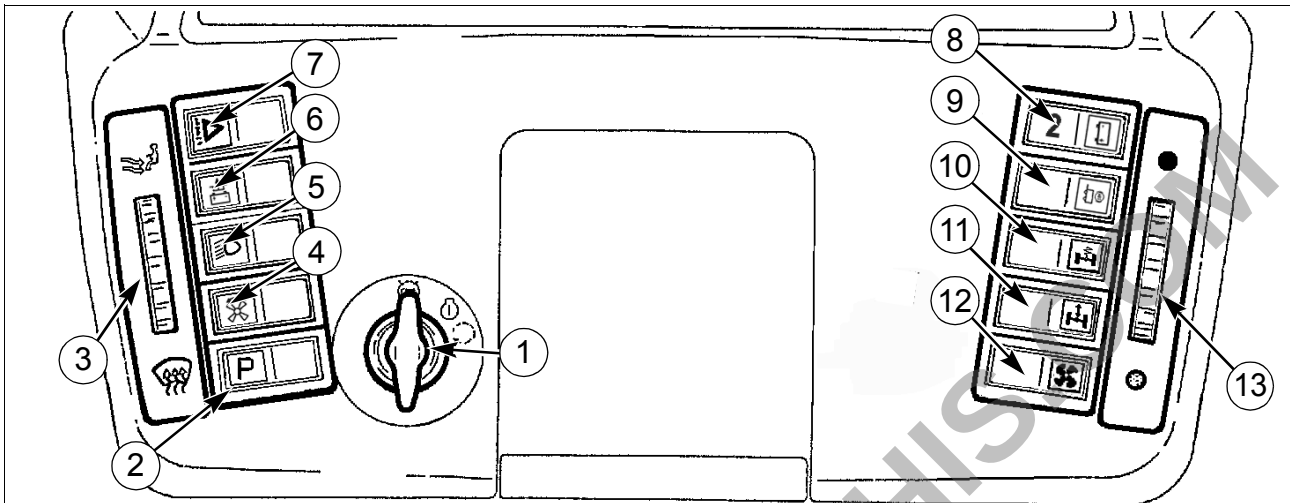


## CONTROL ELEMENTS

## Instrument panel



SS06G018

1. **START SWITCH** – the Start switch has the following positions:

⏻ **OFF position** - the ignition key is vertical. Everything is switched off and the ignition key can be removed. Parking light and hazard warning lights can be switched on without a key in the ignition. If the parking lights are switched on, a warning signal sounds for a few seconds to draw attention to that fact.

⌚ **ON position** - from the OFF position, turn the key clockwise to the next setting. The telltales for oil pressure, battery charge, applied handbrake and all-wheel drive engagement light up on the instrument panel. In addition, the instrument cluster displays the correct values.

⌚ **START setting** - from the ON position, continue turning the key clockwise to the next setting. Turn the starter key into its Start position. As soon as the engine starts, release the key. The ignition returns to its ON position automatically. The engine is switched off by turning the ignition key from its ON to its OFF position.

2. **BUTTON FOR PARK LOCK** (See page 2 - 51)
3. **ACTUATOR WHEEL FOR HEATING AIR DISTRIBUTION (FOOTWELL/WINDSCREEN)** (See page 2 - 63)
4. **FAN REVERSAL** (if fitted) – Fan reversal mode helps to blow the cooler clear. Press button to activate fan reversal mode. After 30 seconds, the system automatically switches from fan reversal mode back into normal mode. This fan reversal function can be incorporated in the HTS field end management programming (only possible at engine speeds of less than 1800 rpm).
5. **SWITCH FOR TRACTOR LIGHTING** – Three-stage toggle switch to turn the lights on and off. Parking light for marker lights and tail lights with switch in centre position.
6. **BATTERY ACTIVATION SWITCH** (if fitted) - See page 2 - 44
7. **HAZARD WARNING INDICATOR SWITCH** - Two-stage rocker switch. This switch switches on all 4 indicator lights simultaneously in order to indicate a hazard. To switch on the lights, press the rocker switch on the side with the symbol. The lamp in the switch, indicator telltales and the first and second trailer indicator telltales on the instrument panel will light up.
8. **TELLTALE FOR SECOND ALTERNATOR** (if fitted).  
A continuous light indicates that the 2nd alternator is not charging.
9. **ABS TELLTALE** (if fitted).
10. **BUTTON FOR TERRAGLIDE** (if fitted) - For activation of the height control.
11. **BUTTON FOR TERRAGLIDE** (if fitted) - For adjusting the spring travel (up/down)
12. **HEATER BLOWER SWITCH** (See page 2 - 63)
13. **ACTUATOR WHEEL FOR HEATER TEMPERATURE CONTROL (COLD/HOT)** (See page 2 - 63)

## REAR PTO

General details on your tractor's PTO can be found under the Technical Information section in this manual.

