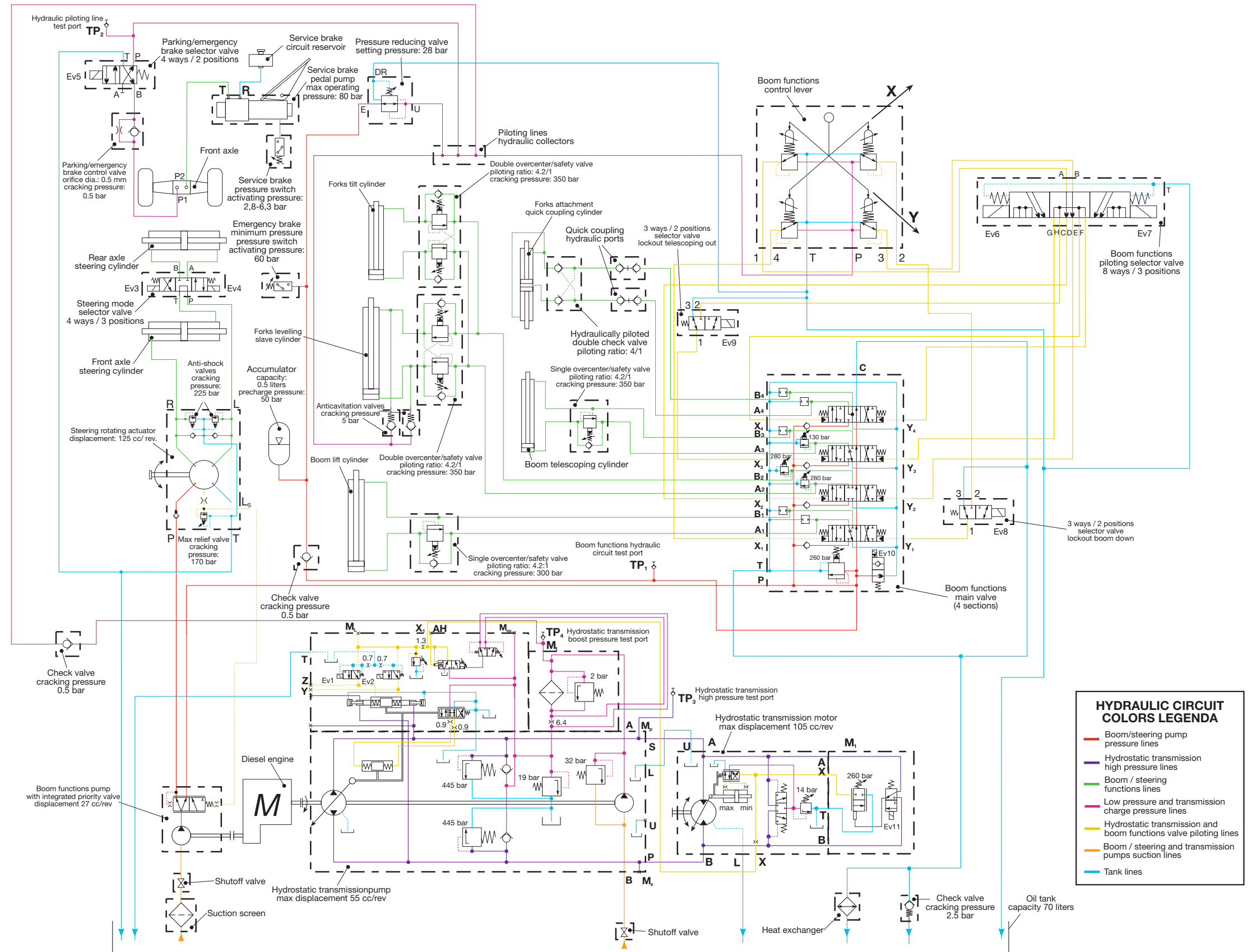
Acronym	Colour
BK	Black
BN	Brown
RD	Red
OG	Orange
YE	Yellow
GN	Green
BU	Blue
VT	Purple
GY	Grey
WH	White
PK	Pink
TQ	Light blue

LIST OF ABBREVIATIONS

Label	Description
F##	Fuses
H##	Lamps, lights, warning lights
HA##	Clacson or back-up horn
K##	Relays
M##	Motor or pump
P##	Indicators
R##	Resistance
RP##	Potentiometers
SW##	Switches, selectors
SS##	Sensors, micro-switches, pressure switches, transducers
Y##	Solenoid valves
X##	Connectors
A##	Other components



■ **G-4.1 HYDRAULIC SCHEME** Drw. 57.2201.1300 rev. A



[illegible]

Block valve 1	Block valve on lifting cylinder
Block valve 2	Block valve on fork balance cylinder
Block valve 3	Block valve on telescope extension cylinder
Block valve 4	Block valve on attachment moving cylinder
Block valve 5	Block valve on attachment locking cylinder
Block valve 6	
Block valve 7	
Block valve 8	
Block valve 9	
Micro 1	Presence micro-switch in driving seat (only in the TCE version)
Micro 2	
Micro 3	
Micro 4	
Micro 5	
SAR + Display	Overload warning system - Electronic card and display
EMERGENCY	Emergency stop pushbutton
Joystick button	Dead man pushbutton on control lever (not present in the TCE version)