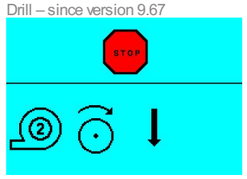
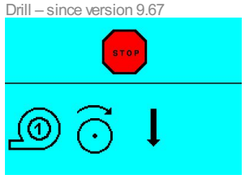
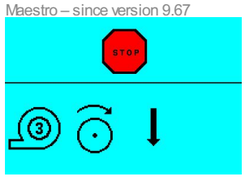
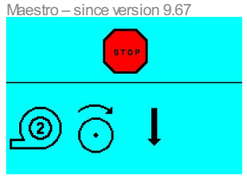
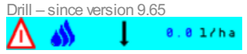
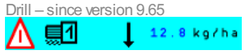
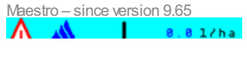
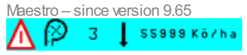
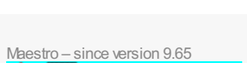
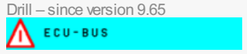
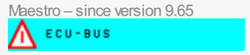
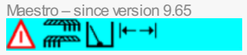
Error codes: Overview

Terms of use

Note: The assistance operations given in the present application may only be carried out observing the safety notes in the operating instructions of the corresponding machine. Compensation claims for damages due to non-observance of the operating instructions are excluded.

Machine assignment	Type	Error text	Screenshots Software version	Repetition time	Confirmation	Occurrence	Instruction for action	Audible warning in case of occurrence
(1-1) estro (1-2)	W	Fan speed x fallen short of	Drill – since version 9.65  Maestro – since version 9.65 		not possible, until error has been rectified	Fan speed too low. Limiting values for fan speed, which leads to an error message, can be configured. Compliance with the set values is not possible.	• Increase the fan speed. • Check sensor function, pulse counting in the diagnostics. • Sensor position too close, to far away, check. • Check the limiting values in the machine configuration. • Check the adjusted pulses.	single audible signal
(2-1) estro (2-2)	A	Fan speed x fallen short of	Drill – since version 9.67  Drill – since version 9.67  Drill – Versions 9.65 and 9.66  Maestro – since version 9.67  Maestro – since version 9.67  Maestro – Versions 9.65 and 9.66 	15 sec.	Not necessary! Goes away automatically after 5 sec. The associated warning will remain .	Fan speed too low. Limiting values for fan speed, which leads to an error message, can be configured. Compliance with the set values is not possible.	• Increase the fan speed. • Check sensor function, pulse counting in the diagnostics. • Sensor position too close, to far away, check. • Check the limiting values in the machine configuration. • Check the adjusted pulses.	3 successive audible signals
(3-1) estro (3-2)	W	Fan speed x exceeded	Drill – since version 9.65  Maestro – since version 9.65 		not possible, until error has been rectified	Limiting values, which lead to the error message, can be configured. Compliance with the set values is not possible. (no subsequent alarm)	• Reduce the fan speed. • Check sensor function, pulse counting in the diagnostics. • Sensor position too close, to far away, check. • Check the limiting values in the machine configuration (max. 6000 rpm). • Check the adjusted pulses.	single audible signal
(4-1)	W	Nominal values cannot be met	Drill – since version 9.65  Drill – since version 9.65  Maestro – since version 9.65  Maestro – since version 9.65 		not possible, until error has been	Occurs as soon as the quantity cannot be met. Applies for row computers and metering equipment	• Applications outside the control range. Check the adjusted nominal value. • Fertiliser/seed metering unit: ◦ Does output of metering rotor match the travel speed? ◦ Repeat the calibration. • Single grain metering unit: ◦ Has the correct metering disc been chosen? ◦ Check the fruit parameter (e.g.grains per revolution)	single audible signal for

estro (4-2)		cannot be met (too low)	Maestro – since version 9.65 		error has been rectified	Applies for row computers and metering equipment (seed, solid and liquid fertiliser).	• Check the downpipe sensor function (dirty?) • Check whether a sufficient amount of seed is available (On SOD machines) • Metering of liquid fertiliser: ◦ Does the nozzle plate match output and travel speed? ◦ Adapt the travel speed. ◦ Choose nozzle plate to match output and travel speed. ◦ Check for leakages and clogging ◦ Check calibration factor.	each row computer affected
(5-1) estro (5-2)	W	Nominal values cannot be met (too high)	Drill – since version 9.65  Maestro – since version 9.65  Maestro – since version 9.65 	Drill – since version 9.65  Maestro – since version 9.65 	not possible, until error has been rectified	Occurs as soon as the quantity cannot be met. Applies for row computers and metering equipment (seed, solid and liquid fertiliser).	• Applications outside the control range. Check the adjusted nominal value. • Fertiliser/seed metering unit: ◦ Does the metering rotor match the output quantity? ◦ Repeat the calibration. • Single grain metering unit: ◦ Has the correct metering disc been chosen? ◦ Check the fruit parameter settings (e.g.grains per revolution) • Metering of liquid fertiliser: ◦ Check the calibration factor.	single audible signal for each row computer affected
estro (6-2)	W	Vacuum too low	Maestro – since version 9.65 		not possible, until error has been rectified	The set vacuum cannot be complied with. Limiting value depending on fruit parameter	• Correct actual value in comparison to nominal value in accordance with fruit parameter? • Increase the fan speed. • With the vacuum display unchanged, check the function of the sensor. • Check the machine configuration: Vacuum sensor yes/no?	single audible signal
estro (7-2)	W	Vacuum too high	Maestro – since version 9.65		not possible, until error has been rectified	The set vacuum cannot be complied with. Limiting value depending on fruit parameter.	• Correct actual value in comparison to nominal value in accordance with fruit parameter? • Exception: If higher vacuum is required, adapt the warning limit. • Reduce the fan speed. • With the vacuum display unchanged, check the function of the sensor. • Check the machine configuration: Vacuum sensor yes/no?	single audible signal
(8-1) estro (8-2)	W	ISOBUS error	Drill – since version 9.65 	Maestro – since version 9.65 	not possible, until error has been rectified	Communication between ISOBUS system and master job computers affected.	• Check the plug-and-socket connections between tractor and machine. • If the error occurs again, consult the dealer.	single audible signal
(9-1) estro (9-2)	W	ECU-BUS error	Drill – since version 9.65 	Maestro – since version 9.65 	not possible, until error has been rectified	Communication between master-computer "CAN-OUT" and the connected components is impaired.	• Check the plug-and-socket connections between machine computer output and the connected components. • If the error occurs again, consult the dealer.	continuous lined-up audible signals
estro (10-2)	W	ECU2-BUS error	Maestro – since version 9.65 		not possible, until error has been rectified	Communication between slave-computer "CAN-OUT" and the connected components is impaired.	• For drills: ◦ If no device is connected to the OUT of the last Slave computer (blind cap on OUT), then the setting in the configuration "Device on ECU2-Bus" must be set to "no". ◦ If a device is connected to the OUT of the last Slave computer (cable on OUT), then the setting in the configuration "Device on ECU2-Bus" must be set to "yes". ◦ Check the plug-and-socket connections between the 2nd machine computer output and the connected components. • For Maestro: ◦ Check the plug-and-socket connections between the 2nd machine computer output and the connected components. ◦ If the error occurs again, consult the dealer.	continuous lined-up audible signals
estro (11-2)	W	End position not reached	Maestro – since version 9.65 		not possible, until error has been rectified	The valve for the half-width control has not reached end position.	• Check the functions of engine and sensor in the diagnostics. • Check the injector/Venturi area mechanically (e.g. light moving, blocked).	single audible signal
			Maestro – since version 9.65		not possible, until		• Check the functions of engine and sensor in the diagnostics	single

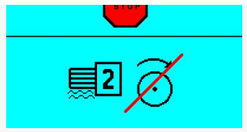
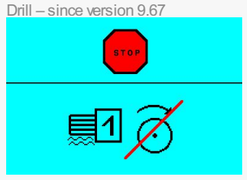
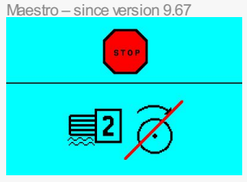
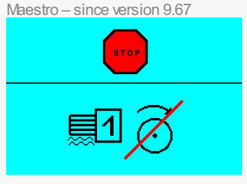
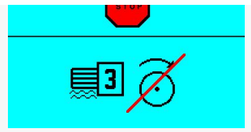
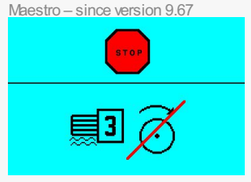
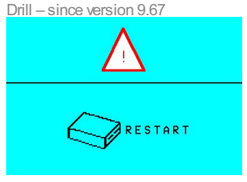
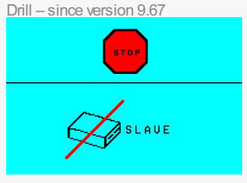
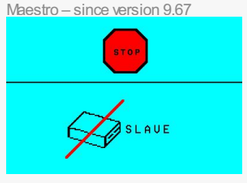
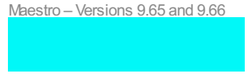
estro (12-2)	W	Middle not reached		not possible, until error has been rectified	The valve for the half-width control has not reached middle position.	• Check the functions of engine and sensor in the diagnostics. • Check the injector/Venturi area mechanically (e.g. light moving, blocked).	single audible signal

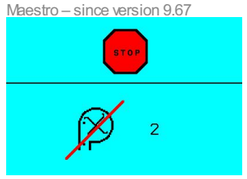
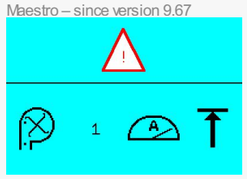
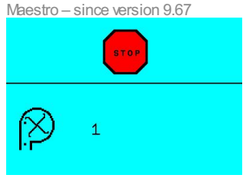
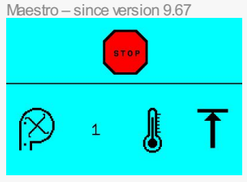
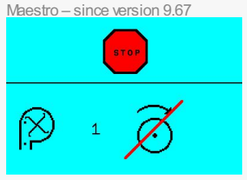
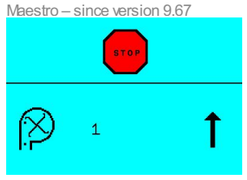
(13-1)	W	Seed/fertiliser flow in the tram line	Drill – since version 9.65	not possible, until error has been rectified	"Agtron", "DickeyJ" or "HORSCH" has been selected as seed/fertiliser flow monitoring system.
					Seed/fertiliser flow is indicated in the seed hoses of the tram line during operation.
						• Is the function of the tram line valve ensured?
						• Is the assignment of the sensor to the tram line valve correct?
						• For the machine type DrilleRowControl:
						  ◦ Was the flap fully closed?
						  ◦ Is the bypass comb straight and firmly engaged?
							single audible signal

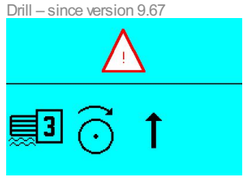
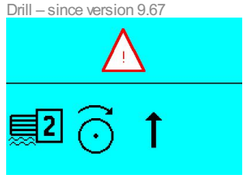
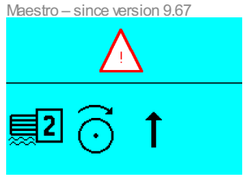
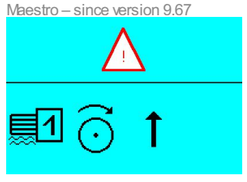
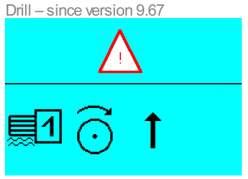
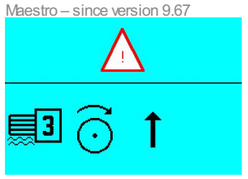
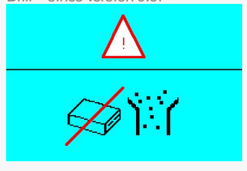
(14-1)	W	No seed/fertiliser flow	Drill – since version 9.65	not possible, until error has been rectified	"Agtron" has been selected as seed/fertiliser flow monitoring system. No seed/fertiliser flow indicated during working position.	• Check the seed/fertiliser hoses for blockage. • Check the seed/fertiliser flow system as described in the operating instructions.	single audible signal
(15-1) estro (15-2)	W	Seed/fertiliser flow in the tram line	Maestro – since version 9.65	not possible, until error has been rectified	"Dickey John" has been selected as seed/fertiliser flow monitoring system. Seed/fertiliser flow is indicated in the tram line.	• Is the function of the tram line valve ensured? • Is the assignment of the sensor to the tram line valve correct?	single audible signal
(16-1) estro (16-2)	W	No seed/fertiliser flow	Maestro – since version 9.65	not possible, until error has been rectified	"Dickey John" has been selected as seed/fertiliser flow monitoring system. In working position no seed/fertiliser flow is indicated in the corresponding circle for the affected sensors.	• Check the seed/fertiliser hoses for blockage. • Check the seed/fertiliser flow system as described in the operating instructions.	single audible signal

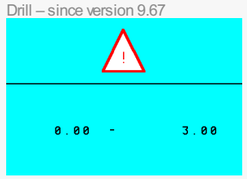
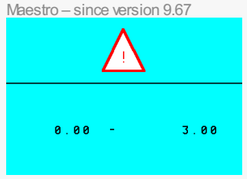
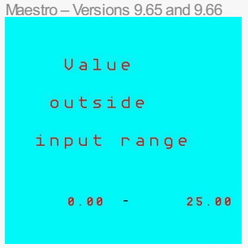
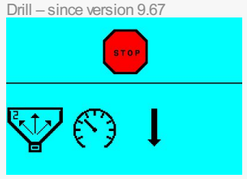
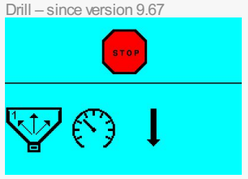
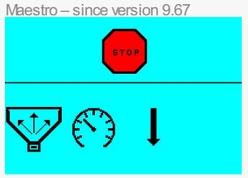
(17-1)
estro (17-2)
	W	Seed/fertiliser flow:
		Communication error (yellow)
			Maestro – since version 9.65	not possible, until error has been rectified	"Dickey John" has been selected as seed/fertiliser flow monitoring system.
					The communication between two successive sensors is interrupted from one side of the circuit (Loop) to the displayed sensors.
					System is still fully functional.
						• Check the connecting cables of the displayed sensors.
						• If the defective sensors are bypassed, then all sensors will be re-addressed (even without restarting).
						• Example:
						  ◦ 20 sensors per loop
						  ◦ Terminal indicates no connection between sensors 5 and 8 => Error between Out 5 and IN 8 => Sensor 5 and sensor 8 defective
						  ◦ Sensor 4 will be connected with sensor 6. Sensor 7 will be connected with sensor 9.
						  ◦ Since all sensors are now without error, all sensors will be re-addressed.
						  ◦ Sensor 6 (sticker) is now sensor 5 (Terminal)
						  ◦ Sensor 7 (sticker) is now sensor 6 (Terminal)
						  ◦ Sensor 9 (sticker) is now sensor 7 (Terminal)
						  ◦ Sensor 10 (sticker) is now sensor 8 (Terminal)
						  ◦ etc.
						