When using PTO driven equipment which involves a three point extension, ensure that both lift rods are set according to the OPERATING INSTRUCTIONS ISSUED BY THE EQUIPMENT MANUFACTURER.



### ATTENTION



*This tractor is fitted with a PTO operating at four speeds, 540, 540E 1000 or 1000E rpm. Ensure that all equipment is designed to run at the tractor's PTO speeds. Do not exceed the rpm recommended for the attached equipment. When using the PTO set the adjustable drawbar (if fitted) to the middle setting. Do not use the 540 and 540E PTO for equipment which requires more than 80 HP (59 KW) from the PTO.*

*Only carry out installation, maintenance and repairs of the PTO-driven equipment if the engine is switched off. Wait until the PTO has come to a complete standstill.*

## Operating the rear PTO

When operating in PTO mode, the set PTO rpm is kept constant whereas the driving speed can vary.

The rolling distance is extended when in PTO mode. The higher the rpm or speed, the longer the rolling distance.

Two conditions need to be met when operating in PTO mode:

1. Engine speed >1,100 rpm
2. PTO shift lever (1000/540) displaced

The speed of the PTO is controlled using the hand throttle. The PTO coupling can be switched ON and OFF using the key switch on the right-hand control panel or by using the external buttons on the mudguard (if fitted). There are four regulating notches available which can be activated using control levers 1000/540 and ECO/N.

**NOTE:** When using PTO-driven mounted implements, lift limitation should always be used, See page 3 - 25.

**IMPORTANT:** When oil temperature level is low, pressure build up is slower which can lead to a delayed start-up of the equipment. Only switch on devices which have a high starting moment when the transmission oil is warm.

## LUBRICATION/MAINTENANCE CHART

Maintenance after 250, 750 etc. hours      Operating hours  
 Inspection at 500, 1,000, etc.      Operating hours (at least once a year)  
 Inspection every 1,000      operating hours (at least every 2 years)

| Operating hours                                                                                              | daily | as required | 250                                                     | 500 | 750 | 1000 | 1250 | 1500 | 1750 | 2000 |
|--------------------------------------------------------------------------------------------------------------|-------|-------------|---------------------------------------------------------|-----|-----|------|------|------|------|------|
| <b>ENGINE</b>                                                                                                |       |             |                                                         |     |     |      |      |      |      |      |
| Check the engine oil level                                                                                   |       |             |                                                         |     |     |      |      |      |      |      |
| Change engine oil (at least once yearly)                                                                     |       |             |                                                         |     |     |      |      |      |      |      |
| Oil filter change (at least once yearly)                                                                     |       |             |                                                         |     |     |      |      |      |      |      |
| Drain fuel filter                                                                                            |       |             | weekly or every 50 hours                                |     |     |      |      |      |      |      |
| Change fuel filter cartridge(s)                                                                              |       |             |                                                         |     |     |      |      |      |      |      |
| Check hose connections of dry air filter                                                                     |       |             |                                                         |     |     |      |      |      |      |      |
| Check tappet clearance and/or adjust                                                                         |       |             |                                                         |     |     |      |      |      |      |      |
| Change dry air filter cartridge (at least once yearly)                                                       |       |             |                                                         |     |     |      |      |      |      |      |
| Clean dry air filter                                                                                         |       |             | If the telltale light on the instrument panel lights up |     |     |      |      |      |      |      |
| Change the safety cartridge in the dry air filter                                                            |       |             |                                                         |     |     |      |      |      |      |      |
| Change coolant                                                                                               |       |             |                                                         |     |     |      |      |      |      |      |
| Clean radiator grille, radiator, capacitor, oil cooler                                                       |       |             |                                                         |     |     |      |      |      |      |      |
| Check the status and tension of all V belts                                                                  |       |             |                                                         |     |     |      |      |      |      |      |
| Front PTO shaft oil change (after approx. 20 operating hours, then every 100 operating hours or once yearly) |       |             |                                                         |     |     |      |      |      |      |      |
| <b>ENGINE</b>                                                                                                |       |             |                                                         |     |     |      |      |      |      |      |
| Check oil level of gearbox, top up if necessary (sight glass)                                                |       |             |                                                         |     |     |      |      |      |      |      |
| Transmission oil change                                                                                      |       |             |                                                         |     |     |      |      |      |      |      |
| Change inlet filter                                                                                          |       |             |                                                         |     |     |      |      |      |      |      |
| Change pressure filter                                                                                       |       |             |                                                         |     |     |      |      |      |      |      |
| Check oil level in the planetary gearbox                                                                     |       |             |                                                         |     |     |      |      |      |      |      |
| Change oil in planetary gearbox                                                                              |       |             |                                                         |     |     |      |      |      |      |      |
| Clean air vent                                                                                               |       |             |                                                         |     |     |      |      |      |      |      |
| <b>HYDRAULIC SYSTEM</b>                                                                                      |       |             |                                                         |     |     |      |      |      |      |      |
| Check oil level                                                                                              |       |             |                                                         |     |     |      |      |      |      |      |
| Change oil                                                                                                   |       |             |                                                         |     |     |      |      |      |      |      |
| Clean inlet filter                                                                                           |       |             |                                                         |     |     |      |      |      |      |      |
| Change pressure filter                                                                                       |       |             |                                                         |     |     |      |      |      |      |      |
| Grease power lift linkage                                                                                    |       |             |                                                         |     |     |      |      |      |      |      |

