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OPERATION AND MAINTENANCE MANUAL



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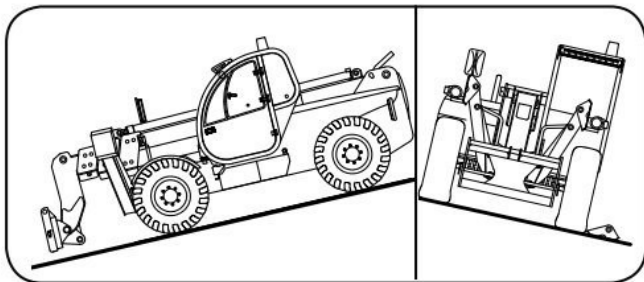
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INTRODUCTION GUARANTEE VEHICLE IDENTIFICATION



SAFETY REGULATIONS



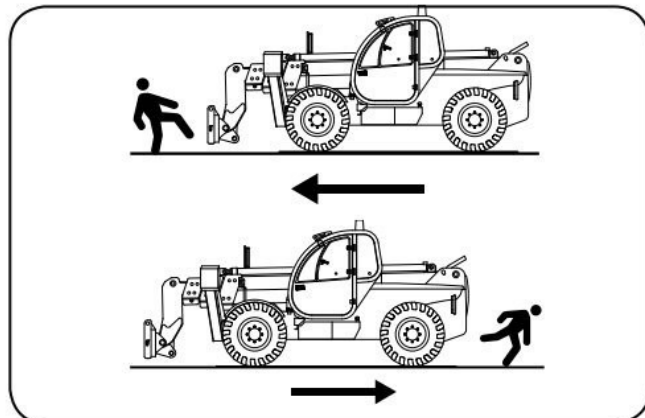


- Driving on side sloping roads may cause overturning or sliding. Take proper precautions.
- Do not leave the vehicle loaded on a slope exceeding 15%, even when the parking brake is engaged.
- Make sure the vehicle is level before lifting the boom when operating on sloping ground.
- When moving on longitudinal slopes:
 - Drive and brake delicately.
 - When moving without loads turn forks or attachments downstream.
 - When moving with loads turn forks or attachments upstream.

! - ATTENTION - !

Snow can hide obstacles and objects, and cover holes dug-out areas and ditches. Proceed with caution when working in snowy conditions. Operation of the vehicle if the quantity of snow does not allow for clear distinction of obstacles and possible dangers along the path IS STRICTLY PROHIBITED.

- Take care when clearing snow and do not venture off the main road; that which is hidden at the sides of the road may cause vehicle overturning or damage to various components.
- Surfaces covered by snow or ice are extremely dangerous. Operate with caution, reducing vehicle speed as much as possible and engaging levers slowly.
- Operate with caution. If the vehicle should sink into the snow, it may overturn or remain buried. Do not venture from the road and avoid remaining entrapped or buried under heaps of snow.
- Extra care should be taken, when working on icy terrain. Should the temperature rise, the ice could melt and the ground could become slippery.
- Use caution in the presence of electrical cables, ditches, or freshly excavated or worked ground.
- Make sure not to cause risk to others in the area when backing up the vehicle.
- Always check the space around the vehicle before carrying out any manoeuvres.



- Make sure there is no one in the vehicle's trajectory or in work zone.
- Designate someone on the ground to supervise manoeuvres if the operator's field of vision is obstructed. Always maintain visual contact with the person on the ground.

! - ATTENTION - !

Do not attempt to carry out operations which exceed vehicle's capability.

! - ATTENTION - !

Do not lift loads exceeding the capacity of the vehicle or accessories and do not increase the size any counter-balance regardless of the artifice utilised.

- Avoid obstacles.
- When lifting a load, ensure that nothing and no one hampers the movement and avoid false manoeuvres.
- Never leave the motor running when no operator is present.
- Never leave the key in the vehicle when it is unattended.

! - ATTENTION - !

Never leave the vehicle in the parked position with a load raised.

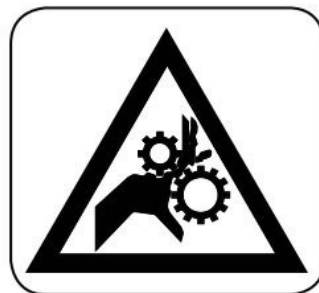
- Dust, rain, fog etc. may reduce visibility. If visibility is limited, reduce speed and use appropriate lighting.

- Ensure you are familiar with maintenance procedures before starting work.
- Keep the work zone clean and dry.
- Do not lubricate parts or carry out maintenance work when the vehicle is in motion.
- Never carry out maintenance on a moving vehicle.
If maintenance needs carrying out with the engine running, **it must be carried out only by personnel authorised by the Dealer or directly by the Manufacturer, DIECI s.r.l.**

Request assistance of at least two workers and follow the instructions below:

- One worker must always be seated in the driver's seat, ready to switch off the engine at any time.
All workers must remain in contact with one another.
- Take care not to remain entrapped in components during the execution of operations performed on the fan, belt or other rotating parts.
- Do not touch levers or control pedals. Should a lever or pedal need to be moved, always warn operators first so they can move out of harm's way.
- Do not allow instruments or other objects to fall into the vehicle's rotating parts, as these parts may break and be projected out causing danger.

- If you need to perform repair or maintenance work under the vehicle, firmly support the equipment being used and the vehicle with blocks that are solid enough to support the weight.
- Store attachments removed from the vehicle in a safe place where they do not risk falling. Take precautions to prevent unauthorized persons from approaching the storage area.
- Do not rest metal parts on the battery.
- Disconnect the battery wires before working on the electrical system or before carrying out arc welding on the vehicle.
- Welding operations must always be carried out by qualified welders and in areas equipped with suitable equipment. There is danger of gas leaks, fire or electrocution during welding operations; Do not allow unqualified personnel to carry out such operations.
- When carrying out electric welding, connect the earth of the welding machine as close as possible to the area to be welded, and prevent the electric current from passing through ball bearings, articulated joints, hydraulic cylinders or sliding parts. If welding must be done in proximity to the oil or fuel tank, empty the tanks before welding.



! - ATTENTION - **!**

DAMAGE MAY BE CAUSED BY ENTANGLEMENT IN MOVING PARTS. PREVENT ACCIDENTS WHILE YOU ARE WORKING BY ENSURING THAT, HANDS, FEET, CLOTHING, JEWELLERY AND HAIR CANNOT GET CAUGHT IN MOVING PARTS.



! - DANGER - **!**

EXHAUST GASES FROM THE ENGINE ARE TOXIC AND CAN CAUSE DAMAGE TO YOUR HEALTH.

! - DANGER - **!**

THE VEHICLE MUST BE OUTDOORS WHEN THE ENGINE IS RUNNING.

THE VEHICLE CAN BE KEPT IN A CLOSED AREA ONLY IF IT IS PROPERLY VENTILATED AND THE VEHICLE IS EQUIPPED WITH SPECIAL PURIFIERS.



! - ATTENTION - **!**

IF YOU NEED TO WORK UNDER THE RAISED MOBILE PARTS (BOOMS, SHOVELS, ETC.) OF THE VEHICLE, BLOCK THEM USING SPACERS PLACED ON THE CYLINDER RODS OR LEAN THEM UP AGAINST APPROPRIATELY SIZED SUPPORTS.

STORING DANGEROUS FLUIDS

- Handle fuels carefully; they are highly inflammable. If fuel is ignited, there may be an explosion and/or fire.



! - ATTENTION - !

All fuels, the majority of lubricants and some types of antifreeze are inflammable.

- All inflammable fluids must be stored in special containers and the contents clearly indicated. The containers must be airtight.

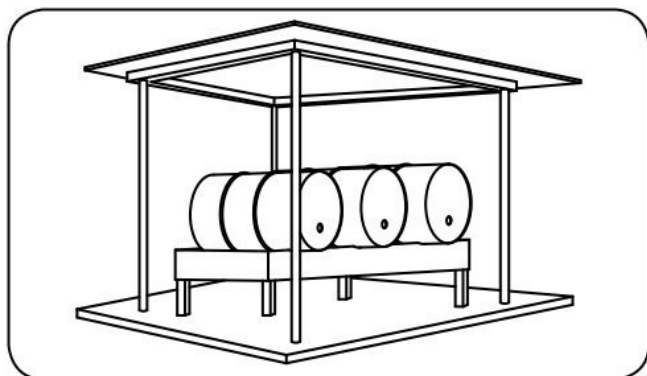
! - ATTENTION - !