						  ◦ Since two sensors were removed, sensors 19 an 20 are now missing.
						  ◦ To be able to continue working without error message, the number of the sensors in the terminal on 18 must be changed for the loop concerned.
							single audible signal

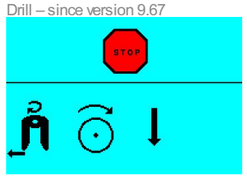
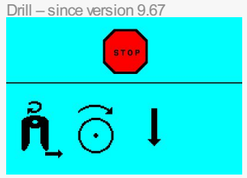
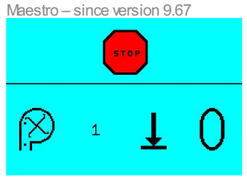
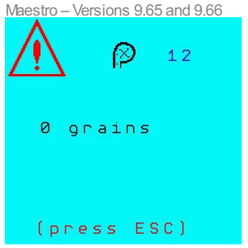
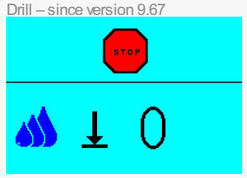
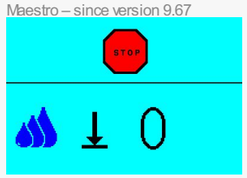
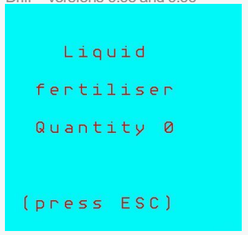
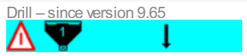
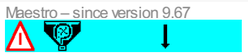
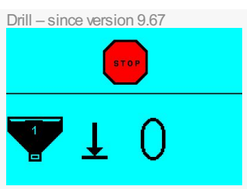
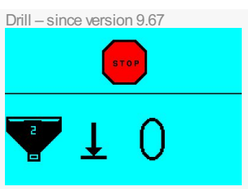
(18-1) estro (18-2)	W	Seed/fertiliser flow: Communication error (red)	Maestro – since version 9.65	not possible, until error has been rectified	"Dickey John" has been selected as seed-fertiliser flow monitoring system. The communication between the sensors is interrupted from two sides in the circle (Loop). Correct seed/fertiliser flow monitoring cannot be ensured.		single audible signal
estro (19-2)	W	Row computer over-current (current consumption too high)	Maestro – since version 9.65	not possible, until error has been rectified	Current consumption for the displayed row too high. Pre-set limiting value: 4 A per row computer.	• Check the single grain metering unit for foreign objects, dirt, wear. • Insert an additional fitting disc (see operating manual)	single audible signal
estro (20-2)	W	Variation coefficient (VC) row computer (too high)	Maestro – since version 9.65	not possible, until error has been rectified	Variation coefficient (VC) too high. The VC is shown separately for each row computer. For the fruit parameters the limiting value can be adjusted. The pre-set value depends on the fruit type.	• Check the settings on the single grain metering unit. • Correct disc selection for seed. • Adapt the vacuum settings to the seed. • AirVac/AirSpeed metering unit: • Check the sealing lip. • Contamination of metering disc. • Joints or foreign objects in discharge area.	single audible signal
			Drill – since version 9.67				
			Drill – since version 9.67				

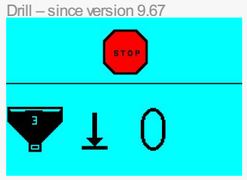
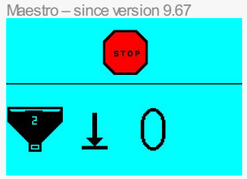
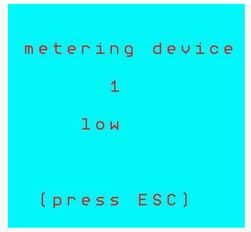
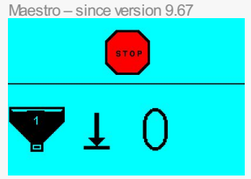
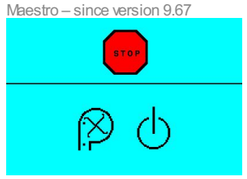
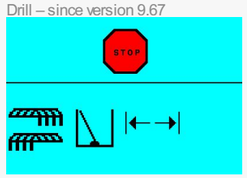
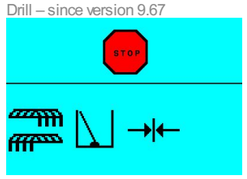
(21-1) estro (21-2)	**A**	Motor x stopped!	 Drill – since version 9.67  Maestro – since version 9.67  Maestro – since version 9.67 	 Drill – Versions 9.65 and 9.66  Maestro – since version 9.67  Maestro – Versions 9.65 and 9.66 	0 sec.	not possible, until error has been rectified	The gear motor for fertiliser/seed metering for the indicated hopper is stopped during work.	• No speed feedback from motor. • The specified minimum speed is not reached. • Check the size of the rotor. • Check engine function for diagnostics. • Check for cable breakage. • Plug-and-socket connection or motor defective.	3 successive audible signals
(22-1)	**A**	Restart during work	Drill – since version 9.67 	Drill – Versions 9.65 and 9.66 	0 sec.	Press ESC to confirm.	Restarting of terminal during a work process.	• Check the drilling function.	3 successive audible signals
(23-1) estro (23-2)	**A**	2. Machine computer failed	Drill – since version 9.67  Maestro – since version 9.67 	Drill – Versions 9.65 and 9.66  Maestro – Versions 9.65 and 9.66  Maestro – Versions 9.65 and 9.66 	60 sec.	Press ESC to confirm.	Interruption of connection to the displayed slave computer.	• Check the plug-and-socket connections. • In case of missing product/tower slaves: ◦ Restart Master JR after correcting the error (disconnect ISOBUS for 10 seconds and then reconnect). Product/tower slaves are only recognised again after restarting the master.	single audible signal

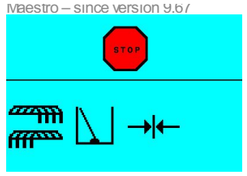
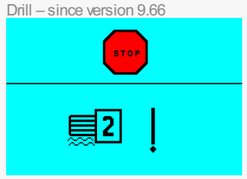
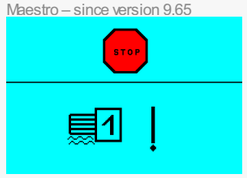
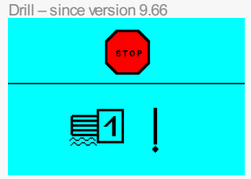
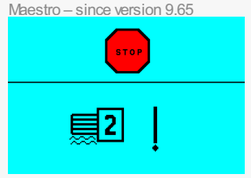
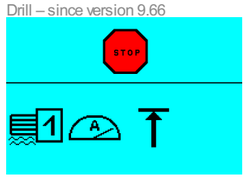
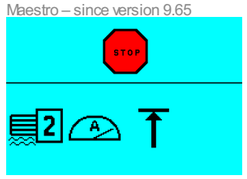
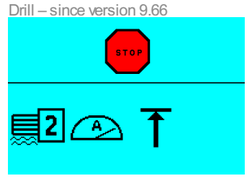
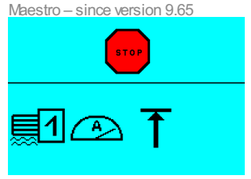
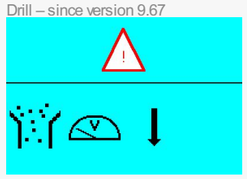
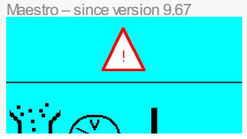
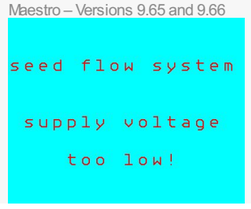
estro (24-2)	A	Row computer has failed	Maestro – since version 9.67 		10 sec.	Press ESC to confirm.	Connection to the indicated row computer interrupted. Frequently caused by missing power supply for the indicated row. However, it may also be caused by a electronics defect in the indicated row.	• Check the wiring of the faulty row and the row before.	3 successive audible signals
estro (25-2)	A	Row computer motor overloaded	Maestro – since version 9.67 	Maestro – Versions 9.65 and 9.66 	when drilling 60 sec., otherwise 60 sec.	Press ESC to confirm.	Drive motor in the indicated row reports too high current consumption (permanently higher than 5 ampere). Current consumption limited by engine speed reduction.	• Check the single grain metering unit for foreign objects, dirt, wear.	single audible signal
estro (26-2)	A	Row computer: Motor defective	Maestro – since version 9.67 	Maestro – Versions 9.65 and 9.66 	when drilling 60 sec., otherwise 60 sec.	Press ESC to confirm.	Drive motor in the indicated row reports "defect".	• Replace the motor.	3 successive audible signals
estro (27-2)	A	Row computer: Motor overheating	Maestro – since version 9.67 	Maestro – Versions 9.65 and 9.66 	when drilling 10 sec., otherwise 60 sec.	Press ESC to confirm.	Drive motor in the indicated row reports "too high temperature". Motor switches off.	• In case of repeated occurrence replace the motor.	3 successive audible signals
estro (28-2)	W	Row computer: electric voltage too low (supply voltage)	Maestro – since version 9.65 			not possible, until error has been rectified	The measured voltage on the drive motor of the indicated row is too low. This is frequently caused by a voltage drop in the system, e.g. - caused by a too high power consumption of the upstream drive motors or -by a faulty electric connection to the supply source	• Check power supply, plug-and-socket connections between machine computer and seed bar. • Installation kit connected to battery? • Extrapower (16 rows and more) connected?	single audible signal
estro (29-2)	A	Row computer: Metering unit blocked	Maestro – since version 9.67 	Maestro – Versions 9.65 and 9.66 		Press ESC to confirm.	Metering disc in the indicated row jammed could not b release by turning back.	• Check the single grain metering unit for foreign objects.	single audible signal
estro (30-2)	A	Overflow of grains (overflow alarm)	Maestro – since version 9.67 	Maestro – Versions 9.65 and 9.66 	0 sec.	Press ESC to confirm.	The overflow indicates, that far to many grains are metered. The display of this warning can be configured, depending on the type of fruit. Presetting: Warning message is only activated for certain crops (software version dependent). In 10.16, for example, the warning message is activated for "Sugar beet", "Sunflowers" and "Canola" and deactivated for all other crop types. For standard Maestro machine types (Maestro CC/SW/RC, the error is an alarm). For the new Maestros (X and V generation), the error is a warning.	• Seed on Demand (SOD)/ Main Tank Supply (MTS) Check fan speed. • Adapt the position of the infeed valve.	3 successive audible signals

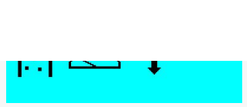
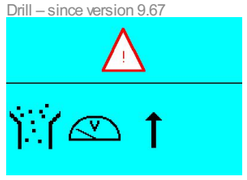
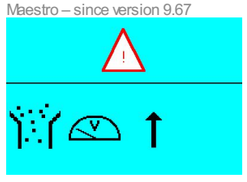
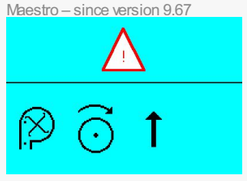
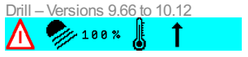
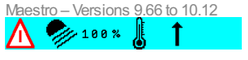
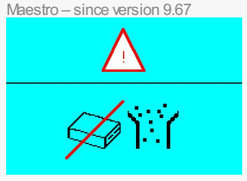
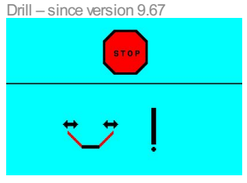
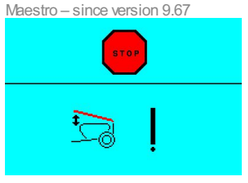
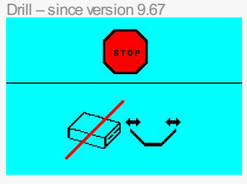
(31-1) estro (31-2)	**W**	Metering motor speed warning (speed too high)	Drill – since version 9.65 	Maestro – since version 9.65 		not possible, until error has been rectified	Speed of fertiliser / seed metering unit too high.	• Does the metering rotor match the output quantity? • Repeat the calibration. • Check speed range.	single audible signal
(32-1) estro (32-2)	**A**	Rotation speed too high	Drill – since version 9.67  Drill – since version 9.67  Maestro – since version 9.67  Maestro – since version 9.67 	Drill – since version 9.67  Drill – Versions 9.65 and 9.66  Maestro – since version 9.67  Maestro – Versions 9.65 and 9.66 	5 sec.	not possible, until error has been rectified	Fertiliser/seed metering unit: Maximum speed exceeded.	• Does the metering rotor match the output quantity? • Repeat the calibration. • Check speed range.	single audible signal
(33-1) estro (33-2)	**W**	Speed too low	Drill – since version 9.65 	Maestro – since version 9.65 		not possible, until error has been rectified	Fertiliser/seed metering unit: Minimum speed fallen short of.	• Does the metering rotor match the output quantity? • Repeat the calibration. Check speed range.	single audible signal
(34-1) estro (34-2)	**W**	Total current consumption near maximum	Drill – since version 9.65 	Maestro – since version 9.65 		not possible, until error has been rectified	Warning limits: 45 A single computer system 90 A two computer system Value must be exceeded for 3 seconds without interruption, before the warning is displayed.	• Check the current consumption of the individual motors. • See operating instructions.	single audible signal
(35-1) estro (35-2)	**A**	Seed/fertiliser flow: Module failed	Drill – since version 9.67  Drill – since version 9.67 	Drill – Versions 9.65 and 9.66  Drill – Versions 9.65 and 9.66 	If module fails again after activation.	Press ESC to confirm	"Dickey John" has been selected as seed/fertiliser flow monitoring system. The connection to the seed/fertiliser flow modulel is interrupted.	• Check the plug-and-socket connection and the wiring to the module. • Coloured status LED. • Diagnostics seed/fertiliser flow system according to operating instructions.	3 successive audible signals

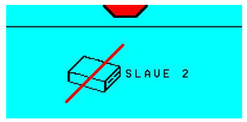
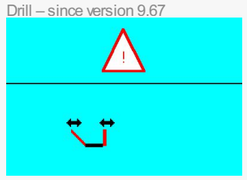
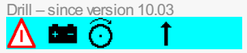
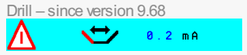
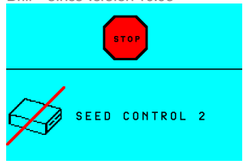
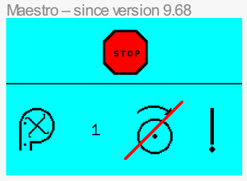
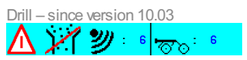
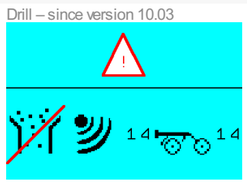
(36-1) estro (36-2)	**A**	Sporadic interruption of work		Maestro – Versions 9.65 and 9.66  Maestro – Versions 9.65 and 9.66 		Press ESC to confirm.	Occurs, when the work signal at a speed of > 3 km/h,is interrupted longer than 3 seconds.	• Check floating position. • Check work switch in diagnostics mask.		single audible signal
(37-1) estro (37-2)	**A**	Value outside input range	Drill – since version 9.67  Maestro – since version 9.67 	Drill – Versions 9.65 and 9.66  Maestro – Versions 9.65 and 9.66 	After another input outside the input range.	not necessary	Occurs as soon as the chosen input range is not permitted. The impermissibly entered value will not be accepted.	• Enter a permissible value.		3 successive audible signals
(38-1) estro (38-2)	**W**	Pressure loss in the indicated tank	Drill – since version 9.65 	Maestro – since version 9.65 		not possible, until error has been rectified	Always takes place when a pressure loss/switching signal is available (depending on the fan).	• Check the tank for leaks		single audible signal
(39-1) estro (39-2)	**A**	Pressure loss in the indicated tank	Drill – since version 9.67  Drill – Versions 9.65 and 9.66  Maestro – Versions 9.65 and 9.66 	Drill – since version 9.67  Maestro – since version 9.67 	10 sec.	Press ESC to confirm.	Only occurs in work position, when the pressure loss/switching signal is applied for >5 seconds without interruption.	• Check the tank for leaks.		3 successive audible signals