## ENGINE

### General information

6-cylinder four-stroke „Common Rail“ diesel engine

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## SECTION 2

### CONTROLS, INSTRUMENTS AND OPERATION

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**NOTE**

IN THIS MANUAL, THIS WARNING SYMBOL INDICATES IMPORTANT SAFETY INFORMATION. WHEREVER THIS SYMBOL APPEARS, THE INFORMATION FOLLOWING IT SHOULD BE READ CAREFULLY TO ENSURE THAT THE USER IS AWARE OF THE POTENTIAL RISK OF INJURY OR DEATH.

The safety labels on this machine use the terms '**Danger**', '**Warning**' or '**Caution**'. These terms are defined as follows:

- **DANGER** : This indicates an imminently hazardous situation which, if steps are not taken to avoid it, will lead to death or serious injury. The colour assigned to the term 'Danger' is RED.
- **WARNING** : This term indicates a potentially hazardous situation which, if steps are not taken to avoid it, can lead to serious injury. The colour assigned to the term 'Warning' is ORANGE.
- **CAUTION** : This term indicates a potentially hazardous situation which, if steps are not taken to avoid it, can lead to minor or moderate injuries. This term is also used to warn the user of unsafe practices. The colour assigned to the term 'Caution' is YELLOW.



IMPROPER OPERATION OF THIS MACHINE CAN LEAD TO INJURY OR DEATH. BEFORE USING THIS MACHINE, ENSURE THAT EVERY DRIVER FULFILS THE FOLLOWING REQUIREMENTS:

- The driver must be trained in how to use the machine safely and correctly.
- He must have read and understood the manual(s) regarding the machine.
- He must have read and understood ALL safety labels on the vehicle.
- He must ensure that no one is standing in the working area.
- Before using the machine in a working area, he must have trained and practised how to safely use the machine's operating controls in a safe, open practice area.

It is your responsibility to comply with the applicable regulations and guidelines and to follow the instructions given by CNH Österreich GmbH on working with and maintaining the machine.

## Electromagnetic compatibility (EMC)

This tractor fulfils EC Directives governing electromagnetic radiation.

However, interference can also be caused by auxiliary devices, which may not correspond to the standard regulations.

Because electromagnetic interference can seriously affect the function of the vehicle and/or give rise to dangerous situations, you **MUST** observe the following instructions:

- Ensure that all equipment from third-party manufacturers fitted on the tractor carries the CE mark.



- The maximum output level of equipment that emits radiation (radios, telephones, etc.) must not exceed the limits prescribed in the country in which you are operating the tractor.
- The electromagnetic field created by auxiliary equipment must never exceed 24V/m in proximity to electronic components.

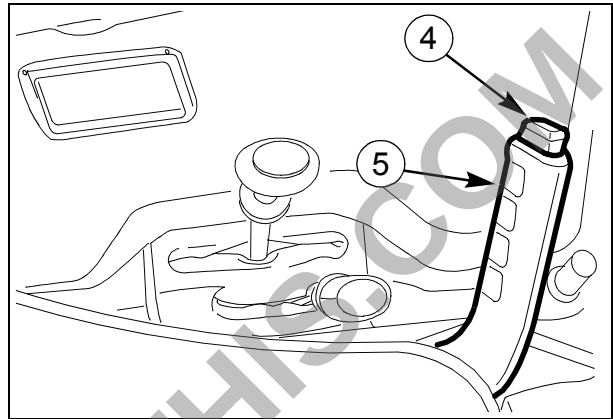
Disregard of these regulations immediately invalidates the New Holland warranty.

**Remote actuation for automatic trailer hitch (if fitted)**

Using the remote operation function, the automatic trailer hitch can be clamped/released from the driver's seat.