All fluids must be stored out of reach of children and unauthorised personnel.

- Different fluids must not be mixed together.

! - ATTENTION - !

All chemical products are generally toxic; avoid contact with the skin and eyes by wearing suitable protective clothing. Do not swallow.



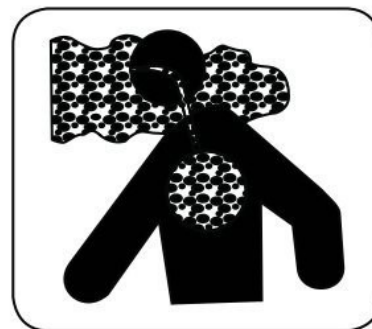
! - ATTENTION - !

Store inflammable fluids in an especially reserved, well-ventilated storeroom, far from heat sources, sparks and flames.

Keep containers closed and indoors.

There must be no other substances inside the inflammable fluids storeroom (e.g. food).

- Always fill the tank in the open air.



- Beware of the fumes and vapours produced by chemical products. Do not inhale.
- Do not inhale combustion fumes.
- Ensure these chemical products are not dispersed in the soil, sewers or surface water. If necessary, inform the competent local authorities.
- In case of fire, use carbon dioxide, dry chemical powder, foam, water mist, sand or earth. Use jets of water to cool surfaces exposed to the fire.
- Ensure the storage containers do not leak inflammable fluids (fuel, oil, grease, lubricants in general).

CONTACT WITH DANGEROUS FLUIDS

- Avoid contact with the skin or eyes.
- Wear appropriate protective clothing.
- In case of contact with the eyes, rinse immediately with plenty of water for a few minutes holding the eyelids open and then consult a doctor.
- In case of contact with the skin, wash the area carefully with soap and water, remove any contaminated clothing, and if the skin tends to be dry, apply a moisturising cream.
- In case of inhalation, leave the contaminated area and reach a well-ventilated location. Consult a doctor in case of respiratory problems.
- If swallowed, consult a doctor. Show the doctor the label or the container. Do not provoke vomiting to avoid the risk of inhaling the product through the respiratory tract.

DRIVER'S CAB

(fig.13/B Pos."1")

All vehicles are equipped with a driver cab that also acts as a safety cell for the operator.



- ATTENTION -

THE CAB IS A SAFETY COMPONENT AND THEREFORE MUST ALWAYS BE KEPT ACCORDING TO PROPER CONDITIONS FOR USE.



- PROHIBITION -

IT IS PROHIBITED to modify,

perforate or alter the cab structure in any way.

If the cab is tampered with the guarantee is automatically voided and the manufacturer is relieved of all liability.

- **DO NOT** weld or mechanically connect components to the cab's chassis.
- In case you need to replace attachment bolts, only use elements of the same class of resistance.
- Never connect chains or ropes to the cab for towing purposes.
- In the event of vehicle overturning, do not attempt to exit from the cab during the accident.



- ATTENTION -

REMAIN INSIDE THE CAB WITH SEAT-BELT FASTENED FOR BEST PROTECTION.

ROPS-FOPS CAB

(fig.13/B - Pos. "1")

The vehicle is equipped with a ROPS and FOPS-approved cab. The operator is therefore protected against overturning and falling objects, as prescribed for traxcavators. During use, it is compulsory the use of safety seat belts to prevent the driver's impact with the cab inner structures. The rear window may be used as emergency exit. Opening the window completely during use of the vehicle **IS STRICTLY PROHIBITED**, due to possible shearing hazards between boom and chassis