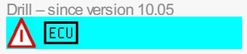
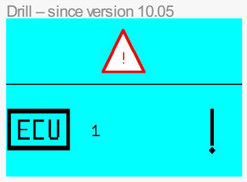
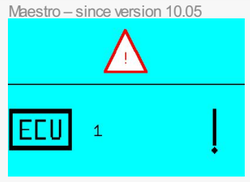
(40-1)	**A**	Rotary speed of left hand rotary cross harrow too low	Drill – since version 9.67 	Drill – Versions 9.65 and 9.66 	10 sec.	Press ESC to confirm.	Monitoring the rotary cross harrows: Rotation speed left	• Check the function of the rotary cross harrow. • Check pulse counting in the diagnostics. • Check the rotary speed limits/pulses in the configuration.	3 successive audible signals
(41-1)	**A**	Rotary speed of right hand rotary cross harrow too low	Drill – since version 9.67 	Drill – Versions 9.65 and 9.66 	10 sec.	Press ESC to confirm.	Monitoring the rotary cross harrows: Rotation speed right	• Check the function of the rotary cross harrow. • Check pulse counting in the diagnostics. • Check the rotary speed limits/pulses in the configuration.	3 successive audible signals
estro (42-2)	**A**	Zero grain alarm	Maestro – since version 9.67 	Maestro – Versions 9.65 and 9.66 	3 sec.	Press ESC to confirm.	Occurs when the downpipe sensor does not indicate any grains. (When starting after 4 sec., and during work after 3 sec.)	• Check the Seed on Demand (SOD) system, hopper contents, downpipe sensor and single grain metering unit. • Check vacuum value/vacuum hose assembly. • AirVac/AirSpeed metering unit: ◦ Check the feed gate on the metering unit. ◦ Check the Main Tank Supply (MTS) System, hopper contents, downpipe sensor and single grain metering unit. ◦ Check the vacuum value/vacuum hose assembly (AirVac) or the overpressure value/overpressure hose assembly (AirSpeed)	single audible signal
(43-1) estro (43-2)	**A**	Liquid fertiliser zero	Drill – since version 9.67  Maestro – since version 9.67 	Drill – since version 9.67  Maestro – Versions 9.65 and 9.66 	3 sec.	Press ESC to confirm.	Quantity "0", if the flow meter does not measure a pulse within 3 seconds.	• Check the hopper contents. • Check the tap position. • Check the system for leaks or blockage. • Check pulse counting in the diagnostics.	single audible signal
(44-1) estro (44-2)	**W**	Filling level low (hopper empty)	Drill – since version 9.65  Maestro – Versions 9.65 and 9.66 	Maestro – since version 9.67 		not possible, until error has been rectified	Filling level message as soon as the tank filling level sensor is unable to indicate any seed/fertiliser.	• Serves the purpose of information.	single audible signal
			Drill – since version 9.67 	Drill – since version 9.67  Drill – Versions 9.65 and 9.66					

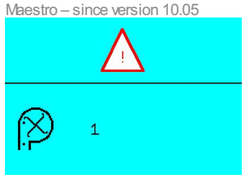
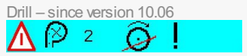
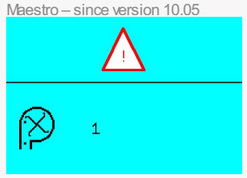
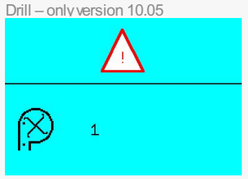
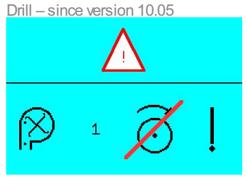
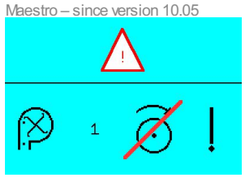
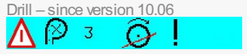
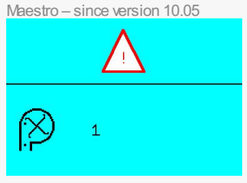
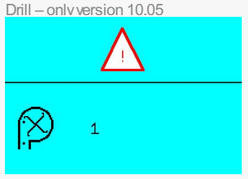
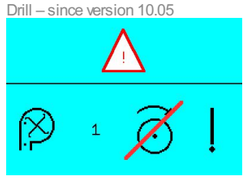
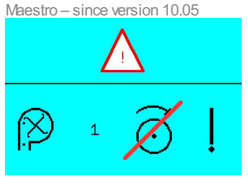
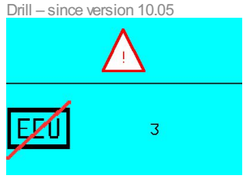
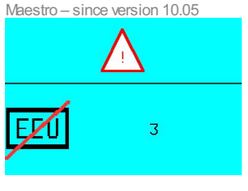
(45-1) estro (45-2)	**A**	Seed bridging alarm	Drill – since version 9.67  Maestro – since version 9.67  Maestro – Versions 9.65 and 9.66 	Maestro – since version 9.67  Maestro – since version 9.67 	Repetition after changing the working position.	Press ESC to confirm.	Metering unit for the displayed hopper is empty.	• Filling the hopper. • Eliminate any fertiliser/seed bridging. • Check the sensor.		3 successive audible signals
estro (47-2)	**W**	Row motor switched on	Maestro – since version 9.67 	Maestro – Versions 9.65 and 9.66 		not possible, until error has been rectified	One of the row drives is manually switched on.	• Press the button to switch off the row motor.		single audible signal
(49-1) estro (49-2)	**A**	Half-width flap: End position not reached	Drill – since version 9.67 	Drill – Versions 9.65 and 9.66 			The valve for the half-width control has not reached the end position.	• "Linak" has been selected as configuration for half-width control: ◦ Check the functions of engine and sensor in the diagnostics. ◦ Check injector/venturi area mechanically (e.g. easy movement, blocked) • "Linak 2016" has been selected as configuration for half-width control (from SW 10.01): ◦ No sensor available. ◦ The position of the half-width flap is measured internally in the motor. ◦ Verify the predefined values for left, middle, right. ◦ Check the motor function in the diagnostics. ◦ Check the injector/venturi area mechanically (e.g. light moving, blocked)	3 successive audible signals
(50-1) estro (50-2)	**A**	Half-width flap: Middle not reached	Drill – since version 9.67  Maestro – since version 9.67	Drill – Versions 9.65 and 9.66  Maestro – Versions 9.65 and 9.66 			The valve for the half-width control has not reached the end position.	• "Linak" has been selected as configuration for half-width control: ◦ Check the functions of engine and sensor in the diagnostics. ◦ Check injector/venturi area mechanically (e.g. easy movement, blocked) • "Linak 2016" has been selected as configuration for half-width control (from SW 10.01): ◦ No sensor available. ◦ The position of the half-width flap is measured internally in	3 successive audible signals

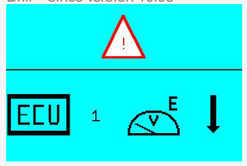
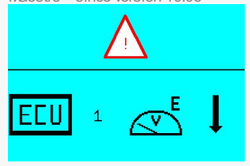
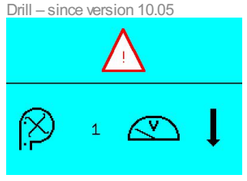
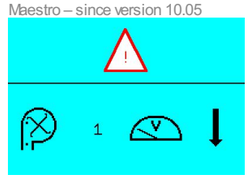
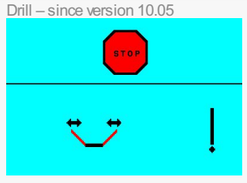
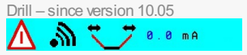
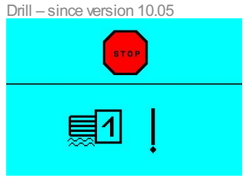
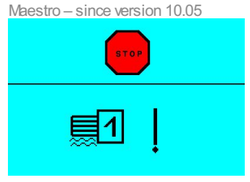
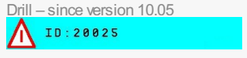
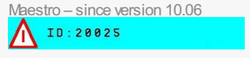
			Maestro – since version 9.67 					the motor. ○ Verify the predefined values for left, middle, right. ○ Check the motor function in the diagnostics. ○ Check the injector/venturi area mechanically (e.g. light moving, blocked)	
(51-1)	**A**	"Agtron" system error					Agtronmodul reports a system error	• Replacing the module.	
(52-1) estro (52-2)	**W**	Metering motor x overheating					Overheating in the electric circuit.	• Check the rotor for light movement. • Check the metering housing for mechanical damage. • Foreign objects present? • Use bean kit in case of coarse grain seed. • Check the current consumption of motor. • Replace the motor.	
(53-1) estro (53-2)	**W**	Metering motor x overloaded	Drill – since version 9.66  Maestro – since version 9.65 	Drill – since version 9.66  Maestro – since version 9.65 		Press ESC to confirm	Is displayed as soon as the current of the displayed metering motor is higher than 12 A.	• Check the rotor for light movement. • Check the metering housing for mechanical damage. • Foreign objects present? • Use bean kit in case of coarse grain seed. • Check the current consumption of motor. • Replace the motor.	
(54-1) estro (54-2)	**W**	Metering motor x current too high	Drill – since version 9.66  Maestro – since version 9.65 	Drill – since version 9.66  Maestro – since version 9.65 	10 sec.	Press ESC to confirm	Is displayed as soon as the current measured over the last minute is higher than 9 A.	• Check the rotor for light movement. • Check the metering housing for mechanical damage. • Foreign objects present? • Use bean kit in case of coarse grain seed. • Check the current consumption of motor. • Replace the motor.	
(56-1) estro (56-2)	**A**	Seed/fertiliser flow: Module, voltage too low	Drill – since version 9.67  Maestro – since version 9.67 	Drill – Versions 9.65 and 9.66  Maestro – Versions 9.65 and 9.66 	60 sec.	Press ESC to confirm	Current measured at the seed/fertiliser monitoring module too low.	• Check the voltage supply on the module of the Dickey-John diagnostics mask.	single audible signal

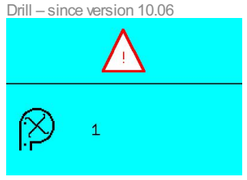
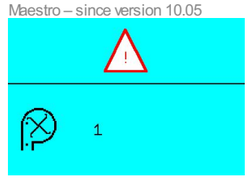
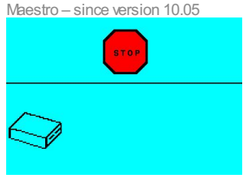
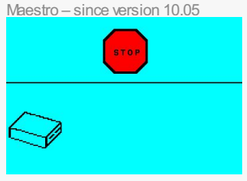
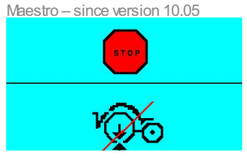
									
(57-1) estro (57-2)	A	Seed/fertiliser flow: Module, voltage too high	Drill – since version 9.67  Maestro – since version 9.67 	Drill – Versions 9.65 and 9.66  Maestro – Versions 9.65 and 9.66 	60 sec.	Press ESC to confirm	Current measured at the seed/fertiliser monitoring module too high.	• Check the voltage supply on the module of the Dickey-John diagnostics mask.	single audible signal
estro (60-2)	A	Row computer speed too high	Maestro – since version 9.67 	Maestro – Versions 9.65 and 9.66 		Not possible until error has been rectified	The advancing speed is too high. The metering motor is unable to maintain the demanded rotary speed. The nominal plant distance can thus not be maintained.	• Reduce the travel speed.	
(64-1) estro (64-2)	W	Overheating LED illumination	Drill – since version 10.13  Maestro – since version 10.13 	Drill – Versions 9.66 to 10.12  Maestro – Versions 9.66 to 10.12 		not possible, until error has been rectified	Lighting module has reached its temperature limit. The illumination switches off automatically to avoid damage caused by overheating.	• Serves the purpose of information. • Brightness of illumination is automatically reduced. • Cooling of illumination by dimming or switching off.	single audible signal
estro (65-2)	A	Fertiliser flow module failed	Maestro – since version 9.67 	Maestro – onlv version 9.66 	60 sec.	Press ESC to confirm	The connection to the fertiliser flow module is interrupted.	• Check the plug-and-socket connection and the wiring to the module.	
(66-1) estro (66-2)	A	Check folding direction	Drill – since version 9.67 	Maestro – since version 9.67 		Press ESC to confirm.	Hydraulic control unit operated to the wrong direction.	• Change the operating direction of the hydraulic control unit.	
(67-1)	A	Folding computer failed	Drill – since version 9.67 		60 sec.	Press ESC to confirm.	The connection to the fertiliser flow module is interrupted.	• Check the plug-and-socket connection and the wiring to folding computer.	3 successive audible signals
		Micro-granular compound	Maestro – since version 9.67 						

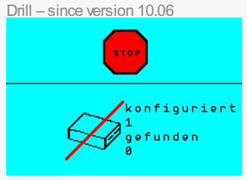
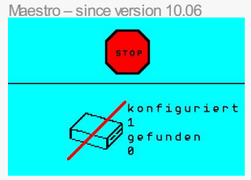
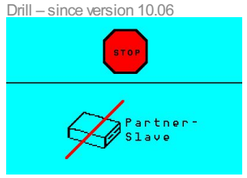
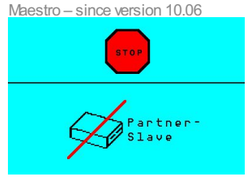
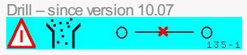
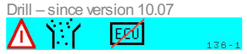
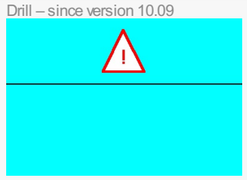
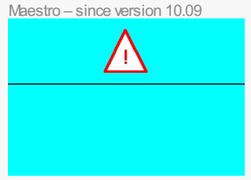
estro (68-2)	**A**	computer failed AutoForce computer failed Drilling depth computer failed			60 sec.	Press ESC to confirm.	Connection to slave job computer (Slave extension) is disrupted.	• Check the plug-and-socket connection and wiring to the slave job computer (Slave extension).	3 successive audible signals
(69-1)	**A**	Differences in wing inclinations	Drill – since version 9.67 		3 sec.	Press ESC to confirm.	Permissible deviation from the folding wing inclination exceeded. Automatic folding cannot be continued. Danger of the machine tipping over.	• There is a possibility to fold the machine manually by using the diagnostics menu. • Caution Danger of tipping	3 successive audible signals
(70-1) estro (70-2)	**W**	Powerpack speed too low	Drill – since version 10.03 	Maestro – since version 9.67 		not possible, until error has been rectified	Rotary speed outside the permissible range.	• Check the limiting values.	single audible signal
(71-1) estro (71-2)	**W**	Powerpack speed too high!	Drill – since version 10.03 	Maestro – since version 9.67 		not possible, until error has been rectified	Rotary speed outside the permissible range.	• Check the limiting values. • Check the hydraulic oil flow rate.	single audible signal
(72-1)	**W**	Inclination sensor defective				not possible, until error has been rectified	Values outside the permissible range are measured at the sensor input Unable to activate the folding function.	• Check the affected sensor. • Check the plug-and-socket connection and the wiring to the sensor.	single audible signal
(73-1)	**W**	Inclination sensor defective	Drill – since version 9.68 			Not possible until error has been rectified	Values outside the permissible range are measured at the sensor input Unable to activate the folding function.	• Check the affected sensor. • Check the plug-and-socket connection and the wiring to the sensor.	Single acoustic signal
(74-1)	**A**	Seed/fertiliser flow: Module x failed	Drill – since version 10.03 		60 sec.	Press ESC to confirm	"HORSCH" has been selected as seed/fertiliser flow monitoring system. The connection to the seed/fertiliser flow module is interrupted.	• Check the plug-and-socket connections and wiring to the module. • Check the electric power supply. • After module replacement: ◦ Perform manual addressing of the modules via diagnostics.	3 successive audible signals
estro (75-2)	**A**	Row not drilling	Maestro – since version 9.68 		3 seconds	not possible, until error has been rectified	A certain rotational speed of the single grain metering unit is expected. However, the single grain metering unit does not turn.	• Check plug-and-socket connections on the single grain metering unit for lose contacts. • Replace the single grain metering unit.	3 successive audible signals
(76-1)	**W**	No seed/fertiliser flow	Drill – since version 10.03 			Not possible until error has been rectified	"HORSCH" has been selected as seed/fertiliser flow monitoring system. No seed/fertiliser flow indicated during working position.	• Check the seed/fertiliser hoses for blockage. • Check the plug-and-socket connection between sensor and seed-fertiliser monitoring module.	single audible signal
(79-1)	**W**	Seed/fertiliser flow in the tram line	Drill – since version 10.03 			Press ESC to confirm	"HORSCH" has been selected as seed/fertiliser flow monitoring system. Seed/fertiliser flow is indicated in the tram line.	• Is the function of the tram line valve ensured? • Is the assignment sensor, module, slot and row correct?	single audible signal
(80-1)	**A**	No seed/fertiliser flow	Drill – since version 10.03 		10 sec.	Press ESC to confirm	"HORSCH" has been selected as seed/fertiliser flow monitoring system. No seed/fertiliser flow is indicated on sensor x in row x.	• Check the seed/fertiliser hoses for blockage. • Check the plug-and-socket connection between sensor and seed-fertiliser monitoring module.	3 successive audible signals