To engage or disengage, press the button (4), hold it down and pull the lever (5) towards the middle of the vehicle.

**NOTE:** *The coupling pin can only be released if no traction is applied to it.*



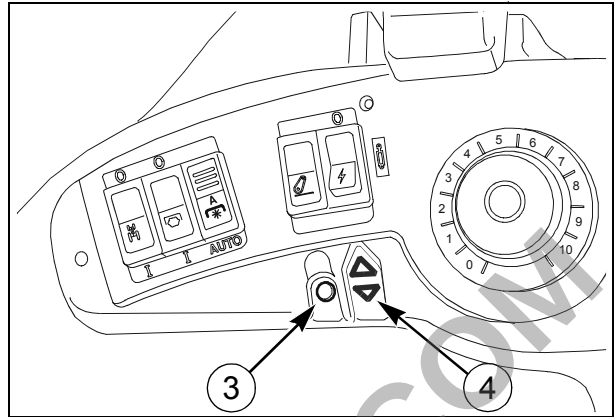
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### 3. TELLTALE DIAGNOSIS INDICATOR - RED

This telltale lights up as soon as the engine has been started up. The telltale has two functions:

- A. After the engine has been started up and battery charge has been checked, the telltale lights up. The telltale will go out when the EDC system is actuated. If the buttons for the rear/power lift actuation or the stop button are actuated in active EDC mode, the system will lock and the telltale will light up again.
- B. If the diagnostics system detects a fault in the EDC system, the telltale will start to blink rhythmically in reference to the fault detected.

**NOTE:** Consult a qualified mechanic as soon as possible, even if there are no obvious defects in the running of the EDC system.



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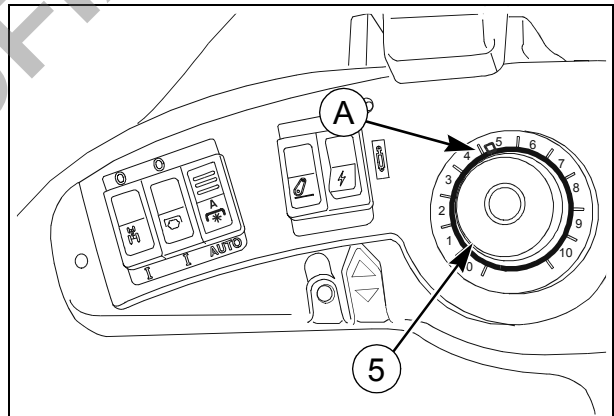
### 4. TELLTALES - GREEN Raise - Lower-

These telltales indicate the Raise and Lower functions. In traction control operating mode, the control function can be checked (number of control pulses).

### 5. NOMINAL VALUE ADJUSTMENT -

The nominal value adjustment wheel is used to set precisely the required implement depth, or in position control the height required for the implement. Maximum lift is achieved when the nominal value wheel is turned to the 10 position. The lower limit of the power lift is achieved in position 1. The power lift is in floating position between positions 0 and 1.

The adjusting ring (A) can be used to make a basis setting, which can be easily called back up once the nominal value wheel has been turned (detent).



SC06J011

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## ELECTRICAL SYSTEM

### BATTERY



#### ATTENTION



*Improper connection of auxiliary batteries or a charger unit can cause the battery to explode and/or cause damage to components in the electrical system. Connect positive to positive and negative to negative. If battery acid escapes, it can cause corrosive burns and even blinding. Toxic if swallowed.*

---

Maintain batteries in good operational condition:

- Keep batteries clean and dry and keep vents free.
- Ensure that the battery is securely attached to the vehicle. DO NOT overtighten clamp connections.
- If required, top up with distilled water to ensure that the battery plates are always below water level. Before topping up with water, check each cell with an acid syringe. The specific gravity of each cell must be 1.28 g.

**NOTE:** At low temperatures of approx. minus 18°C and at a specific gravity of 1.175 g, batteries freeze up.

Keep the batteries at full charge. Charge at the lowest charge speed setting to prevent the formation of gas bubbles. If a battery fails to hold its charge, a new battery should be fitted, complying with the values quoted in the Technical Data section.



#### ATTENTION



*Do not charge a frozen battery. It may explode and cause serious injury.*

---

### Batteries not in use

If the tractor is not in use, the batteries must be re-charged every six weeks so that the specific gravity is maintained at a minimum of 1.28g. Stored batteries not being used slowly discharge. At low outside temperatures, a discharged battery can freeze, causing damage to the battery and the tractor.

**IMPORTANT:** Dispose of batteries in accordance with local regulations. Proceed in an environmentally aware manner.

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