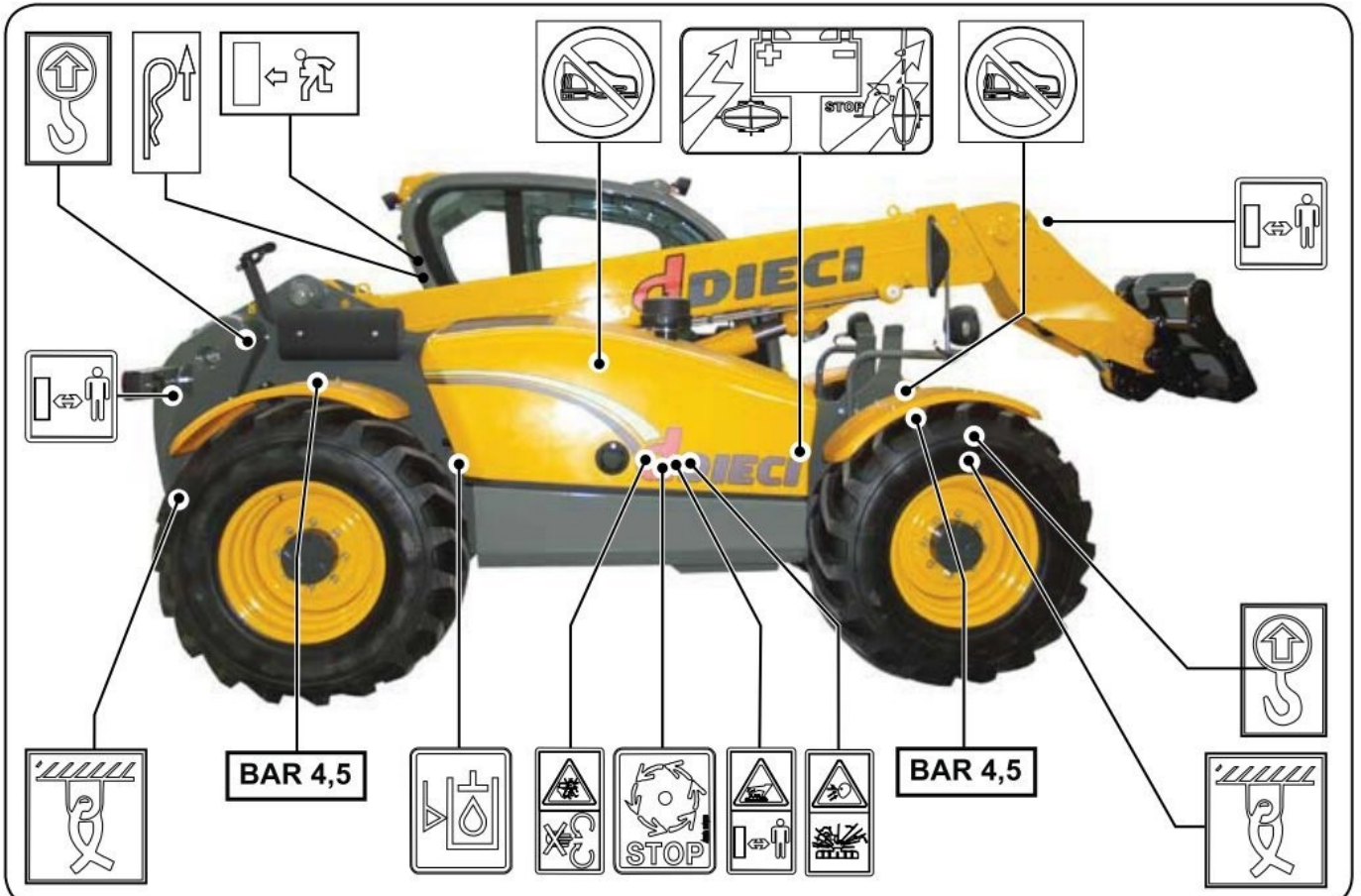


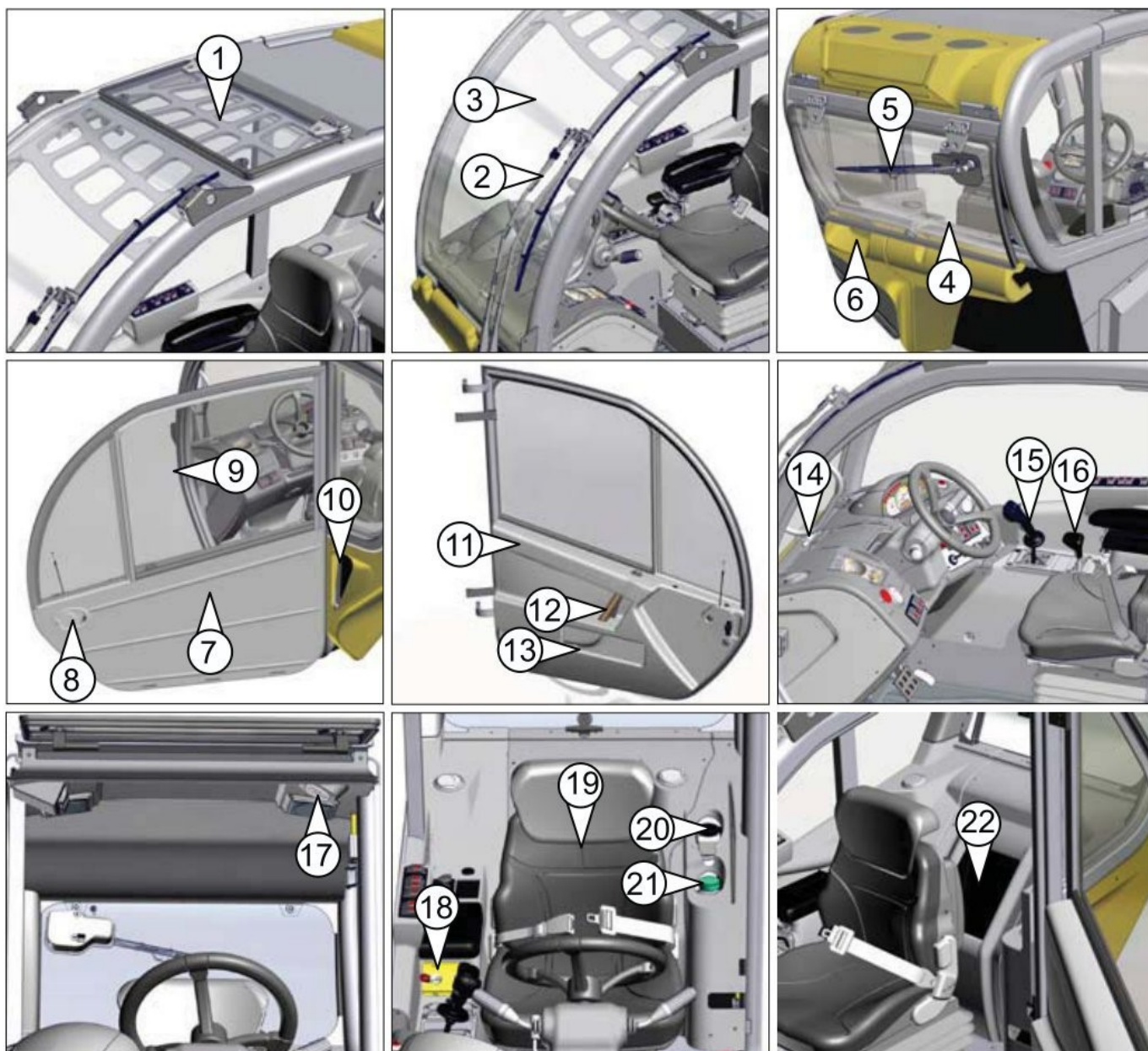
- ATTENTION -

IF THE CAB SHOWS VISUAL DAMAGE, IT MUST BE REPLACED; CONTACT AN AUTHORISED SERVICE CENTRE OR AUTHORISED WORKSHOP OF DIECI.



(fig.13/B)





Cab components

- | | |
|-------------------------------------|--|
| 1. Upper roof | 12. Door opening/closure handle |
| 2. Front windscreen wipers. | 13. Courtesy compartment |
| 3. Front window / emergency exit | 14. Spirit level |
| 4. Rear window / emergency exit. | 15. Boom movements joystick |
| 5. Rear windscreen wiper. | 16. Attachment control joystick (if present) |
| 6. Revolving light outlet. | 17. Ceiling lighting inside cab. |
| 7. Cab door (external view) | 18. Operational mode selector |
| 8. External opening/closure handle | 19. Seat |
| 9. Upper door window. | 20. "Inching" Power Shift gear box oil tray |
| 10. Cab internal ventilation intake | 21. Windscreen washer liquid tank. |
| 11. Cab door (internal view) | 22. Technical documentation pocket |



- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual) carefully for the safety of all personnel and your vehicle.

- To adjust backrest inclination, move lever "E" (fig.24/C) and push back on the backrest. The backrest will automatically adapt to the Operator's body.

! - ATTENTION

The seat has been correctly positioned when the operator is able to push the brake pedal completely down with his/her back firmly against the backrest.



(fig.24/C)

IGNITION SWITCH

(fig.34/C)

The ignition switch, with the key, allows you to:

- Switch on the instruments.
- Switch on the diesel engine.
- Release the parking brake automatically with the diesel engine in motion (fig.34/C Pos."1").
- Automatically engage the parking brake with the diesel engine off (fig.34/C Pos."0").

Conditions for start-up

Start-up can only occur if:

- The operator is correctly seated in the driver's seat.
- The gear selector is in the "N", or neutral, position.

Switching on instruments

Turn the key to position "1" (fig.374C) to power the electrical/electronic instruments.

When the dashboard is switched on, a check will be carried out on the instruments with all the indicator lights switched on and emission of an acoustic signal.

These will remain on until the engine is switched on:

- Battery indicator light
- Engine oil pressure indicator light

Other indicator lights may remain lit depending on the functions activated.

When the engine is running, the indicator lights signalling faults/malfunctions should go off and only those referring to active functions should remain switched on. If this is not the case, consult the "maintenance" chapter of this manual and contact a **DIECI** service centre.

Start-up

- Turn the key to position "1" (fig.34/C) to power the instruments.
- Turn the key to position "2" (fig.34/C) and keep it there for a few seconds in order to start-up.
- Once the engine has been started, release the key.

In the engine does not start within 5 seconds, try again at regular 15 second intervals to avoid overloading the starter.

During the first few minutes of use, keep transfer and load lifting speed low in order to heat up the engine and hydraulic oil. Operate at low RPMs (max 1500), avoiding sharp manoeuvres and accelerations until the temperature has risen.

! - ATTENTION

Bring the engine to a high number of RPMs before high temperature and pressure can cause any serious damage to the engine or the hydraulic system.

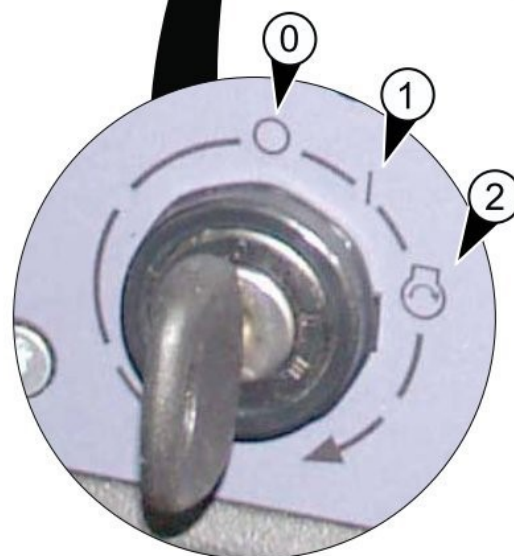
! - ATTENTION

With the motor started, the automatic parking brake disengages. Before starting up the vehicle, always verify that the parking brake has been manually engaged using its switch. To release the parking brake when the engine is stopped, refer to the paragraph, "towing the vehicle".

! - ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual) carefully for the safety of all personnel and your vehicle.



(fig.34/C)



! - ATTENTION - !

If the engine cannot be started, check that an emergency button has not been pressed (fig.34/C Pos."E"). If pressed, contact the Safety Manager to make sure there is no maintenance in progress, malfunctioning of the vehicle or dangerous situations.

If the engine does not start, consult the "maintenance" chapter of this manual and contact a **DIECI** service centre.

BOOM CONTROL LEVER

(fig.49/C Pos."1")

This lever is found to the right of the operator (fig.49/C Pos."1"). It is used to manoeuvre the boom and its extremities.

- ATTENTION

Before using the boom make sure that the surrounding area is free. Make sure that the loads to be raised correspond with the capacity diagrams of the vehicle.

- ATTENTION

The instructions refer to the standard version at the time of printing. In there are special options or following technical updates, lever movements may correspond to different controls. For this reason, always refer to instructions present inside the driver's cab.

- ATTENTION

The Manufacturer offers a range of levers (Joysticks) for boom movement with different technical specifications and those different than the standard version (see following pages).



(fig.54/C)



If using an accessory different to those indicated as "other accessories" when in "Shovel" mode, there is a danger of overturning.