estro (83-2)	**W**	Load cell x not found	Maestro – since version 10.02 		Not possible until error has been rectified	Communication to the load cell interrupted.	• Check the plug-and-socket connections and wiring to the load cell.	single audible signal
estro (84-2)	**W**	External control terminal not found	Maestro – since version 10.02 		Not possible until error has been rectified	Communication to the external control terminal interrupted.	• Check the plug-and-socket connection and wiring to the external control terminal.	single audible signal
estro (85-2)	**W**	Load cell error	Maestro – since version 10.02 		Not possible until error has been rectified	An error is signalled by the load cell. There are different causes for the error message occurring (temperature; mechanical deformation,...).	• The cause for the occurrence of the error can be read using the HORSCH service tool. • Replace load cell.	single audible signal
estro (86-2)	**W**	External control terminal fault	Maestro – since version 10.02 		Not possible until error has been rectified	An error is signalled by the external control terminal. There are different causes for the error message occurring.	• The cause for the occurrence of the error can be read using the HORSCH service tool. • Replace the external control terminal.	single audible signal
estro (87-2)	**W**	AutoForce: Sensor cable break	Maestro – since version 10.05 		Not possible until error has been rectified	The sensor provides a value lower than 2 mA.	• Inspect cabling to sensor.	Single acoustic signal
estro (88-2)	**W**	AutoForce: Sensor short-circuit	Maestro – since version 10.05 		Not possible until error has been rectified	The sensor provides a value larger than 22mA	• Inspect cabling to sensor.	Single acoustic signal
(89-1) estro (89-2)	**W**	Row module: BUS overload	Drill – since version 10.05 	Maestro – since version 10.05 	Not possible until error has been rectified	The CAN BUS module has a too high frequency. (BUS error)	• Inspect wiring, module and motor. • Observe subsequent messages. Contact HORSCH Service in case of repeated occurrence.	Single acoustic signal
(90-1) estro (90-2)	**W**	Row module: Electronics voltage low	Drill – since version 10.05 	Maestro – since version 10.05 	Not possible until error has been rectified	Electronic voltage too low. Module still operational.	• Inspect the supply voltage on the tractor.	Single acoustic signal
(91-1) estro (91-2)	**W**	Row module: Excess voltage	Drill – since version 10.05 	Maestro – since version 10.05 	Not possible until error has been rectified	Electronic voltage too high. Module still operational.	• Inspect the supply voltage on the tractor.	Single acoustic signal
(92-1) estro (92-2)	**W**	Row module: Parameter reset to factory settings	Drill – since version 10.05 	Maestro – since version 10.05 	Not possible until error has been rectified	All module parameters were reset to factory settings. Occurrence is possible after update as long as Service Tool is connected. Error must not be displayed anymore after restarting the machine.	• Restart the system. Contact HORSCH Service in case of repeated occurrence.	Single acoustic signal
(93-1) estro (93-2)	**A**	Row module: Communication error (Slave communication time-out)	Drill – since version 10.05 	Maestro – since version 10.05 	3 seconds	Press ESC to confirm	Power supply to module is not present or too low. Motor processor has corrupted or no software.	• Inspect power supply to module. • Check fuses in wiring. • Perform update.	3 successive acoustic signals
(95-1) estro (95-2)	**W**	Row module: Watchdog error	Drill – since version 10.05 	Maestro – since version 10.05 	Not possible until error has been rectified	Internal software error.	• Restart the system. • Inspect system for current software version.Check machine for current software version.	Single acoustic signal
(96-1) estro (96-2)	**W**	Row module: Parameter limits	Drill – since version 10.05 	Maestro – since version 10.05 	Not possible until error has been rectified	Parameter set outside permissible parameter limit.	• Set standard parameter via Service Tool. • Contact HORSCH Service.	Single acoustic signal

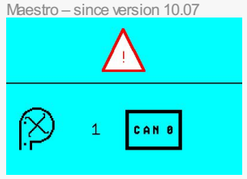
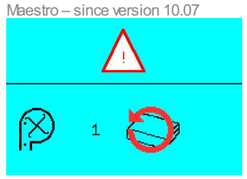
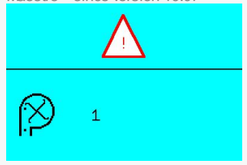
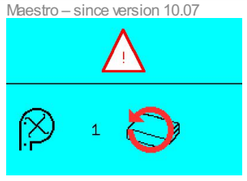
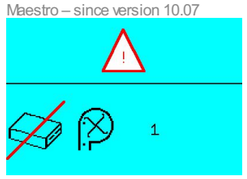
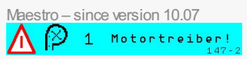
(98-1) estro (98-2)	**W**	Row module: Target speed cannot be retained	Drill – since version 10.06 	Maestro – since version 10.05 	3 seconds	Alarm Maestro: confirm with ESC Warning message seed drill: not possible until error is remedied	Specified target speed for the metering motor cannot be achieved.	• Inspect voltage and motor load.	3 successive acoustic signals
(99-1) estro (99-2)	**A**	Row module: Motor excess current	Drill – since version 10.06  Maestro – since version 10.05 	Drill – only version 10.05 	3 seconds	Press ESC to confirm	Motor will be shut off and remains stationary. Motor constantly heavily overload for a certain time period.	• Inspect metering unit for freedom of movement. • Inspect the metering disc settings.	3 successive acoustic signals
(100-1) estro (100-2)	**A**	Row module: Wire break (motor)	Drill – since version 10.05 	Maestro – since version 10.05 	3 seconds	Press ESC to confirm	Connection between module and motor interrupted.	• Inspect connection. • Replace motor or connecting cables, if necessary.	3 successive acoustic signals
(101-1) estro (101-2)	**A**	Row module: Overload (motor)	Drill – since version 10.06  Maestro – since version 10.05 	Drill – only version 10.05 	3 seconds	Press ESC to confirm	Motor overloaded. Motor shuts off and stops.	• Inspect metering unit for freedom of movement. Inspect the metering disc setting.	3 successive acoustic signals
(102-1) estro (102-2)	**A**	Seeder row module: Short-circuit (motor)	Drill – since version 10.05 	Maestro – since version 10.05 	3 seconds	Press ESC to confirm	One or several phases of the motor have short circuited.	• Inspect motor and connecting cable.	3 successive acoustic signals
(103-1) estro (103-2)	**W**	Row module: Duplicate addressing	Drill – since version 10.05 	Maestro – since version 10.05 		Not possible until error has been rectified	Two or more modules have the same address.	• Repeat addressing manually. • Inspect cabling and module.	Single acoustic signal
(104-1) estro (104-2)	**A**	Row module: Communication error (Slave communication time-out)	Drill – since version 10.05 	Maestro – since version 10.05 	3 seconds	Press ESC to confirm	No communication with seeder row module for at least 5 seconds.	• Inspect electronics voltage supply. • Check the wiring. • Inspect software version. • For AirVac/AirSpeed: ◦ Check CAN Enable (PIN 5) on the input of the first and the output of the last module. Operating voltage (approx. 12 V) must be applied to both.	3 successive acoustic signals

(105-1) estro (105-2)	**W**	Row module: Power voltage low	Drill – since version 10.05 	Maestro – since version 10.05 		Not possible until error has been rectified	Power voltage too low. Motor rpm limited.	• Verify power supply. • Ensure that 12V power is available on the module.	Single acoustic signal
(106-1) estro (106-2)	**W**	Row module: Power voltage too high	Drill – since version 10.05 	Maestro – since version 10.05 		Not possible until error has been rectified	Power voltage too high. Module still operational.	• Verify power supply.	Single acoustic signal
(107-1) estro (107-2)	**A**	Row module: Electronics voltage to low	Drill – since version 10.05 	Maestro – since version 10.05 	3 seconds	Press ESC to confirm	Electronic voltage too low, motor will be shuts off and remains stationary.	• Inspect electronics voltage supply. • Inspect cabling. • Inspect software version.	3 successive acoustic signals
(108-1) estro (108-2)	**A**	Row module: Power voltage too low	Drill – since version 10.05 	Maestro – since version 10.05 	3 seconds	Press ESC to confirm	Power voltage too low. Motor shuts off and stops.	• Verify power supply.	3 successive acoustic signals
(109-1)	**A**	Inspect flap device	Drill – since version 10.05 			Press ESC to confirm	Inspection executed for Pronto 12SW 3m EU. Pressure difference in the hydraulics, control device was actuated in the false direction.	• Inspect hydraulics, actuate control device in correct direction.	3 successive acoustic signals
(110-1)	**W**	Pressure sensor defect	Drill – since version 10.05 			Not possible until error has been rectified	Wire break with <3.5mA, short-circuit with >21mA	• Inspect cabling to sensor.	Single acoustic signal
(111-1)	**W**	Pressure sensor defect	Drill – since version 10.05 			Not possible until error has been rectified	Wire break with <3.5mA, short-circuit with >21mA	• Inspect cabling to sensor.	Single acoustic signal
(112-1) estro (112-2)	**A**	Metering motor overload	Drill – since version 10.05 	Maestro – since version 10.05 		Press ESC to confirm	Metering motor overloaded. Current consumption exceeds the set limiting value. Mean value of metering unit over 60 seconds above 12A or mean value over 5 seconds above 15A.	• Inspect the metering rotor for freedom of movement. • Inspect the metering housing for mechanical damage. • Foreign objects present? Use bean kit in case of coarse grain seed. • Inspect the current consumption of motor. • Replace the motor.	3 successive acoustic signals
(113-1) estro (113-2)	**W**	Row module: Transfer parameter	Drill – since version 10.05 	Maestro – since version 10.06 		Not possible until error has been rectified	Parameter not transferred correctly. The job computer software does not match the row module software.	• Reset fruit parameter and execute system new start. • If the error continues to occur, update the complete machine with a software bundle. To ensure that the update is successful, all installed row modules must be found with the Service Tool during the scan. • If the error continues to occur after the update, contact HORSCH Service.	Single acoustic signal
(114-1) estro (114-2)	**W**	Row module: Minimum speed for metering unit undershot	Drill – since version 10.05 	Maestro – since version 10.05 		Not possible until error has been rectified	When the minimum speed for the metering unit is constantly undershot (will be indicated by the fruit parameter mask).	• Drive quicker, increase target value, inspect settings	Single acoustic signal
(115-1)	**W**	Row module: Maximum speed	Drill – since version 10.05 	Maestro – since version 10.05 		Not possible until error has been	When the maximum speed for the metering unit is constantly exceeded (will be indicated by the fruit	• Drive slower, reduce target value, inspect settings	Single acoustic

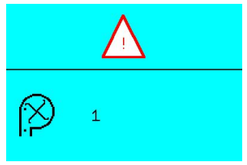
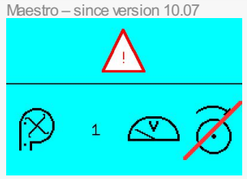
estro (115-2)		for metering unit exceeded				rectified	parameter mask).	signal
(116-1) estro (116-2)	**W**	Row module: Short-circuit or motor driver temperature	Drill – since version 10.05 	Maestro – since version 10.05 		Not possible until error has been rectified	Short-circuit on the motor cable or power driver from the module is too warm.	• Check the motor cable for damage. • Switch off machine, let it cool down,. execute system new start. • In case of repeated occurrence, replace the affected motor cable (a damaged cable cannot necessarily be detected from the outside).	Single acoustic signal
(117-1) estro (117-2)	**W**	Row module: Motor driver voltage	Drill – since version 10.05 	Maestro – since version 10.05 		Not possible until error has been rectified	Undervoltage on power drive.	• Inspect power voltage.	Single acoustic signal
(118-1) estro (118-2)	**A**	Row module: Motor reset	Drill – since version 10.06 	Maestro – since version 10.05 	3 sec.	Press ESC to confirm	Motor controller restarts unexpectedly.	• Observe subsequent error and contact HORSCH Service in case of repeat occurrence.	3 successive acoustic signals
(119-1) estro (119-2)	**W**	Row module: Sensor time-out	Drill – since version 10.05 	Maestro – since version 10.05 		Not possible until error has been rectified	Communication from module to sensor failed.	• Inspect cabling.	Single acoustic signal
(120-1) estro (120-2)	**W**	Row module: Sensor defective	Drill – since version 10.05 	Maestro – since version 10.05 		Not possible until error has been rectified	Sensor defective. Sensor connection disrupted.	• Inspect cabling.	Single acoustic signal
(121-1) estro (121-2)	**W**	Row module: Sensor undervoltage	Drill – since version 10.05 	Maestro – since version 10.05 		Not possible until error has been rectified	Operation voltage on sensor too low.	• Inspect supply voltage on sensor.	Single acoustic signal
(122-1) estro (122-2)	**W**	Row module: Sensor LIN communication faulty	Drill – since version 10.05 	Maestro – since version 10.05 		Not possible until error has been rectified	Incorrect messages are sent to sensor.	• Inspect cabling. • Execute system new start.	Single acoustic signal
(123-1) estro (123-2)	**W**	Row module: Metering unit motor speed too low	Drill – since version 10.05 	Maestro – since version 10.05 		Not possible until error has been rectified	Engine speed too low during working.	• Increase the working speed. • Increase nominal value. • Inspect settings.	Single acoustic signal
estro (124-2)	**A**	AutoForce: Communication limited	Maestro – since version 10.05 			Press ESC to confirm	Number of expected and existing messages in CAN-BUS-System do not correspond.	• Inspect cabling. • Possible cause: Loose connection	3 successive acoustic signals
estro (125-2)	**A**	AutoForce: Communication errors	Maestro – since version 10.05 			Press ESC to confirm	Software on the Slave computer is incorrect. AutoForce functionality is not supported.	• Inspect the currentness and compatibility of the software status on the attached auxiliary components. • Install correct software	3 successive acoustic signals
estro (126-2)	**A**	AutoForce: Regulating deactivated	Maestro – since version 10.05 			Press ESC to confirm	All sensor values above valid range.	• Inspect sensor for functionality. • Inspect sensor calibration. • Replace sensor when necessary.	3 successive acoustic signals

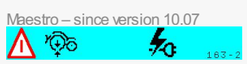
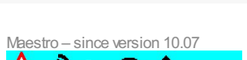
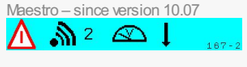
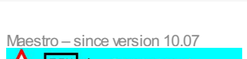
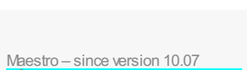
estro (127-2)	**W**	AutoForce: Contact to ground interrupted	Maestro – since version 10.06 		Not possible until error has been rectified	Only inadequate coulter pressure can be generated, resistance is too great. Measured forced on sensor is too low over a certain time period. Seed insertion depth cannot be retained.	• Increase target value. • Prepare ground for seed. • Inspect the parallelogram on the drill unit for freedom of movement.	Single acoustic signal
estro (128-2)	**W**	AutoForce: Sensor has plastic-type deformation	Maestro – since version 10.05 		Not possible until error has been rectified	Sensor was plastically deformed. Original calibrated sensor value in unloaded status is not achieved again.	• Inspect the sensor and replace when necessary.	Single acoustic signal
(129-1) estro (129-2)	**A**	Difference: Slave configured - slave identified	Drill – since version 10.06 	Maestro – since version 10.06 	Press ESC to confirm	The number of configured Slaves differentiates from the number of identified Slaves.	• Check the configuration of the machine according to the equipment. • Check wiring and hardware. • Has the wiring been made in the correct order? • Is one of the expected job computers defective?? • Restart Master JR after correcting the error (disconnect ISOBUS for 10 seconds and then reconnect). The missing slaves are only recognised again after restarting the master.	3 successive acoustic signals
estro (130-2)	**W**	Minimum quantity	Maestro – since version 10.06 		Not possible until error has been rectified	Row-individual flow monitoring. Too little material flow is detected for a specific row.	• Inspect the seed/fertiliser hoses for blockage. • Inspect the seed/fertiliser flow system according to the operating instructions.	Single acoustic signal
estro (131-2)	**W**	More quantity	Maestro – since version 10.06 		Not possible until error has been rectified	Row-individual flow monitoring. Fertiliser flow is detected although there should be no fertiliser flow in this row.	• Control the metering unit direction. • Inspect the seed/fertiliser flow system according to the operating instructions.	Single acoustic signal
(132-1)	**W**	Seed flow in deactivated half side	Drill – since version 10.06 		Not possible until error has been rectified	Material flow detected in the switched on half side.	• Inspect the material flow system for mechanical defect. • Is the position and control system for the half-side flap correct? • Is the arrangement of the seed control module for the corresponding half side correct?	Single acoustic signal
(133-1)	**A**	Seed control hardware configuration incompatible			Press ESC to confirm	The configuration of the built-in seed control module is not set correctly.	• Does this relate to differential software versions for the module? • Inspect the configuration for the module in the system.	3 successive acoustic signals
(134-1) estro (134-2)	**A**	Partner Slave not present	Drill – since version 10.06 	Maestro – since version 10.06 	Press ESC to confirm	Is there is a combination of HORSCH front- and rear attachments connected together via the ISOBUS, functions one of the attachments as Master and one as Slave? The attachment which functions as Slave is not identified.	• Check the configuration for front and rear attachments. • Inspect cabling. • Restart Master JR after correcting the error (disconnect ISOBUS for 10 seconds and then reconnect). The slave is only recognised again after restarting the master.	3 successive acoustic signals
(135-1)	**W**	Agtron fertiliser/seed flow monitoring interruption	Drill – since version 10.07 		Not possible until error has been rectified	Connection between two fertiliser/seed flow sensor interrupted.	• Check wiring between module and fertiliser/seed flow sensor. • Test sensor using the exclusion process.	3 successive acoustic signals
(136-1)	**A**	Agtron fertiliser/seed flow monitoring reset	Drill – since version 10.07 		Not possible until error has been rectified	Communication to fertiliser/seed flow module temporarily interrupted. Module restarts.	• Restart the system. • Check wiring between module and fertiliser/seed flow sensor. • Check module.	3 successive acoustic signals
(137-1) estro (137-2)	**A**	AutoLine: Tram line parameter change although automatic mode is active	Drill – since version 10.09 	Maestro – since version 10.09 	Press ESC to confirm	Message appears when automatic tramline feature is still activated and the tram line settings shall still be modified.	• Check whether the parameters shall really be changed. • If affirmative, disable the automatic tramline feature.	3 successive acoustic signals

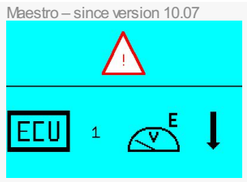
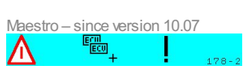
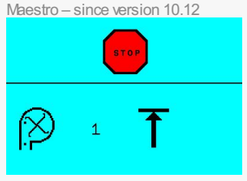
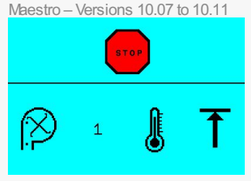
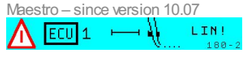
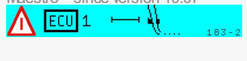
- Message only appears for individual modules: =>

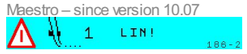
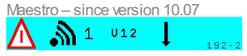
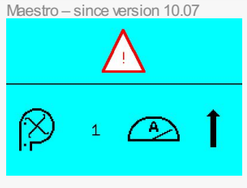
(138-1) estro (138-2)	**W**	Row module: CAN bus error Bus 0		Not possible until error has been rectified	Error source between upstream and notifying module. => Components possibly defective: ◦ Module ◦ Plug-and-socket connection ◦ Connecting cable ◦ Module addressing faulty • Message appears for all modules: ◦ Module addressing faulty	• Restart system. • Address again. • Check / replace cables and plug-and-socket connections. • Contact HORSCH Service in case of repeated occurrence.	Single acoustic signal
(139-1) estro (139-2)	**A**	Row module: CAN bus fault Bus 0	Maestro – since version 10.07 	Press ESC to confirm	• Error source between the upstream module (left wing) or downstream module (right wing) and signalling module. Components possibly defective: ◦ Module ◦ Plug-and-socket connection ◦ Connecting cable => No communication to adjacent modules	• Restart system. • Address again. • Check / replace cables and plug-and-socket connections. • Contact HORSCH Service in case of repeated occurrence.	3 successive acoustic signals
(140-1) estro (140-2)	**W**	Row module: Memory full CAN 0			Overflow of receiving buffer of row module.	• Restart system. • Contact HORSCH Service in case of repeated occurrence.	
(141-1) estro (141-2)	**W**	Row module: Memory full CAN 0			Overflow of send buffer of row module.	• Restart system. • Contact HORSCH Service in case of repeated occurrence.	
(142-1) estro (142-2)	**A**	Row module: Module RESET	Maestro – since version 10.07 	Press ESC to confirm	Unexpected restart of electronic processor in row module.	• Restart system. • Contact HORSCH Service in case of repeated occurrence.	
(143-1) estro (143-2)	**A**	Row module: Motor communication interrupted	Maestro – since version 10.07 	Press ESC to confirm	Power voltage too low. Aborted update process. Faulty update.	• Check power supply. • Update all row modules once more with the Service Tool.	3 successive acoustic signals
(144-1) estro (144-2)	**A**	Row module: Motor controller RESET	Maestro – since version 10.07 	Press ESC to confirm	Unexpected restart of power processor. Unexpected voltage drop.	• Check power supply. • Check wiring to module (loose contact?).	
(145-1) estro (145-2)	**W**	Row module: Motor controller Watchdog Reset	Maestro – since version 10.07 	Not possible until error has been rectified	Unexpected restart of electronic processor in row module.	• Restart system. • Contact HORSCH Service in case of repeated occurrence.	Single acoustic signal
(146-1) estro (146-2)	**A**	Row module: Metering motor not connected	Maestro – since version 10.07 	Press ESC to confirm	The following was detected on system restart: Wiring to motor interrupted.	• Check wiring, module and motor. • Wiring damaged? • Plug engaged? • Restart the system. • Replace the module in case of repeated occurrence	3 successive acoustic signals
(147-1) estro (147-2)	**W**	Row module: Motor driver fault	Maestro – since version 10.07 	Not possible until error has been rectified	• Possible causes: ◦ Temporary voltage drop ◦ Overheating ◦ Module defective	• Restart system. • Replace module in case of repeated occurrence.	Single acoustic signal

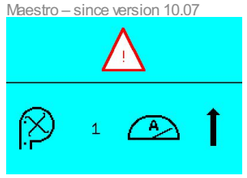
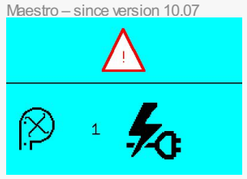
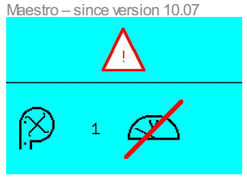
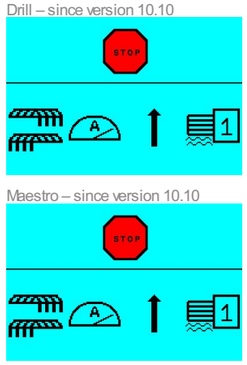
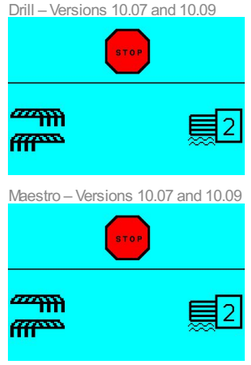
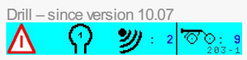
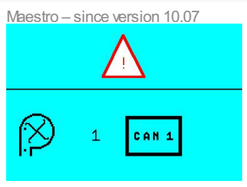
Maestro – since version 10.07

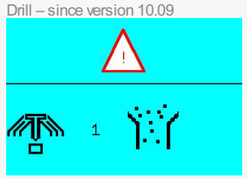
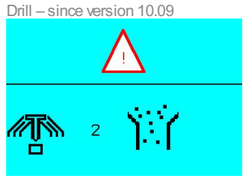
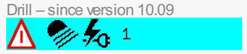
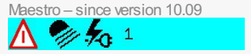
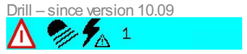
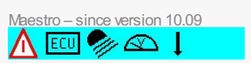
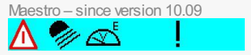
(148-1) estro (148-2)	**A**	Row module: Motor overload			Press ESC to confirm	Current to motor too high through mechanical overload. Motor switches off. Drilling error!	• Check metering unit for easy movement. • Check cotter pin of motor shaft as well as metering disc spacing according to operating instructions.	3 successive acoustic signals
(149-1) estro (149-2)	**W**	Row module: Power voltage too high	Maestro – since version 10.07 		Not possible until error has been rectified	Power voltage too high.	• Immediate system shut-down. • Check power supply.	Single acoustic signal
(150-1) estro (150-2)	**W**	Row module: Power voltage too low	Maestro – since version 10.07 		Not possible until error has been rectified	Power voltage too low. Motor speed limited.	• Verify power supply. • Optimal operating range 10-16 V.	Single acoustic signal
(151-1) estro (151-2)	**A**	Row module: Power voltage critical. Motor stop	Maestro – since version 10.07 		Press ESC to confirm	Power voltage too high. Module still operational.	• Verify power supply. • Optimal operating range 10-16 V.	3 successive acoustic signals
(152-1) estro (152-2)	**W**	Row module: Downpipe sensor supply voltage too high	Maestro – since version 10.07 		Not possible until error has been rectified	Supply voltage too high. Module defective.	• Check supply voltage on downpipe sensor. • Optimal operating range 10-16 V. • Replace module if defective.	Single acoustic signal
(153-1) estro (153-2)	**W**	Row module: Downpipe sensor supply voltage too low	Maestro – since version 10.07 		Not possible until error has been rectified	Supply voltage too low. Module defective.	• Check supply voltage on downpipe sensor. • Optimal operating range 10-16 V. • Replace module if defective.	Single acoustic signal
(154-1) estro (154-2)	**W**	Row module: Downpipe sensor current too high	Maestro – since version 10.07 		Not possible until error has been rectified	Current on downpipe sensor too high. Short-circuit (cable damaged). Downpipe sensor defective. Module defective.	• Inspect cabling. • Check current on downpipe sensor. • Replace downpipe sensor if defective. • Replace module if defective.	Single acoustic signal
(155-1) estro (155-2)	**W**	Row module: Downpipe sensor current too low	Maestro – since version 10.07 		Not possible until error has been rectified	Current on downpipe sensor too low. Cable break (cable damaged). Downpipe sensor defective. Module defective.	• Inspect cabling. • Check current on downpipe sensor. • Replace downpipe sensor if defective. • Replace module if defective.	Single acoustic signal
(156-1) estro (156-2)	**W**	Row module: Coulter pressure sensor supply voltage too high	Maestro – since version 10.07 		Not possible until error has been rectified	Supply voltage on coulter pressure sensor too high. Measuring accuracy of coulter pressure sensor restricted. Module defective.	• Inspect cabling. • Check supply voltage. • Replace module if defective.	Single acoustic signal
(157-1) estro (157-2)	**W**	Row module: Coulter pressure sensor supply voltage too low	Maestro – since version 10.07 		Not possible until error has been rectified	Supply voltage on coulter pressure sensor too low. Measuring accuracy of coulter pressure sensor restricted. Module defective.	• Inspect cabling. • Check supply voltage. • Replace module if defective.	Single acoustic signal
(158-1) estro (158-2)	**W**	Row module: Coulter pressure sensor current supply too high	Maestro – since version 10.07 		Not possible until error has been rectified	Current on coulter pressure sensor too high. Short-circuit (cable damaged). Coulter pressure sensor defective. Module defective.	• Inspect cabling. • Check current on coulter pressure sensor. • Replace coulter pressure sensor if defective. • Replace module if defective.	Single acoustic signal
(159-1) estro (159-2)	**W**	Row module: Coulter pressure sensor current supply too low	Maestro – since version 10.07 		Not possible until error has been rectified	Current on coulter pressure sensor too low. Cable break (cable damaged). Coulter pressure sensor defective. Module defective.	• Inspect cabling. • Check current on coulter pressure sensor. • Replace coulter pressure sensor if defective. • Replace module if defective.	Single acoustic signal
(160-1)		Row module: Coulter pressure	Maestro – since version 10.07		Not possible until	Supply voltage on coulter pressure valve too high.	• Inspect cabling.	Single

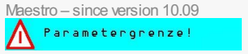
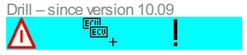
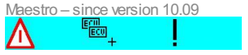
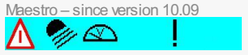
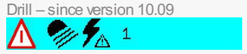
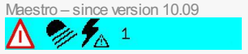
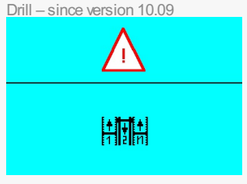
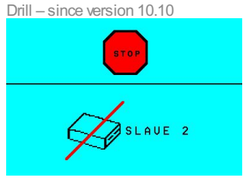
(160-1) estro (160-2)	W	Coulter pressure valve supply voltage too high			error has been rectified	Control accuracy of coulter pressure system restricted.	• Inspect cabling. • Check supply voltage on coulter pressure valve.	acoustic signal
(161-1) estro (161-2)	W	Row module: Coulter pressure valve supply voltage too low		Maestro – since version 10.07	Not possible until error has been rectified	Supply voltage on coulter pressure valve too low. Control accuracy of coulter pressure system restricted.	• Inspect cabling. • Check supply voltage on coulter pressure valve.	Single acoustic signal
(162-1) estro (162-2)	W	Row module: Coulter pressure valve current too high		Maestro – since version 10.07	Not possible until error has been rectified	• Current on coulter pressure valve too high: ◦ Short-circuit (cable damaged). ◦ Coulter pressure valve defective. ◦ Module defective.	• Inspect cabling. • Check current on coulter pressure valve. • Replace coulter pressure valve if defective. • Replace module if defective.	Single acoustic signal
(163-1) estro (163-2)	W	Row module: Coulter pressure valve current too low		Maestro – since version 10.07	Not possible until error has been rectified	• Current on coulter pressure valve too low: ◦ Cable break (cable damaged). ◦ Coulter pressure valve defective. ◦ Module defective.	• Inspect cabling. • Check current on coulter pressure valve. • Replace coulter pressure valve if defective. • Replace module if defective.	Single acoustic signal
(164-1) estro (164-2)	W	Row module: Coulter pressure sensor signal current too high		Maestro – since version 10.07	Not possible until error has been rectified	Current on the signal line of the coulter pressure sensor too high (>21 mA).	• Inspect cabling. • Check current on the coulter pressure sensor signal line. • Replace coulter pressure sensor if defective.	Single acoustic signal
(165-1) estro (165-2)	W	Row module: Coulter pressure sensor signal current too low		Maestro – since version 10.07	Not possible until error has been rectified	Current on the signal line of the coulter pressure sensor too low (<3,5mA).	• Inspect cabling. • Check current on the coulter pressure sensor signal line. • Replace coulter pressure sensor if defective.	Single acoustic signal
(166-1) estro (166-2)	W	Row module: Fertiliser/seed flow sensor supply voltage too high		Maestro – since version 10.07	Not possible until error has been rectified	Supply voltage on fertiliser/seed flow sensor too high. Module defective.	• Inspect cabling. • Check supply voltage on fertiliser/seed flow sensor. • Replace module if defective.	Single acoustic signal
(167-1) estro (167-2)	W	Row module: Fertiliser/seed flow sensor supply voltage too low		Maestro – since version 10.07	Not possible until error has been rectified	Supply voltage on fertiliser/seed flow sensor too low. Module defective.	• Inspect cabling. • Check supply voltage on fertiliser/seed flow sensor. • Replace module if defective.	Single acoustic signal
(168-1) estro (168-2)	W	Row module: Fertiliser/seed flow sensor current too high		Maestro – since version 10.07	Not possible until error has been rectified	Current for fertiliser/seed flow sensor too high. Short-circuit (cable damaged). Fertiliser/seed flow sensor defective. Module defective.	• Inspect cabling. • Check fertiliser/seed flow sensor. • Restart system. • Replace fertiliser/seed flow sensor if defective. • Replace module if defective.	Single acoustic signal
(169-1) estro (169-2)	W	Row module: Fertiliser/seed flow sensor current too low		Maestro – since version 10.07	Not possible until error has been rectified	Current for fertiliser/seed flow sensor too low. Cable break (cable damaged). Fertiliser/seed flow sensor defective. Module defective.	• Inspect cabling. • Check fertiliser/seed flow sensor. • Restart system. • Replace fertiliser/seed flow sensor if defective. • Replace module if defective.	Single acoustic signal
(170-1) estro (170-2)	W	Row module: FRAM defective		Maestro – since version 10.07	Not possible until error has been rectified	Memory in row module defective.	• Error when transferring the drill-relevant parameters. • Restart system. • Contact HORSCH Service in case of repeated occurrence. • Replace module if defective.	Single acoustic signal
(171-1) estro (171-2)	W	Row module: FRAM data invalid		Maestro – since version 10.07	Not possible until error has been rectified	Data in FRAM memory of row module invalid/cannot be read. Data is reset to default. All module parameters were reset to factory settings. Occurrence is possible after update as long as connected to ServiceTool. Error must not be displayed anymore after restarting the machine.	• Restart system. • Contact HORSCH Service in case of repeated occurrence. • Replace module if defective.	Single acoustic signal
(172-1) estro (172-2)	W	Row module: Acceleration sensor defective		Maestro – since version 10.07	Not possible until error has been rectified	Acceleration sensor in row module defective. Row module defective.	• Restart system. • Replace module if error occurs.	Single acoustic signal
(173-1)		Row module: Acceleration		Maestro – since version 10.07	Not possible until	Data of the accelerometer sensor in the row module	• Restart system.	Single