 - **ATTENTION**

The selection of the "elevation platform mode" for lifting persons excludes the possibility of selecting steering different from that set.

 - **ATTENTION**

only use of **DIECI** original attachments is allowed. **DIECI** declines all responsibility for damage to the vehicle, people or things in cases where original attachments have not been used.

 - **ATTENTION**

Mounting attachments different that those approved by **DIECI** is prohibited.



IT IS PROHIBITED to use the vehicle with different attachments from those selected using the "vehicle functions selector".



THE BASKET CAN BE USED FROM THE CAB BY SETTING THE "VEHICLE FUNCTION SELECTOR" ON "FORKS" (FIG.70/C POS."B") ONLY TO TAKE THE BASKET TO THE GROUND IN THE EVENT THE OPERATOR IS FEELING ILL OR HAS BEEN HURT.

BOOM HEAD LIGHT SWITCH

(OPTIONAL)

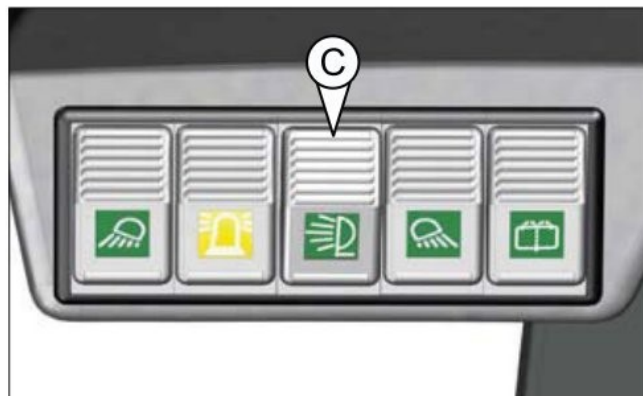
(fig.93/C Pos."C")

Use the relevant switch (fig.93/C Pos."C") to turn on the boom head light (fig.94/C Pos."1"). The indicator light switches on to indicate successful activation.

Two work lights, one on the right side and the other on the left side of the boom, can be installed upon client request.

- ATTENTION

The vehicle can only mount lights supplied by **DIECI**. Danger of damage to the electrical system in case of use of non original lights.



(fig.93/C)



(fig.94/C)

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**PTO
(OPTIONAL)**
(fig.131/C pos."1")

To activate the power take-off, operate on its switch (fig.130/C pos."1").

The indicator light on the relevant switch will signal start-up.

The PTO pump has hydraulic connections that are independent from the rest of the vehicle hydraulic plant. Before activating the PTO, check that the hydraulic supply pipes are connected.

If this is not the case, act as follows:

- Stop the vehicle on a flat, level surface.
- Switch off the engine and remove the key from the dashboard.
- Discharge the pressure from the hydraulic plant by moving the Joystick in the cab.
- Insert the pump hydraulic pumps of the PTO in the hydraulic connections on the rear of the vehicle (fig.132/C pos."2").
- Once the pump is connected to the plant, it is possible to start the vehicle and activate the PTO.

! - ATTENTION

When the switch has been inserted the PTO starts immediately.

Engage the Cardan shaft before starting the PTO.

Keep at a safe distance from the Cardan shaft.

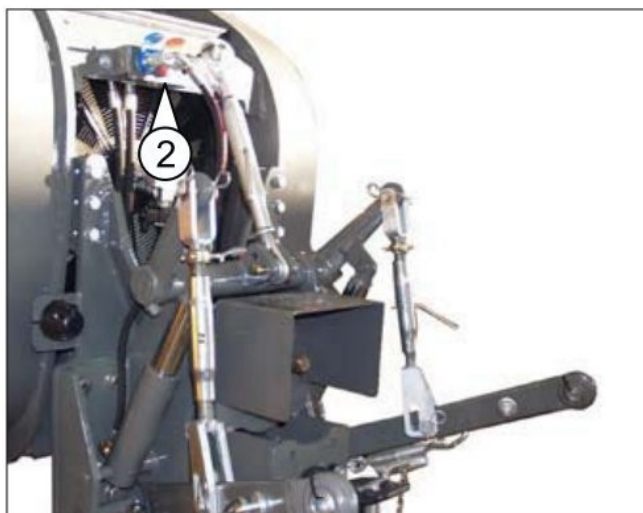
Before starting the PTO, check that no-one is in the vicinity of the same, the Cardan shaft and the mechanical user of the socket.

! - ATTENTION

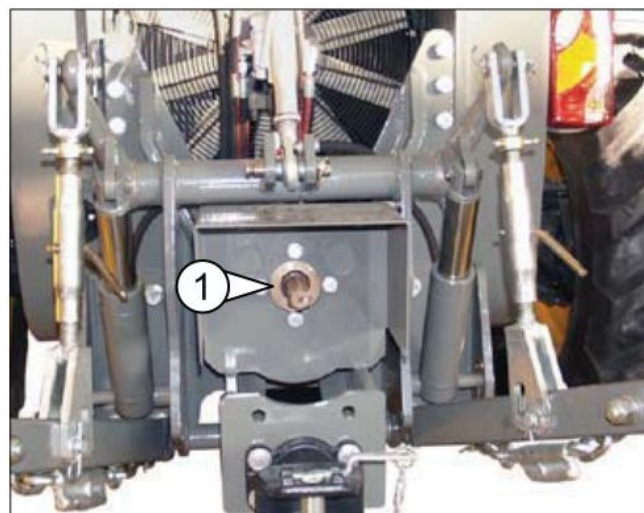
If the PTO should undergo stress greater than nominal, supplied by the manufacturer, automatic disconnection takes place, with blocking of the revolving motion.



(fig.130/C)



(fig.132/C)



(fig.131/C)

! - ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual) carefully for the safety of all personnel and your vehicle.

STANDARD DISTRIBUTOR

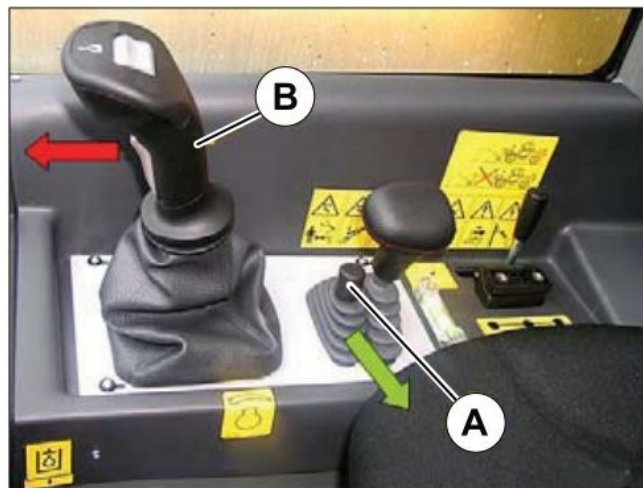
- Extension retraction

No other operations in cab are required, move only the emergency pump with the lever in position "2" (fig.195).

- Boom descent

To operate boom descent, activate Joystick "B" forward (fig.196), at the same time as pumping performed by the ground operator.

Move the basket by alternating extension retraction and boom descent movements, in a way to remain always within the work diagram.



(fig.196)

ELECTRO-HYDRAULIC DISTRIBUTOR PROPORTIONAL FOR BASKET

Take levers "A" and "B" and fasten them into their dedicated seats "C" (fig.197).

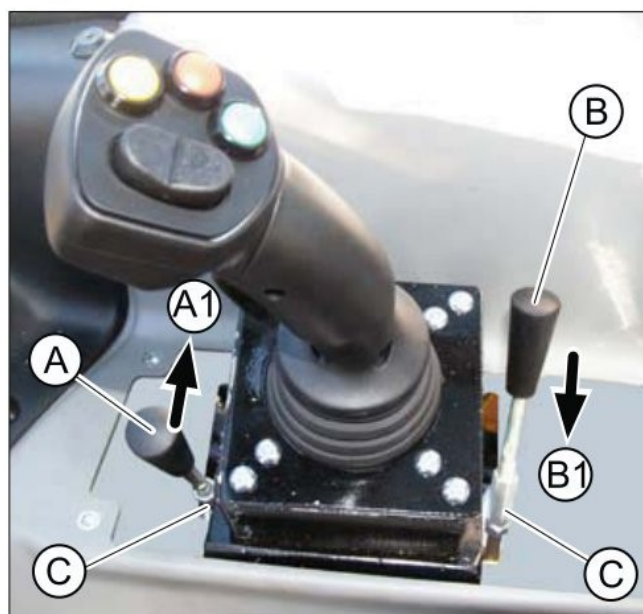
- Extension retraction

To operate extension retraction, activate lever "A" to the left (fig.197 Pos."A1") at the same time as pumping performed by the ground operator.