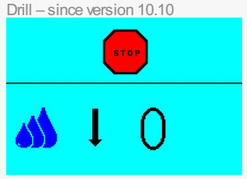
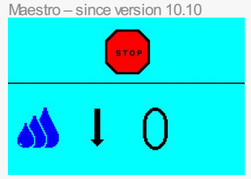
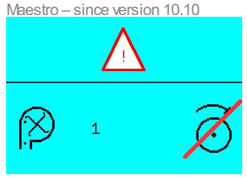
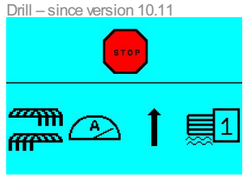
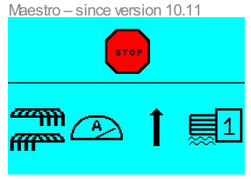
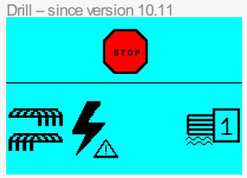
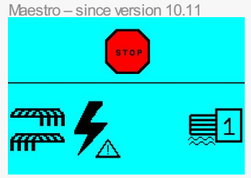
(173-1) estro (173-2)	W	Acceleration sensor data invalid			error has been rectified	Data of the accelerometer sensor in the row module invalid.	• Restart system. • Contact HORSCH Service in case of repeated occurrence.	acoustic signal
(174-1) estro (174-2)	W	Row module: Coulter pressure valve short-circuit	Maestro – since version 10.07 		Not possible until error has been rectified	Current on coulter pressure valve much too high (shut-off by hardware). Short-circuit (cable damaged). Coulter pressure valve defective. Module defective.	• Inspect cabling. • Check current on coulter pressure valve. • Replace coulter pressure valve if defective. • Replace module if defective.	Single acoustic signal
(175-1) estro (175-2)	W	Row module: Electronics voltage too high	Maestro – since version 10.07 		Not possible until error has been rectified	Electronic voltage too high. Module still operational.	• Inspect cabling. • Inspect the supply voltage on the tractor. • Optimal operating range 10-16 V.	Single acoustic signal
(176-1) estro (176-2)	W	Row module: Electronics voltage too low	Maestro – since version 10.07 		Not possible until error has been rectified	Electronics voltage too low. Module still operational.	• Inspect cabling. • Inspect the supply voltage on the tractor. • Optimal operating range 10-16 V.	Single acoustic signal
(177-1) estro (177-2)	A	Row module: Electronics voltage critical	Maestro – since version 10.07 		Press ESC to confirm	Electronics voltage too low or not available. Module no longer operable. Motor switches off. Drilling error!	• Inspect cabling. • Inspect the supply voltage on the tractor. • Optimal operating range 10-16 V.	3 successive acoustic signals
(178-1) estro (178-2)	W	Row module: CAN communication duplicate addressing	Maestro – since version 10.07 		Not possible until error has been rectified	Addressing of modules invalid.	• Repeat addressing manually. • Check system for correct wiring.	Single acoustic signal
(179-1) estro (179-2)	A	Row module: Motor overload	Maestro – since version 10.12 	Maestro – Versions 10.07 to 10.11 	Press ESC to confirm	Excessive current consumption of motor for extended period. Motor temperature too high. Motor switches off. Drilling error!	• Switch off the machine, allow to cool, acknowledge error message. • Motor will then restart. • In case of repeated occurrence: ◦ Check metering unit for easy movement. ◦ Check cotter pin of motor shaft as well as metering disc spacing according to operating instructions.	3 successive acoustic signals
(180-1) estro (180-2)	W	Row module: Downpipe sensor LIN bus not connected	Maestro – since version 10.07 		Not possible until error has been rectified	Communication system (LIN bus) to sensor is not connected.	• Restart system. • Inspect cabling. • Replace downpipe sensor if error occurs repeatedly.	Single acoustic signal
(181-1) estro (181-2)	W	Row module: Downpipe sensor timeout	Maestro – since version 10.07 		Not possible until error has been rectified	No communication between row module and downpipe sensor.	• Restart system. • Inspect cabling. • Replace downpipe sensor if error occurs repeatedly.	Single acoustic signal
(182-1) estro (182-2)	W	Row module: Downpipe sensor signal line defective	Maestro – since version 10.07 		Not possible until error has been rectified	Check of signal line with test pulses not successful. Test of signal line by software takes place automatically when machine is not working. Cable break (cable damaged).	• Restart system. • Inspect cabling. • Replace downpipe sensor if error occurs repeatedly.	Single acoustic signal
(183-1) estro (183-2)	W	Row module: Downpipe sensor communication error	Maestro – since version 10.07 		Not possible until error has been rectified	Error when exchanging data of the downpipe sensor.	• Restart system. • Inspect cabling. • Replace downpipe sensor if error occurs repeatedly.	Single acoustic signal
(184-1) estro (184-2)	W	Row module: Downpipe sensor sender light barrier defective	Maestro – since version 10.07 		Not possible until error has been rectified	Downpipe sensor defective.	• Restart system. • Replace downpipe sensor if error occurs repeatedly.	Single acoustic signal
(185-1) estro (185-2)	W	Row module: Downpipe sensor undervoltage	Maestro – since version 10.07 		Not possible until error has been rectified	Supply voltage on downpipe sensor too low. Metering accuracy affected.	• Inspect cabling. • Check supply voltage on downpipe sensor. • Replace downpipe sensor if defective.	Single acoustic signal

		undervoltage		rectified		• Replace downpipe sensor if defective.	signal
(186-1) estro (186-2)	W	Row module: Downpipe sensor communication error	Maestro – since version 10.07 	Not possible until error has been rectified	Faulty messages are sent to the sensor (defective LIN frame).	• Restart system. • Inspect cabling. • Replace downpipe sensor if error occurs repeatedly.	Single acoustic signal
(187-1) estro (187-2)	W	Row module: Fertiliser/seed flow sensor signal current too high	Maestro – since version 10.07 	Not possible until error has been rectified	Current for fertiliser/seed flow sensor too high. Short-circuit (cable damaged). Fertiliser/seed flow sensor defective. Module defective.	• Inspect cabling. • Check fertiliser/seed flow sensor. • Restart system. • Replace fertiliser/seed flow sensor if defective. • Replace module if defective.	Single acoustic signal
(188-1) estro (188-2)	W	Row module: Fertiliser/seed flow sensor signal current too low	Maestro – since version 10.07 	Not possible until error has been rectified	Current for fertiliser/seed flow sensor too low. Cable break (cable damaged). Fertiliser/seed flow sensor defective. Module defective.	• Inspect cabling. • Check fertiliser/seed flow sensor. • Restart system. • Replace fertiliser/seed flow sensor if defective. • Replace module if defective.	Single acoustic signal
(189-1) estro (189-2)	W	Row module: Fertiliser/seed flow sensor signal voltage 0-10 V range too high	Maestro – since version 10.07 	Not possible until error has been rectified	Voltage of signal line on fertiliser/seed flow sensor in 0-10 V range too high.	• Inspect cabling. • Check fertiliser/seed flow sensor. • Restart system.	Single acoustic signal
(190-1) estro (190-2)	W	Row module: Fertiliser/seed flow sensor signal voltage 0-10 V range too low	Maestro – since version 10.07 	Not possible until error has been rectified	Voltage of signal line on fertiliser/seed flow sensor in 0-10 V voltage range too low.	• Inspect cabling. • Check fertiliser/seed flow sensor. • Restart system.	Single acoustic signal
(191-1) estro (191-2)	W	Row module: Fertiliser/seed flow sensor signal voltage 0-12 V too high	Maestro – since version 10.07 	Not possible until error has been rectified	Voltage of signal line on fertiliser/seed flow sensor in 0-12 V voltage range too high.	• Inspect cabling. • Check fertiliser/seed flow sensor. • Restart system.	Single acoustic signal
(192-1) estro (192-2)	W	Row module: Fertiliser/seed flow sensor signal voltage 0-12 V too low	Maestro – since version 10.07 	Not possible until error has been rectified	Voltage of signal line on fertiliser/seed flow sensor in 0-12V voltage range too low.	• Inspect cabling. • Check fertiliser/seed flow sensor. • Restart system.	Single acoustic signal
(193-1) estro (193-2)	W	Row module: Downpipe sensor short-circuit	Maestro – since version 10.07 	Not possible until error has been rectified	Current to downpipe sensor much too high (shut-off by hardware). Short-circuit (cable damaged).	• Inspect cabling. • Check downpipe sensor. • Restart system.	Single acoustic signal
(194-1) estro (194-2)	W	Row module: Coulter pressure sensor short-circuit	Maestro – since version 10.07 	Not possible until error has been rectified	Current to coulter pressure sensor much too high (shut-off by hardware). Short-circuit (cable damaged).	• Inspect cabling. • Check coulter pressure sensor. • Restart system.	Single acoustic signal
(195-1) estro (195-2)	W	Row module: Fertiliser/seed flow sensor short-circuit	Maestro – since version 10.07 	Not possible until error has been rectified	Current to fertiliser/seed flow sensor much too high (shut-off by hardware). Short-circuit (cable damaged).	• Inspect cabling. • Check fertiliser/seed flow sensor. • Restart system.	Single acoustic signal
(196-1) estro (196-2)	W	Row module: Coulter pressure valve short-circuit	Maestro – since version 10.07 	Not possible until error has been rectified	Current to coulter pressure valve much too high (shut-off by hardware). Short-circuit (cable damaged).	• Inspect cabling. • Check coulter pressure valve. • Restart system.	Single acoustic signal
(197-1) estro (197-2)	A	Row module: Motor current too high	Maestro – since version 10.07 	Press ESC to confirm	Current to motor too high. Motor switches off. Drilling error!	• Inspect cabling. • Check metering unit for easy movement. • Check cotter pin, motor shaft as well as metering disc spacing according to operating instructions. • Acknowledge error message, motor will then restart.	3 successive acoustic signals

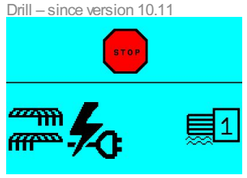
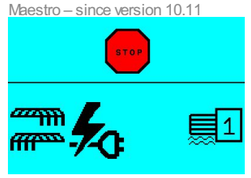
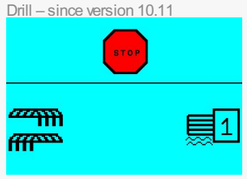
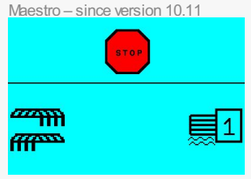
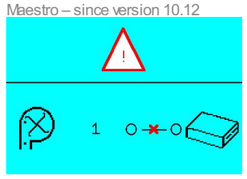
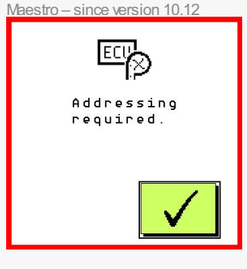
(198-1) estro (198-2)	**A**	Row module: Motor overload	Maestro – since version 10.07 	Press ESC to confirm	Torque of the motor too high for extended period. Motor switches off.	• Check motor load. • Check metering unit for easy movement. • Check cotter pin, motor shaft as well as metering disc spacing according to operating instructions. • Acknowledge error message, motor will then restart.	3 successive acoustic signals
(199-1) estro (199-2)	**A**	Row module: Motor wire break	Maestro – since version 10.07 	Press ESC to confirm	During a system restart, a motor was detected on this module at least once. No motor is now detected any longer on the row module output. => Wire break (cable damaged/loose).	• Check wiring, module and motor. • Restart the system. • Replace motor if defective.	3 successive acoustic signals
(200-1) estro (200-2)	**A**	Row module: No power supply	Maestro – since version 10.07 	Press ESC to confirm	No power supply present at row module. Fuse defective, Wire break or tractor supply too low.	• Check the fuse. • Check the wiring. • Check the voltage on the 2-pin AMP connector of the row module: ◦ 1 = - ◦ 2 = +	3 successive acoustic signals
(201-1) estro (201-2)	**W**	Row module: CAN bus error Bus 1		Not possible until error has been rectified	• Message only appears for individual modules: => Error source between upstream and notifying module. => Components possibly defective: ◦ Module ◦ Plug-and-socket connection ◦ Connecting cable ◦ Module addressing faulty • Message appears for all modules: ◦ Module addressing faulty	• Address again. • Check or replace cables and plug-and-socket connection. • Replace module in case of repeated occurrence.	Single acoustic signal
(202-1) estro (202-2)	**A**	LINAK overcurrent	Drill – since version 10.10  Maestro – since version 10.10 Drill – Versions 10.07 and 10.09  Maestro – Versions 10.07 and 10.09 	Press ESC to confirm	Overload of section control motor. It is shut off for protection.	• Check half-width flap for blockage or damages. • Remove any blockage that may be present. • Replace flap if damaged. • Check correct function of half-width flap after problem has been corrected. • From SW version 10.11: • Explicit note through popup. Check half-width flap for damage and clear blockage. Replace or repair flap if damaged. After this the teach values and positions of the half-width flap must be absolutely checked. The drill function main switch must be activated again on its own.	3 successive acoustic signals
(203-1)	**W**	Seed flow in deactivated row	Drill – since version 10.07 		Machine type: Panther with active DoubleRowSpace Mode. Seed/fertiliser flow is indicated in the seed hoses of the tram line during operation.	• Check the function of the tram line valve. • Check allocation of sensor to tram line valve.	
(204-1) estro (204-2)	**A**	Row module: CAN bus fault Bus 1	Maestro – since version 10.07 	Press ESC to confirm	• Error source between the upstream module (right wing) or downstream module (left wing) and signalling module. Components possibly defective: ◦ Module ◦ Plug-and-socket connection ◦ Connecting cable => No communication to adjacent modules.	• Restart system. • Address again. • Check or replace cables and plug-and-socket connection. • Replace module if defective.	3 successive acoustic signals
(205-1) estro (205-2)	**W**	Row module: Memory full CAN 1			Overflow of receiving buffer of row module.	• Restart system. • Contact HORSCH Service in case of repeated occurrence.	
(206-1)		Row module:				• Restart system.	

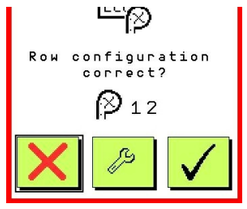
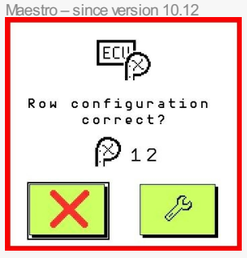
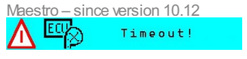
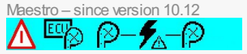
(206-1) estro (206-2)	**W**	Memory full CAN 1					Overflow of send buffer of row module.	• Restart system. • Contact HORSCH Service in case of repeated occurrence.	
(207-1)	**A**	Row Control Tower 1 clogged	Drill – since version 10.09 			5 sec.	Press ESC to confirm	Row Control Tower 1 filled to the sensor => no or reduced placement. Drilling error! Working speed too fast at too many closed valves (too much seed / fertiliser per second). Usually occurs in Double Row Space mode.	• Do not switch off the fan! • If the fan is running, open the valves manually and empty the tower. • Check whether valves open. • Retry at reduced speed or reduced placing quantity once the tower has been emptied again. • Metering unit target speed at RowControl approx. 100 rpm.	3 successive acoustic signals
(208-1)	**A**	Row Control Tower 2 clogged	Drill – since version 10.09 			5 sec.	Press ESC to confirm	Row Control Tower 2 filled to the sensor => no or reduced placement. Drilling error! Working speed too fast at too many closed valves (too much seed / fertiliser per second). Usually occurs in Double Row Space mode.	• Do not switch off the fan! • If the fan is running, open the valves manually and empty the tower. • Check whether valves open. • Retry at reduced speed or reduced placing quantity once the tower has been emptied again. Metering unit target speed at RowControl approx. 10 rpm.	3 successive acoustic signals
(210-1) estro (210-2)	**W**	WorkLight Pro: Wire break	Drill – since version 10.09 	Maestro – since version 10.09 		0 sec.	not necessary	No headlight is detected on the module output. Cable break (cable damaged)	• Inspect cabling. Plug affected headlight group on other output and check again. • If this output also produces a cable break message with the same headlight group, the lines to the headlights or headlight are defective. If the error does not occur at this output, the previously connected output is defective (check module).	Single acoustic signal
(211-1) estro (211-2)	**W**	WorkLight Pro: Short-circuit	Drill – since version 10.09 	Maestro – since version 10.09 		0 sec.	not necessary	Current between Pins 1 and 2 on module output too high. Short-circuit (hardware shut-off) (Cable damaged)	• Inspect cabling. Plug affected headlight group on other output and check again. • Replace headlight in case of repeated occurrence.	Single acoustic signal
(212-1) estro (212-2)	**W**	WorkLight Pro: Electronics voltage too low	Drill – since version 10.09 	Maestro – since version 10.09 		0 sec.	Not possible until error has been rectified	Electronics voltage too low. Module no longer operable. Headlight groups are switched off.	• Inspect cabling. Inspect the supply voltage on the tractor. • Optimal operating range 10-16 V.	Single acoustic signal
(213-1) estro (213-2)	**W**	WorkLight Pro: Electronics voltage too high	Drill – since version 10.09 	Maestro – since version 10.09 		0 sec.	Not possible until error has been rectified	Electronic voltage too high. Module no longer operable. Headlight groups are switched off. The headlights come on again once the voltage is again in the normal range.	• Inspect cabling. Inspect the supply voltage on the tractor. Optimal operating range 10-16 V.	Single acoustic signal
(214-1) estro (214-2)	**W**	WorkLight Pro: Job computer timeout	Drill – since version 10.09 	Maestro – since version 10.09 		0 sec.	not necessary	Job computer no longer responds to the WorkLight Pro module (Timeout).	• Restart the system. • Check the wiring between job computer and WorkLight Pro module. • Check module.	Single acoustic signal
(215-1) estro (215-2)	**W**	WorkLight Pro: Parameters reset to default	Drill – since version 10.09 	Maestro – since version 10.09 		0 sec.	not necessary	All parameters were set to default.	• Restart the system. • Check system for current software version. • Check function of system. • Reinstall current software bundle.	Single acoustic signal
(217-1) estro (217-2)	**W**	WorkLight Pro: Power voltage too low	Drill – since version 10.09 	Maestro – since version 10.09 		0 sec.	Not possible until error has been rectified	Power voltage too low.	• Check power supply on module. Optimal operating range 10-16 V. • Check tractor supply. • Check wiring to module (power supply via job computer (Isobus) or separate cable).	Single acoustic signal
(218-1) estro (218-2)	**W**	WorkLight Pro: Power voltage too high	Drill – since version 10.09 	Maestro – since version 10.09 		0 sec.	Not possible until error has been rectified	Power voltage too high. Module no longer operable. Headlight groups are switched off.	• Check power supply on module. Optimal operating range 10-16 V. • Check tractor supply. • Check wiring to module (power supply via job computer (Isobus) or separate cable).	Single acoustic signal
(219-1) estro (219-2)	**W**	WorkLight Pro: No electronics voltage	Drill – since version 10.09 	Maestro – since version 10.09 		0 sec.	Not possible until error has been rectified	No electronics voltage on WorkLight Pro module. All headlight groups were switched off.	• Inspect cabling. • Replace the WorkLight Pro module if electronics voltage is present and bus is connected.	Single acoustic signal

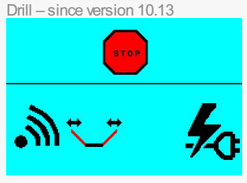
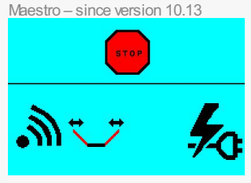
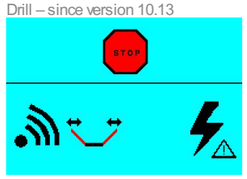
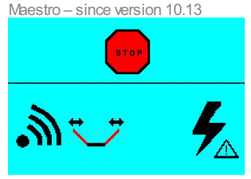
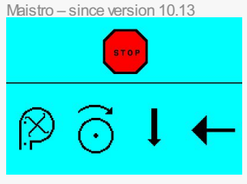
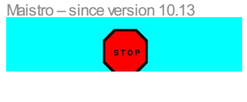
(220-1) estro (220-2)	W	WorkLight Pro: Watchdog error	Drill – since version 10.09 	Maestro – since version 10.09 	0 sec.	Not possible until error has been rectified	Internal software error	• Restart system. Inspect system for correct cabling and BUS error. • Replace WorkLight Pro in case of repeated occurrence.	Single acoustic signal
(221-1) estro (221-2)	W	WorkLight Pro: Parameter limits	Drill – since version 10.09 	Maestro – since version 10.09 	0 sec.	Not possible until error has been rectified	Parameter set outside permissible parameter limit.	• Set standard parameter via Service Tool. • Contact HORSCH Service.	Single acoustic signal
(222-1) estro (222-2)	W	WorkLight Pro: Duplicate addressing	Drill – since version 10.09 	Maestro – since version 10.09 	0 sec.	Not possible until error has been rectified	More than one WorkLight Pro module detected on the bus.	• Inspect cabling. • In case of more than one WorkLight Pro, unplug one of them. • System restart.	Single acoustic signal
(223-1) estro (223-2)	W	WorkLight Pro: Loose connection	Drill – since version 10.09 	Maestro – since version 10.09 	0 sec.	Not possible until error has been rectified	Power supply to WorkLight Pro module temporarily interrupted. Headlights come on again when the power supply is available.	• Check cabling.	Single acoustic signal
(224-1) estro (224-2)	W	WorkLight Pro: Error overflow	Drill – since version 10.09 	Maestro – since version 10.09 	0 sec.	Not possible until error has been rectified	Not all error messages could be transmitted to the job computer.	• Restart system. • Inspect system for correct cabling and BUS error. • Replace WorkLight Pro module in case of repeated occurrence.	Single acoustic signal
(225-1) estro (225-2)	W	WorkLight Pro: Update error	Drill – since version 10.09 	Maestro – since version 10.09 	0 sec.	Not possible until error has been rectified	Unable to save parameters correctly during updating.	• Restart system. • Repeat the update. • Contact HORSCH Service in case of repeated occurrence.	Single acoustic signal
(226-1) estro (226-2)	W	WorkLight Pro: CRC update error	Drill – since version 10.09 	Maestro – since version 10.09 	0 sec.	Not possible until error has been rectified	Unable to save parameters correctly during updating.	• Restart system. • Repeat the update. • Contact HORSCH Service in case of repeated occurrence.	Single acoustic signal
(227-1) estro (227-2)	W	WorkLight Pro: Output current too high	Drill – since version 10.09 	Maestro – since version 10.09 	0 sec.	Not possible until error has been rectified	Current output on the indicated WorkLight Pro output too high for an extended period (>12.5 A). Affected output is disabled.	• Observe max. WorkLight Pro output current (12 A). • In case of headlight groups, unplug one or several headlights or plug onto available output. • Then retry again.	Single acoustic signal
(228-1) estro (228-2)	W	WorkLight Pro: Total current too high	Drill – since version 10.09 	Maestro – since version 10.09 	0 sec.	Not possible until error has been rectified	Total current consumption of the WorkLight Pro too high for an extended period (>25 A). All headlight groups were switched off.	• Observe max. WorkLight Pro total current (25 A). • Switch off one headlight group and try again.	Single acoustic signal
(229-1)	A	AutoLine: Direction of travel does not match the tram line rhythm	Drill – since version 10.09 		0 sec.	Press ESC to confirm	Travel against the actual direction of travel of the current track took place in automatic mode. The direction of travel is no longer corrected by disabling the automatic function. As a result, the tram lines are switched incorrectly after the next track change.	• Start the next track from the other side of the field to restore the original direction of travel.	3 successive acoustic signals
(230-1)	A	Coulter pressure computer failed	Drill – since version 10.10 		60 sec.	Press ESC to confirm	Connection to coulter pressure computer is interrupted.	• Check the plug-and-socket connection and wiring to the slave job computer “Slave extension” • Check the SW version of the Slave job computer “Slave extension” in Diagnostics: Electrical coulter pressure for small drills require SW 13.05 or higher.	3 successive acoustic signals
(231-1)	W	Electrical coulter pressure small drill: sensor lowering line wire break	Drill – since version 10.10 			not possible until error has been rectified	The sensor provides a value lower than 2 mA.	• Check wiring to sensor.	single acoustic signal
		Electrical coulter pressure small	Drill – since version 10.10			not possible until			single

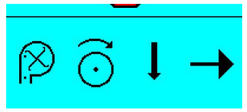
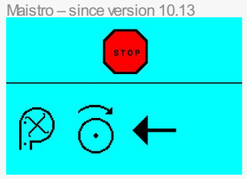
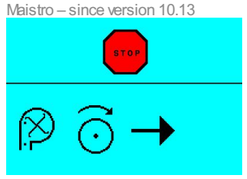
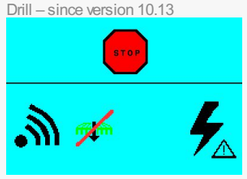
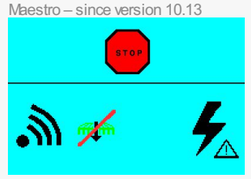
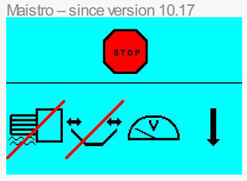
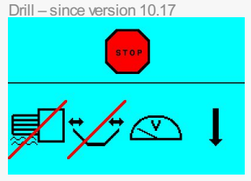
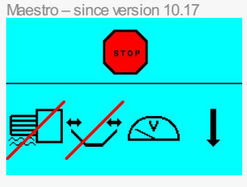
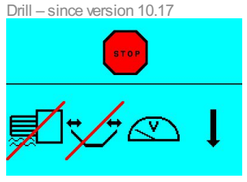
(232-1)	**W**	drill: sensor lowering line short-circuit				error has been rectified	The sensor provides a value larger than 22 mA.	• Inspect cabling to sensor.	acoustic signal
(233-1) estro (233-2)	**A**	Liquid fertiliser hopper empty Pump protection active	Drill – since version 10.10 	Maestro – since version 10.10 	5 sec.	Press ESC to confirm	The liquid fertiliser hopper content is below the lower empty hopper alarm. Liquid fertiliser placement was stopped.	• To continue placing liquid fertiliser: Refill hopper. • To continue sowing without liquid fertiliser: set target value to 0 litre per hectare or deactivate liquid fertiliser temporarily. • The residual quantity must be drained manually on the machine.	3 successive acoustic signals
(234-1) estro (234-2)	**W**	Liquid fertiliser hopper empty Pump protection active	Drill – since version 10.10 	Maestro – since version 10.10 		not possible until error has been rectified	The liquid fertiliser hopper content is below the lower empty hopper alarm. Liquid fertiliser placement was stopped.	• To continue placing liquid fertiliser: Refill hopper. • To continue sowing without liquid fertiliser: set target value to 0 litre per hectare or deactivate liquid fertiliser temporarily. • The residual quantity must be drained manually on the machine.	single acoustic signal
estro (235-2)	**W**	Row module: motor load too high	Maestro – since version 10.10 			not possible until error has been rectified	Motor load to high over extended period. Motor does not switch off.	• Check motor load. • Check easy movement of the metering unit. • Check the securing cotter pin, motor shaft and metering disc spacing according to operating instructions.	single acoustic signal
estro (236-2)	**A**	Row module: motor blocked	Maestro – since version 10.10 			Press ESC to confirm	Motor moves very sluggishly for a longer period or is blocked.	• Check motor load. • Check easy movement of the metering unit. • Check the securing cotter pin, motor shaft and metering disc spacing according to operating instructions. • Acknowledge error message, motor restarts.	3 successive acoustic signals
estro (237-2)	**W**	Row module: minimum rotational speed has been reached	Maestro – since version 10.10 			not possible until error has been rectified	The advancing speed is too low for the target plant spacing that has been set. The metering motor is unable to maintain the demanded rotary speed. The nominal plant distance can thus not be maintained.	• Increase driving speed. • Select correct metering disc. • Check the crop parameter settings (e.g. grains per revolution). • Increase target application rate.	single acoustic signal
(238-1) estro (238-2)	**A**	Half-width flap: high current increase check LINAK flap	Drill – since version 10.11 	Maestro – since version 10.11 	0 sec.	Press ESC to confirm	Blockade of the half-width motor. It is shut off for protection.	• After confirmation the flap will be retracted. Then the reference position is accessed again. • If this occurs repeatedly: ◦ Check half-width flap for blockades or damages. ◦ In case of a blockade: remove it. ◦ In case of a damage: replace flap. ◦ After the problem has been solved: check correct functioning of the half-width flap.	3 successive acoustic signals
(239-1) estro (239-2)	**A**	LINAK position signal too high. Short circuit	Drill – since version 10.11 	Maestro – since version 10.11 	5 sec.	Press ESC to confirm	Voltage of the position signal too high (>5,0V). Short circuit (cable damaged).	• Check cabling.	3 successive acoustic signals
(240-1) estro (240-2)	**A**	Startup Error				Press ESC to confirm	Error in the startup of the processors within the job computer	• Perform a system restart. • Update job computer once more. • In case of repeated occurrence, replace the job computer and contact HORSCH Service. Send faulty job computer to Horsch.	single audible signal
(241-1) estro (241-2)	**A**	Configuration not found				Press ESC to confirm	Internal software error. Two functions use the same pin.	• Restart the system. • Check configuration. • In case of repeated occurrence, read the configuration from the master job computer using the Service Tool and contact HORSCH Service.	single audible signal
(242-1)		Duplicate use of				Press ESC to	Internal software error. Two functions use the same	• Restart the system. • Check configuration.	single