- Boom descent

To operate boom descent, activate lever "B" to the right (fig.197 Pos."B1") at the same time as pumping performed by the ground operator.

Move the basket by alternating extension retraction and boom descent movements, in a way to remain always within the work diagram.



(fig.197)

! - ATTENTION

When the recovery has been made, put the rod and any distributor levers back in the tool box. DO NOT operate with the levers used for the recovery still installed.











! - ATTENTION

Do not move the joystick before the ground operator starts using the pump, or any residue pressure will be discharged from the hydraulic circuit, causing the prolonging of the first aid operation.





! - ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual) carefully for the safety of all personnel and your vehicle.

Switch-on of dashboard indicator lights

Some signal indicator lights, which are particularly important for the duration and use of the same in complete safety have been coupled to the general alarm indicator light (fig.205/C) with acoustic signal lasting 1.5 seconds. The acoustic signal functions only with the engine running. The signalling of alarms by the indicator light "1" (fig.205/C) has priority over other signals that this communicates. Other anomaly signal lights have not been coupled to the general alarm indicator light and have their own type of signal (fig.206/C).

	LED 1	LED 2	Acoustic signal (Buzzer)
Coupling 1			YES (1.5 seconds)
Coupling 2			YES (1.5 seconds)
Coupling 3			YES (1.5 seconds)
Coupling 4			YES (1.5 seconds)
Coupling 5			YES (1.5 seconds)

(fig.205/C)

Function	LED	Type of signal
Insufficient pressure in the accumulator		Fixed
Parking brake failure		Fixed
Brake fluid low level		Intermittent (0.5"on, 0.5"off)
Drive oil temperature		* Note

(fig.206/C)

* **Note: Fixed** (Vehicle with Power Shift Gearbox)

* **Note: Fixed on** < -20°C < **Intermittent on** < 20°C < **Off** > 105°C > **Intermittent** > 115°C > **Fixed on**
(Vehicle with Vario System Drive)

* Note: With Vario System drive

- The vehicle functions regularly between 20°C and 105°C.
- The power descends between -20°C and 20°C
- The power descends between -105°C and 115°C
- The vehicle blocks below -20°C
- The vehicle blocks over 115°C



- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual) carefully for the safety of all personnel and your vehicle.

Error code	operation ECON.A	Operator intervention
00.1F	"ECON.A continues to function normally or, in certain cases, ECON.A goes back to shutdown drive mode. In this case, when the speed of the vehicle is low enough, this can lead to the passage to limp home drive mode: the vehicle will be kept in neutral while the error persists. Once eliminated and the neutral position has been selected, ECON.A will only function in limp home drive mode until it is re-started. In all cases this will result in reduced functionality of the vehicle, which will depend on the digital input function assigned."	Contact a <i>Dieci</i> after-sales centre
01.1F	"ECON.A continues to function normally or, in certain cases, ECON.A goes back to shutdown drive mode. In this case, when the speed of the vehicle is low enough, this can lead to the passage to limp home drive mode: the vehicle will be kept in neutral while the error persists. Once eliminated and the neutral position has been selected, ECON.A will only function in limp home drive mode until it is re-started. In all cases this will result in reduced functionality of the vehicle, which will depend on the digital input function assigned."	Contact a <i>Dieci</i> after-sales centre
02.1F	"ECON.A continues to function normally or, in certain cases, ECON.A goes back to shutdown drive mode. In this case, when the speed of the vehicle is low enough, this can lead to the passage to limp home drive mode: the vehicle will be kept in neutral while the error persists. Once eliminated and the neutral position has been selected, ECON.A will only function in limp home drive mode until it is re-started. In all cases this will result in reduced functionality of the vehicle, which will depend on the digital input function assigned."	Contact a <i>Dieci</i> after-sales centre
03.1F	ECON.A continues to function normally or, in certain cases, ECON.A goes back to shutdown drive mode. In this case, when the speed of the vehicle is low enough, this can lead to the passage to limp home drive mode: the vehicle will be kept in neutral while the error persists. Once eliminated and the neutral position has been selected, ECON.A will only function in limp home drive mode until it is re-started. In all cases this will result in reduced functionality of the vehicle, which will depend on the digital input function assigned.	Contact a <i>Dieci</i> after-sales centre
04.1F	ECON.A continues to function normally or, in certain cases, ECON.A goes back to shutdown drive mode. In this case, when the speed of the vehicle is low enough, this can lead to the passage to limp home drive mode: the vehicle will be kept in neutral while the error persists. Once eliminated and the neutral position has been selected, ECON.A will only function in limp home drive mode until it is re-started. In all cases this will result in reduced functionality of the vehicle, which will depend on the digital input function assigned.	Contact a <i>Dieci</i> after-sales centre
05.1F	"ECON.A continues to function normally or, in certain cases, ECON.A goes back to shutdown drive mode. In this case, when the speed of the vehicle is low enough, this can lead to the passage to limp home drive mode: the vehicle will be kept in neutral while the error persists. Once eliminated and the neutral position has been selected, ECON.A will only function in limp home drive mode until it is re-started. In all cases this will result in reduced functionality of the vehicle, which will depend on the digital input function assigned."	Contact a <i>Dieci</i> after-sales centre

MAINTENANCE PRESCRIPTIONS

INTRODUCTION

This vehicle has been designed and built to provide maximum performance, savings and facilitate its operation in various working conditions. Before delivery, the vehicle was tested both by the Manufacturer and by the Dealer to ensure its maximum condition. To preserve these conditions and guarantee problem-free operation, it is important to carry out the routine maintenance operations described in this manual at an authorised **DIECI** dealer in accordance with the maintenance schedule provided.

Maintenance

This section of the Manual provides all the maintenance prescriptions necessary for maintaining the **DIECI** vehicle in perfect working condition.

This chapter also provides information on carrying out the various adjustments necessary to keep the vehicle tuned. The vehicle must receive regular routine maintenance in order to give the best results. It is recommended that all services be carried out as prescribed in the service schedule suggested by **DIECI**. Remember that it is the owner's and/or users responsibility to keep the vehicle in safe working condition and suitable to be driven on public and private roads.

Maintenance or adjustment operations not described in this chapter or in the rest of the manual must be carried out by qualified personnel respecting the conditions of safety in order to guarantee their safety and the safety of others. Only **DIECI** Dealer maintenance staff have been trained to carry out said interventions and only they have the special equipment and tools necessary to guarantee maximum safety, precision and efficiency.

Spaces for registering periodic inspections can be found at the end of this Manual. These allow operators to plan interventions and register them in chronological order. After each inspection, the Dealer must insert the date of intervention, a signature and the Dealer stamp in the space.

Proper vehicle maintenance not only improves the vehicle reliability but it also preserves vehicle value over time.

Owner/ Operator Assistance

Make note of this important data before contacting your service centre, in order to obtain maximised service assistance from your Dealer.

- 1 - Specify your name, address and telephone number.
- 2 - Provide the model and chassis serial number of the vehicle.
- 3 - Indicate the purchase date and working hours.
- 4 - Explain the type of malfunction.

Only **DIECI** Dealers have access to **DIECI** client service resources. Moreover, Dealers are able to offer a variety of programmes concerning guarantee, fixed rate maintenance and safety checks including weight tests, in compliance with both legal and insurance requirements.

Protect the environment

It is illegal to pollute sewers, water sources or soil. Use only authorised dumping grounds centres, including the areas designated by the local authorities or workshops equipped with the necessary tools for the disposal of used oils. If in doubt, contact your local authority for relevant instructions.



IT IS MANDATORY TO HAVE READ AND LEARNED CHAPTERS "B"-"C" (SAFETY STANDARDS/TO KNOW AND USE THE VEHICLE) BEFORE READING CHAPTER "D" AND SERVICING THE VEHICLE.

UNDERSIDE PROTECTION REMOVAL

Vario system gear box

To perform the maintenance interventions listed below, the vehicle underside protection must be temporarily removed from the vehicle. The underside protections protect the bottom of the vehicle and the mechanics applied from any blows, collisions, dirt.

The vehicle has three underside protections:

- Chassis Front Underside Protection (fig.52D Pos."A")
- Chassis Rear Underside Protection (fig.2/D Pos."B")
- Engine Underside Protection (fig.2/D Pos."C")

Every underside protection is made up from a guard that allows to inspect the various zones without "uncovering" the entire zone and therefore removing the main covering.

Remove the chassis front underside protection (fig.2/D Pos."A") to perform the following maintenance:

- Check Vario System drive oil level
- Vario System Drive oil replacement.
- Transmission shafts and differential axles greasing

Remove the chassis rear underside protection (fig.2/D Pos."B") to perform the following maintenance:

- Changing hydraulic oil and replacing filters
- Check Vario System drive oil level
- Vario System Drive oil replacement.
- Transmission shafts and differential axles greasing

Remove engine underside protection (fig.2/D Pos."C") to perform the following maintenance:

- Hydrostatic oil filter replacement
- Check Vario System drive oil level
- Vario System Drive oil replacement.

Remove guard (fig.2/D Pos."1-2-3") to perform the following maintenance:

- Lubrication of drive/Cardan shafts

Remove guard (fig.2/D Pos."4") to perform the following maintenance:

- it does not envision specific maintenance

Remove guard (fig.2/D Pos."5") to perform the following maintenance:

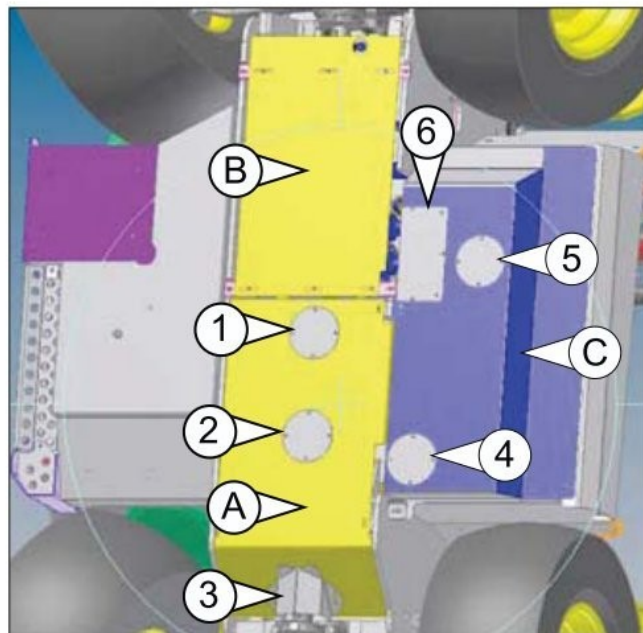
- Replace Diesel engine oil

Remove guard (fig.2/D Pos."5") to perform the following maintenance:

- Replace Diesel engine oil filter

- ATTENTION:

Remove the guards and underside protection with care, taking all of the precautions necessary in order to prevent damage and/or injury. Once maintenance operations have been completed, remount the guards and underside protections.



(fig.2/D)

- ATTENTION -

For the safety specifications, refer to chapter "B",
"Carrying out maintenance in safety"
paragraph page B/16.

VARIO SYSTEM DRIVE OIL LEVEL

(fig.32/D Pos."1")

Routine maintenance should be carried out at the prescribed intervals. To correctly check the drive level:

- Stop the vehicle on a flat, level surface with differential oil still hot.
- Switch off the engine and remove the ignition key, hang up a sign in the cab that reads "maintenance work under way".
- Unscrew the oil level cap (fig.32/D Pos."1"). The level is correct when the oil escapes slightly or is a few millimetres (max.2mm) below the orifice of the level cap.

- ATTENTION:

If the oil is not at the correct level, top-up through the orifice of the level cap until it escapes from the same. Top up must be performed with oil and drive at environment temperature.

- ATTENTION:

Always keep oil at correct level. Operating with a level that is too low, can cause overheating and damage to the drive.

- ATTENTION:

The drive level check must be performed with the engine running. Follow all indications stated in chapter "B" to perform this operation in total safety.

- ATTENTION:

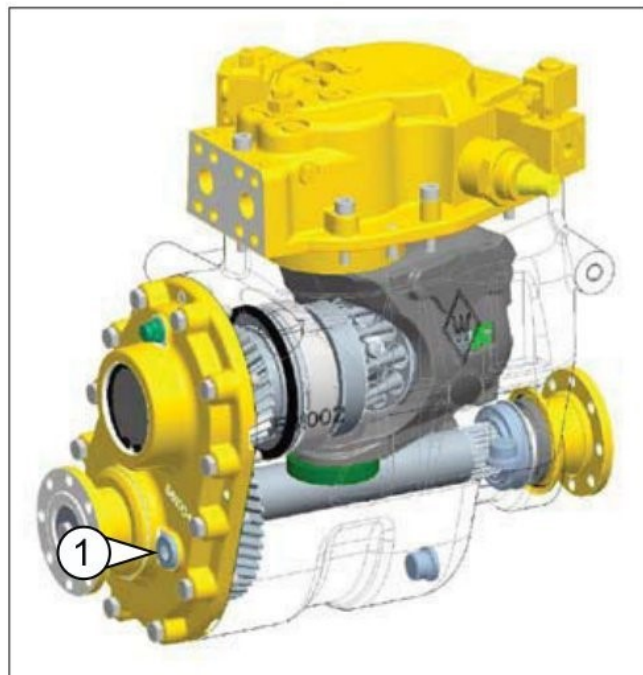
If the oil must be replaced in the drive, consult the "Vario System drive oil replacement" paragraph.

- ATTENTION:

The underside protection must be removed for this operation. Consult the "Underside removal" paragraph.

- ATTENTION:

For the oil level and to change the oil, contact a DIECI after-sales centre.



(fig.32/D)

B) Boom extension cylinder: (fig.65/D)

1. Start up the engine. Make sure that the parking brake is engaged and the transmission in neutral.
2. Raise the boom and extend it completely.
3. When the engine is running at 1400 RPMs, engage the control lever to retract the boom.
During boom movement stop the engine.
The boom must slow down and stop as the engine slows down and stops.

If the boom continues to move even after the engine is switched off, the block valve is faulty.
Repair the defect as quickly as possible, contact a **DIECI** service centre.



(fig.65/D)

(Boom internal extension cylinder block valve)

C) Fork swivel cylinder: (fig.66/D)

1. Start up the engine; pick up a load using the forks (example a load bricks or some hay bales).
Tilt the forks completely backwards.
2. Engage the parking brake and put the transmission in neutral.
3. Lift the boom off the ground just enough necessary to allow the forward inclination of the forks.
4. When the engine is running at 1400 RPMs, engage the control lever to tilt the forks forward.
During the fork movement stop the engine.
Movement of the swivel must slow down and then stop as the engine slows down and stops.

If the forks continue to lower or move after the engine is switched off, the block valve is faulty.
Repair the defect as quickly as possible, contact a **DIECI** service centre.



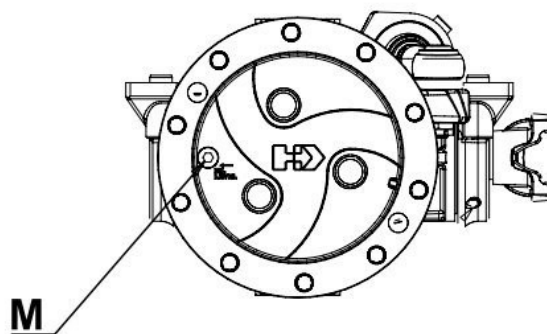
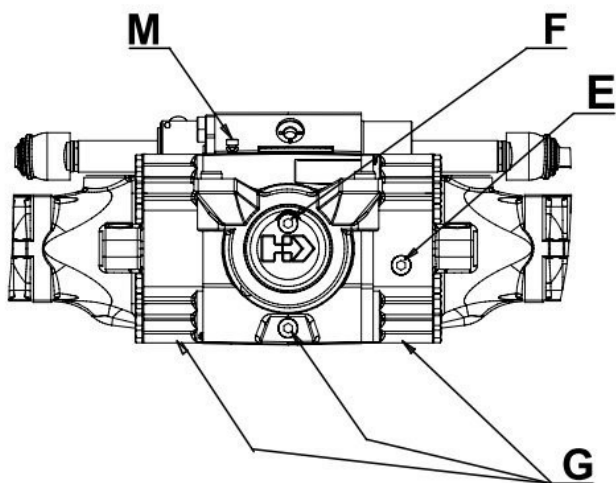
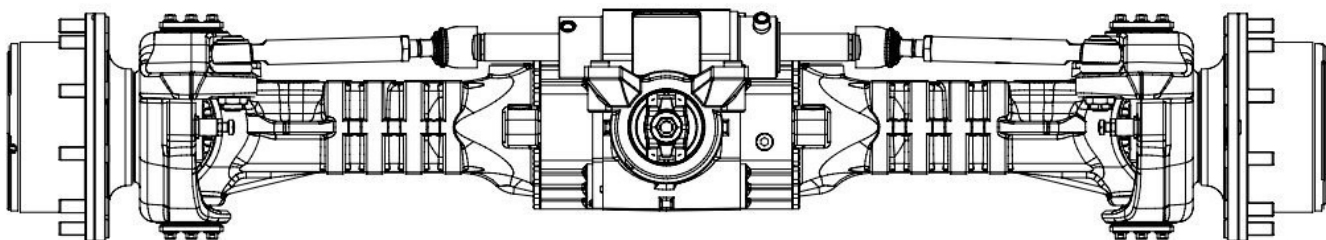
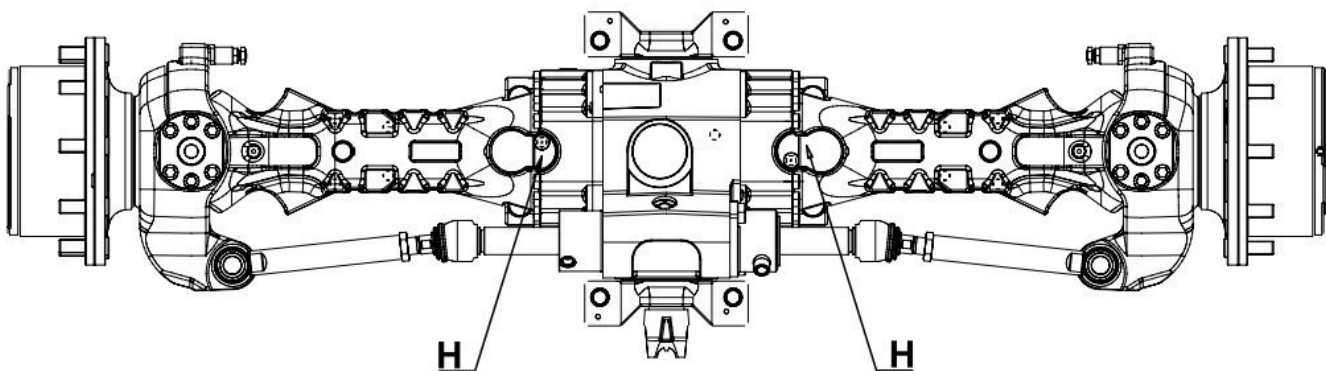
(fig.66/D)

(External swivel plate cylinder block valve)



DIFFERENTIAL AXLE

Key	
E	Oil level cap
F	Drain plug and oil level
G	Drain cap
H	Vent cap
M	Oil cap



(fig.84/D)

! - ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual) carefully for the safety of all personnel and your vehicle.

REAR LIGHT

(fig.109/D)

The rear light is composed of a reverse light (21W) (fig.109/D Pos."1"), rear red light (5W) (fig.109/D Pos."2"), a stop light (21W) (fig.109/D Pos."3"), and a direction indicator (21W) (fig.109/D Pos."4") rear fog (21W) (fig.109/D Pos."5").

To access the bulbs:

- Switch off the vehicle and use the battery isolator to cut-out electrical power.
- Remove the power connection of the rear light.
- Remove the front part of the light by loosening its screws located on the cap.

! - ATTENTION:

To close the light back up, carry out these steps in the opposite order, being careful to position the seal correctly.

Replacing the rear light bulb.

- Press the upper part of the bulb.
- Turn and hold down the bulb to free it from the lock.

Carry out the same steps in the opposite order to insert a new bulb.

WORKING LIGHT

(fig.110/D)

Replacing bulbs

(Fig.112/D Pos."1") (special bulb)

- Switch off the vehicle and use the battery isolator to cut-out electrical power.
- Remove the power connector of the light in the rear part (fig.111/D Pos."1").
- Press the connector grip on the light (fig.111/D Pos."2").
- Turn and hold the grip down, to release it.

Carry out the same steps in the opposite order to insert a new bulb.

DUAL REFLECTOR WORKING LIGHT

(fig.113/D)

Replacing bulbs

(fig.114/D Pos."1") (Type 21w H3)

- Switch off the vehicle and use the battery isolator to cut-out electrical power.
- Remove the screws on the front part of the light.
- Remove the bulb power supply connectors (fig.114/D Pos."2").
- Move the locking tabs, bringing them towards the inside to release them (fig.114/D Pos."3").

Carry out the same steps in the opposite order to insert a new bulb. Treat the bulb closing mechanisms with care (fig.114/D Pos."4") for proper insertion.



(fig.109/D)



(fig.110/D)



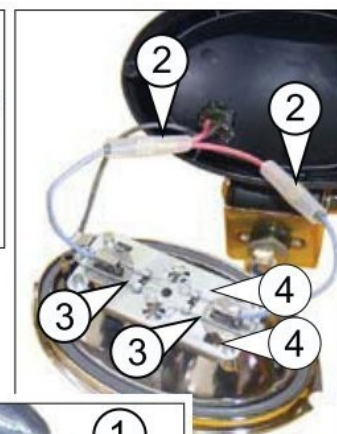
(fig.111/D)



(fig.112/D)



(fig.113/D)



(fig.114/D)



! - ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual) carefully for the safety of all personnel and your vehicle.

MACHINE DETAILS

Manufacturer: *Dieci S.r.l.*

Model: serial number Year

Equipment code serial number Year

Max. capacity [kg]:

Equipment code serial number Year

Max. capacity [kg]:

Equipment code serial number Year

Max. capacity [kg]:

Equipment code serial number Year

Max. capacity [kg]:

Owner:

Work commencement date of machine:

FOR OTHER CONTROLS OR CLAIMS TO RECOGNISED BODIES, REFER TO LOCAL LEGISLATION IN FORCE IN THE COUNTRY WHERE THE VEHICLE IS USED.



- ATTENTION: - Read the SAFETY REGULATIONS (contained in this manual) carefully for the safety of all personnel and your vehicle.

BASE SYSTEM KEY - DWG. N° E25800-051

NAME	DESCRIPTION	SHEET
X165	Current socket	4
X167	INTERFACE CONNECTOR L. RIGHT DASHBOARD - L. DRIVER POSITION	1
X172	INTERFACE CONNECTOR L. WINDSCREEN WINDER - L. DRIVER POSITION	10
X175	DIODES INTERFACE CONNECTOR	9
X176	CENTRING HANDLER SET-UP CONNECTOR	10
X178	OPTIONAL INCREASE CONNECTOR	7
X184.p	CONNECT CONNECTOR WITH X184.s	6
X184.s	CONNECT CONNECTOR WITH X184.p	6
X189.s	DIAGNOSTICS CONNECTOR	1
X193.p	DO NOT CONNECT CONNECTOR WITH X193.s	1
X193.s	DO NOT CONNECT CONNECTOR WITH X193.p	1
X196	CAN LINE END CONNECTOR	3
X200	INTERFACE CONNECTOR L LEFT DASHBOARD - L DRIVER POSITION	
X505	INTERFACE CONNECTOR L MAIN - L DRIVER POSITION	
X506	INTERFACE CONNECTOR L. ENGINE - L. DRIVER POSITION	
X511	INTERFACE CONNECTOR L. ENGINE - L. DRIVER POSITION	
X517	INTERFACE CONNECTOR L MAIN - L DRIVER POSITION	
X525	INTERFACE CONNECTOR L. MAIN - L. DRIVER POSITION	
X552	INTERFACE CONNECTOR L. ENGINE - L. DRIVER POSITION	
X553	INTERFACE CONNECTOR L. MAIN - L. DRIVER POSITION	
X556	LEFT LIGHT EXTENSION INTERFACE CONNECTOR	4
X562	RIGHT LIGHT EXTENSION INTERFACE CONNECTOR	4
X587	TRAILER SOCKET INTERFACE CONNECTOR	4
X610.s	HYDRAULIC JOYSTICK CONNECTOR	6
X611.s	JOYSTICK CONNECTOR	6
X670.p	INTERFACE CONNECTOR L. JOYSTICK	9

WIRE COLOURS

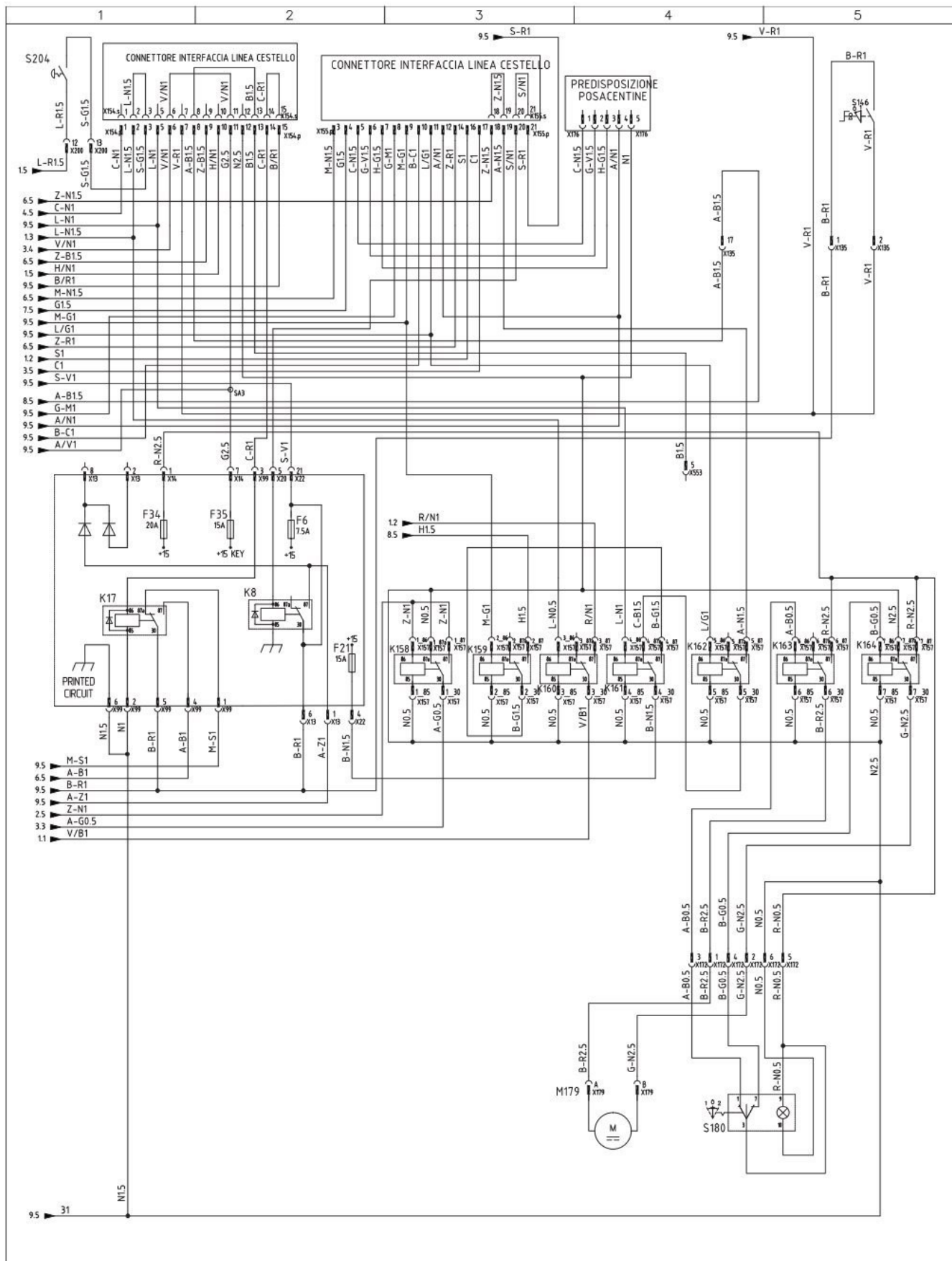
A	SKY BLUE
B	WHITE
C	ORANGE
G	YELLOW
H	GREY
L	DARK BLUE
M	BROWN
N	BLACK
R	RED
S	PINK
V	GREEN
Z	PURPLE

NOTE:

WIRES WITH TWO COLOURS ARE INDICATED BY COMBINING THE SYMBOLS ABOVE, FOR EXAMPLE:

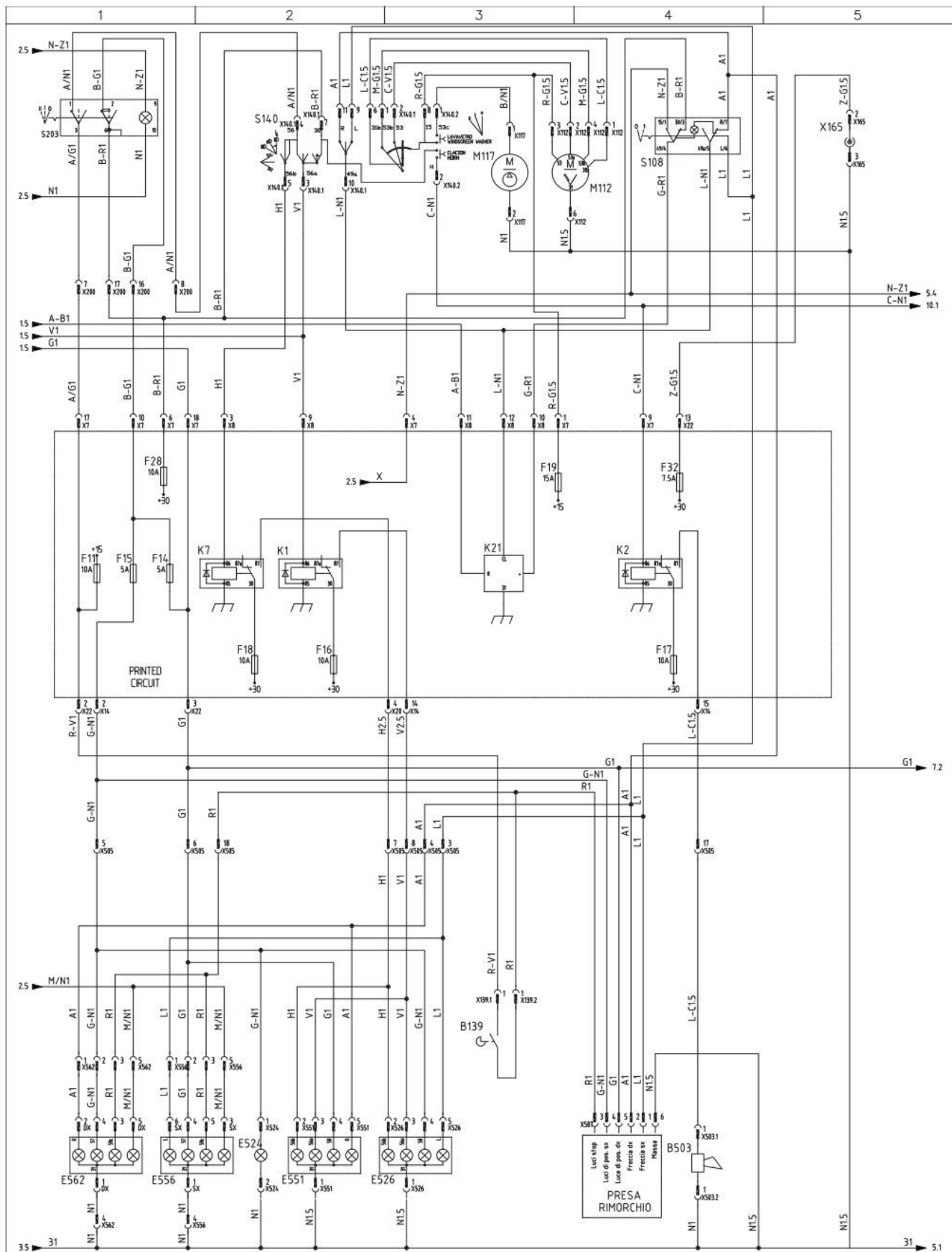
G/V - YELLOW/GREEN (HORIZONTAL STRIPES)

Y-G- YELLOW-GREEN (VERTICAL STRIPES)



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