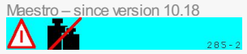
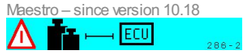
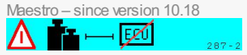
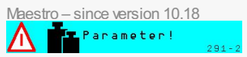
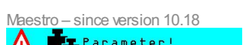
(242-1) estro (242-2)	**A**	Duplicate use of IOs	Press ESC to confirm	Internal software error. Two functions use the same pin.	• In case of repeated occurrence, read the configuration from the master job computer using the Service Tool and contact HORSCH Service.	audible signal
(243-1) estro (243-2)	**A**	Different software on slave computers	Press ESC to confirm	Panther/Partner/RowControl/Drill M: Slave and master job computers cannot communicate correctly with each other as they have different software versions.	• Restart the system. • Update all machine units with the same bundle. All master job computers must have the same software version. • Contact HORSCH Service in case of repeated occurrence.	single audible signal
(244-1) estro (244-2)	**A**	Hardware initialisation fault	Press ESC to confirm	BasisLIB returns error when initialising the hardware; the function of at least one of the ports/pins cannot be ensured	• Restart the system. • Replace the master job computer. • If replacing the job computer does not correct the fault, then read the configuration from the master job computer using the Service Tool and contact HORSCH Service.	Single acoustic signal
(245-1) estro (245-2)	**A**	Bus error CAN0	Press ESC to confirm	Partner configures as slave through additional hopper: IsoBus load or internal system load too high for flawless operation.	• Restart the system. • In case of repeated occurrence, read the configuration from the master job computer using the Service Tool and contact HORSCH Service. For an exact analysis, a trace from the IsoBus (Can0) (PCan View/Explorer or similar) is required.	single audible signal
(246-1) estro (246-2)	**A**	Bus error CAN1	Press ESC to confirm	Panther/RowControl/Drill M machine types: SubBus load or internal system load too high for flawless operation.	• Restart the system. • In case of repeated occurrence, read the configuration from the master job computer using the Service Tool and contact HORSCH Service. • For an exact analysis, a trace from the IsoBus (Can0) and SubBus (Can1) (PCan View/Explorer or similar) is required.	single audible signal
stro (247-3) (247-1) estro (247-2)	**A**	internal error	Press ESC to confirm	• Internal software error. The additional number in the alarm indicates the exact error location of the software: ◦ 1 = Internal software error ◦ 2 = Internal software error ◦ 3 = Internal software error ◦ 4 = DDOP (device description) is rejected by the TaskController in the terminal	• Restart the system. • For error location 4, check the TaskController settings in the terminal or test another terminal. • For error locations 1, 2 and 3: In case of repeated occurrence, read the configuration from the master job computer using the Service Tool and contact HORSCH Service. • For an exact analysis, a trace from the IsoBus (PCan View/Explorer or similar) is required.	single audible signal
stro (248-3) (248-1) estro (248-2)	**A**	Basis Lib error	Press ESC to confirm	• BasisLib error displayed on the terminal only in Beta software versions, e.g.: ◦ IO voltage check at startup ◦ Current checks ◦ e.g.: 0x1E8 - Voltage or current problem • Additional hexadecimal code in the alarm indicates the exact error location of the software. This is required for a more exact analysis.	• Update machine to release version. The error is not displayed in release software versions. • Leave the machine de-energised for a longer period when restarting. e.g. 0x1E8 can occur if the machine has not yet been de-energised internally. • If error 0x1E8 occurs directly after a restart, it can be ignored. • Send a photo of the error to Horsch Service for precise analysis.	single acoustic signal
stro (249-3) (249-1)	**A**	IsoBus defective or overloaded	Press ESC to confirm	The internal buffer for IsoBus messages is overflowing (1000 messages could not be sent). The IsoBus is faulty or has a very high bus load	• Restart the system. • Check the IsoBus • * Change the terminal or tractor. Use a base station if possible. • * If this corrects the error, then the previous terminal/tractor caused the error. • * If the error is still present, check the wiring in the HORSCH machine. • Check the wiring from the IsoBus connector to the master job computer. • Attention: Some machines have additional systems (SmartCan/liquid monitoring/IsoBus scales/etc.) that are also connected to the IsoBus. Check the wiring to these systems as well. • If no external damage is recognisable, then remove devices	single audible signal

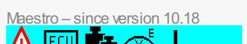
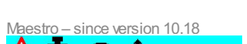
estro (249-2)							(over 90%) over a longer period of time. This is why our job computer cannot send its messages for UT, TC and data logger.	• If no external damage is recognisable, then remove devices from the IsoBus one by one and observe whether this rectifies the fault. Then do the same with the wiring to the participants. • For experts: ◦ In the Service Tool there is a status LED at the bottom left which displays the bus status. ◦ * Green = no bus errors ◦ * Red/Yellow = bus error ◦ PCan View can also be used for more precise diagnostics to recognise when the bus is faulty and when the fault can be rectified by disconnecting it.	signal
(260-1) estro (260-2)	A	Half-width flap: LINAK position signal too low. Cable break	Drill – since version 10.11  	Maestro – since version 10.11  	5 sec.	Press ESC to confirm	Voltage of the position signal too low (< 250mV). Cable break (cable damaged).	• Check cabling.	3 successive acoustic signals
(261-1) estro (261-2)	A	Check half-width flap	Drill – since version 10.11  	Maestro – since version 10.11  	0 sec.	Press ESC to confirm	Occurs in case of a blockade of the half-width flap after having started the motor.	• Explicit information by pop-up. Check half-width flap for damages and remove blockade. In case of damages: replace or repair half-width. It then is obligatory to check the teach values and the positions of the half-width flap. The main switch for the seeding function has to be reactivated independently.	3 successive acoustic signals
estro (262-2)	A	Row module: Communication to job computer interrupted	Maestro – since version 10.12  		0 sec.	Press ESC to confirm	Messages from the job computer do not arrive at the module for several seconds.	• Restart the system. • Check the wiring between job computer and affected row module. • Check module.	3 successive acoustic signals
estro (263-2)	W	Row module: Sensor soiled	Maestro – since version 10.14  	Maestro – Versions 10.12 and 10.13  	0 sec.	not possible until error has been rectified	Downpipe sensor of the indicated row signals very strong soiling.	• Clean the sensor • Restart system. • Replace downpipe sensor if error occurs repeatedly.	Single acoustic signal
estro (264-2)	A	Check of row addressing: Sequence not correct	Maestro – since version 10.12  		0 sec.	Confirm with checkmark button	When checking row addressing, the correct number of configured rows was found The row modules are not connected in the addressed sequence.	• New addressing of the row modules must be performed. • Addressing starts by actuating the checkmark button.	none
estro (265-2)	A	Checking row addressing: duplicate addressing	Maestro – since version 10.12  		0 sec.	Confirm with checkmark button	When checking row addressing, the correct number of configured rows was found. At least two modules have the same address.	• New addressing of the row modules must be performed. • Addressing starts by actuating the checkmark button.	none
			Maestro – since version 10.12 					• Configuration is correct: Check the connection between the rows. If all row modules are connected correctly (if Extra Power is available, it must be connected), the electronics LED of the	

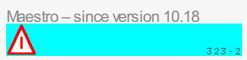
estro (266-2)	**A**	Checking row addressing: not enough rows	 Maestro – since version 10.12 		0 sec.	Confirm with cross, setting wrench or checkmark button	When checking row addressing it was detected that fewer rows are connected than have been configured. The number of configured rows is displayed next to the row symbol.	row module must light continuously. • If configuration is correct and the connection between the rows is correct, then perform addressing (press the checkmark button). • Configuration is not correct (machine was converted): Press the setting wrench button. Configure the correct number of rows. • If nothing is to be changed, press the cross button. The machine cannot be operated. The blue warning message indicates this fact.	none
estro (267-2)	**A**	Checking row addressing: faulty configuration	Maestro – since version 10.12 	Maestro – since version 10.12 	0 sec.	Confirm with cross or setting wrench button	When checking row addressing it was detected that more rows are connected than have been configured. The number of configured rows is displayed next to the row symbol.	• Configuration is not correct (machine was converted): Press the setting wrench button. Configure the number of rows correctly. • If nothing is to be changed, press the cross button. The machine cannot be operated. The blue warning message indicates this fact.	none
estro (268-2)	**W**	Checking row addressing: Timeout	Maestro – since version 10.12 		0 sec.	not possible until error has been rectified	One or several row modules have not responded while checking row addressing.	• Restart system. • Contact HORSCH Service in case of repeated occurrence.	Single acoustic signal
estro (269-2)	**W**	Checking row addressing: Connection between job computer and first row interrupted	Maestro – since version 10.12 		0 sec.	not possible until error has been rectified	When checking row addressing it was detected that the connection between job computer and first connected row is interrupted.	• Check wiring. • Restart system. • Inspect system for correct wiring and BUS errors.	Single acoustic signal
estro (270-2)	**W**	Checking row addressing: Connection between job computer and two rows interrupted	Maestro – since version 10.12 		0 sec.	not possible until error has been rectified	When checking row addressing it was detected that the connection between the two indicated rows is interrupted.	• Check wiring. • Restart system. • Inspect system for correct wiring and BUS errors.	Single acoustic signal
estro (271-2)	**W**	Check the row addressing: Can Enable short-circuit	Maestro – since version 10.12 		0 sec.	not possible until error has been rectified	When checking the row addressing, it was detected that there is a short-circuit between Can Enable (PIN 5 on the 6-pin AMP connector) and the operating voltage in the row bus.	• Do NOT address the module again! • Check the wiring on the modules. • Restart the system. • If the error still occurs, contact your HORSCH dealer. • Information for trained service staff: ◦ If readdressing, the two rows have the address "1". ◦ As a result EC-103 "Row module: Dual addressing" is displayed. EC-271 is no longer displayed. ◦ EC-266 "Checking the row addressing:: Not enough rows" is then displayed. ◦ The actual cause of the error (the short-circuit of CAN Enable) can no longer be diagnosed. ◦ Check the wiring (all 6-pin plug-and-socket connections in the row wiring loom). ◦ Unplug all row modules. ◦ With row 1 "IN" and "OUT" remain separated. ◦ From row 2 to x connect the "IN" connector with the "OUT" connector (bridging the row)	single audible signal

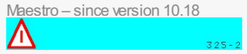
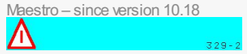
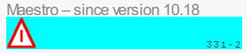
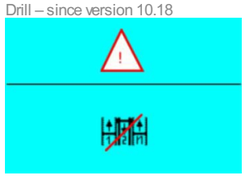
							connector (bridging the row). ○ Measure all connectors of row 1 "OUT" successively, starting with between Pin 1 (0V E) and Pin 5 (Can Enable). ○ (Subitem) Operating voltage may only be present on the "OUT" connector of the wiring loom of the first row between Pin 1 and Pin 5. ○ (Subitem) With all other 6-pin row wiring loom connectors no voltage may be present between Pin 1 and Pin 5 if no connection is made once between row 1 "OUT" and the measured row "IN" or "OUT". ○ Check the modules => Plug in all rows again. Disconnect the row 1 "IN" connector. All "OUT" or "IN" connectors of rows 2 to x must have 0 V between Pin 1 and Pin 5. ○ Replace modules defined as faulty. ○ Restart the system. ○ Inspect system for correct cabling and BUS error.	
estro (272-2)	**A**	Check the row addressing: Addressing not recommended	Maestro – since version 10.12 	0 sec.	confirm with checkmark or cross button	The row bus is checked for errors before manual row addressing is performed. Errors have been noted during this check.	• Manual addressing shall not be performed: Press the cross button. • Check the wiring. Now address again. • Should addressing be done in spite of the errors (not recommended): Press the checkmark button.	none
(273-1) estro (273-2)	**A**	Foldingpoti wire break	Drill – since version 10.13  Maestro – since version 10.13 		Press ESC to confirm	While automatic folding (folding in/unfolding) is active, the wing potentiometer signals a value smaller than 2 mA.	• Check the wiring. • Check the wing potentiometer. • If the wiring of the wing potentiometer is defective, fold in or unfold manually via diagnostic. Follow the notes in the operating instructions.	3 successive acoustic signals
(274-1) estro (274-2)	**A**	Wing potentiometer short-circuit	Drill – since version 10.13  Maestro – since version 10.13 		Press ESC to confirm	While automatic folding (folding in/unfolding) is active, the wing potentiometer signals a value greater than 22 mA.	• Check the wiring. • Check the wing potentiometer. • If the wiring of the wing potentiometer is defective, fold in or unfold manually via diagnostic. Follow the notes in the operating instructions.	3 successive acoustic signals
stro (275-3)	**A**	Rotary speed of the left drill shaft too low	Maistro – since version 10.13 	30 sec.	Press ESC to confirm	The speed of the left drill shaft is lower than the limit set in the configuration under rotary speed 1.	• Check the set limit under rotary speed 1 for correctness. • The working speed must possibly be increased. • Check the sensor. • If the sensor is defective or not installed, set the rotary speed 1 to 0. • For hydraulic drill shaft drive: ○ Check the function of the motor ○ Check the transmission ratio • For ground drive: ○ Check the slip of the drive wheel ○ Check the transmission ratio.	3 successive acoustic signals
		Rotary speed of	Maistro – since version 10.13 				• Check the set limit under rotary speed 2 for correctness. • The working speed must possibly be increased. • Check the sensor. • If the sensor is defective or not installed, set the rotary speed 2 to 0.	3 successive

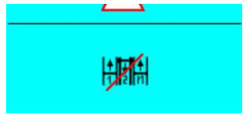
stro (276-3)	**A**	Rotary speed of the right drill shaft too low		30 sec.	Press ESC to confirm	The speed of the right drill shaft is lower than the limit set in the configuration under rotary speed 2.	• For hydraulic drill shaft drive: ◦ Check the function of the motor ◦ Check the transmission ratio • For ground drive: ◦ Check the slip of the drive wheel ◦ Check the transmission ratio.	3 successive acoustic signals
stro (277-3)	**A**	Rotary speed of the left drill shaft too low, deviation from the target value	Maistro – since version 10.13 	30 sec.	Press ESC to confirm	Drill shaft monitoring is activated. The left drill shaft speed deviates more than the set limit (shaft speed in the configuration) from the calculated target speed (calculated by the speed/working width per row/target value and seeds per revolution).	• Check the set limit for correctness. • Check the sensor. • For hydraulic drill shaft drive: ◦ Check the function of the motor ◦ Check the transmission ratio • For ground drive: ◦ Check the slip of the drive wheel ◦ Check the transmission ratio.	3 successive acoustic signals
stro (278-3)	**A**	Rotary speed of the right drill shaft too low, deviation from the target value	Maistro – since version 10.13 	30 sec.	Press ESC to confirm	Drill shaft monitoring is activated. The right drill shaft speed deviates more than the set limit (shaft speed in the configuration) from the calculated target speed (calculated by the speed/working width per row/target value and seeds per revolution).	• Check the set limit for correctness. • Check the sensor. • For hydraulic drill shaft drive: ◦ Check the function of the motor ◦ Check the transmission ratio • For ground drive: ◦ Check the slip of the drive wheel ◦ Check the transmission ratio.	3 successive acoustic signals
(281-1) estro (281-2)	**A**	Wing potentiometer no work possible	Drill – since version 10.13  Maestro – since version 10.13 	30 sec.	Press ESC to confirm	The wing potentiometer signals a value larger than 22 mA. The machine never has a working signal because of this high value. The machine can no longer drill.	• Unplug the wing potentiometer and restart the system. • Drilling can be resumed if errors are not longer displayed. The wing potentiometer must be replaced. • The machine has therefore always a working signal. • The machine can only folded via diagnostic now. • If errors continue to be displayed, there is a fault in the wiring loom or the job computer. • Set "Use potentiometer" (use wing potentiometer) in the teach screen of the configuration to "No". • The machine has therefore always a working signal. • The machine can only folded via diagnostic now.	3 successive acoustic signals
estro (282-2)	**W**	Row module: statistics cannot be updated	Maestro – since version 10.16 	not possible until the error has been rectified		If implausible grains are detected by the row sensor, then these are not used for the statistics (missed/double seeds and coefficient of variation). If the sensor reports implausible grains over a longer period of time (approx. 5 sec), the statistics cannot be recalculated (updated) and this error EC-282 is displayed.	• If the error occurs repeatedly on certain or individual rows, check the singulation settings in these rows (seed quality / under- or overpressure / sensor contamination / etc.) • If the error occurs uniformly across all rows, switch to one of the other row displays (quantity view or seed flow view). No reasonable detailed view can be calculated/displayed for the current seed parameters.	single audible signal
stro (283-3) (283-1) estro (283-2)	**A**	Master job computer: Power voltage too low	Maistro – since version 10.17  Drill – since version 10.17  Maestro – since version 10.17 	Press ESC to confirm	• Too low a power voltage was measured at the input of the subscriber master. • Malfunction of the master and subsequent slaves or modules possible, as the master power voltage is forwarded to other slaves and modules depending on the type of wiring: ◦ Valves for e.g. folding are not actuated or are actuated with too little voltage ◦ Metering motors are not activated or have too little power.	• Check the wiring. • Check the Extrapower wiring if installed. • Check supply voltage. • Optimal operating range 11–16 V on master input.	single audible signal
(284-1)	**A**	Product/Tower Slave: Power voltage too low	Drill – since version 10.17 	Press ESC to confirm	• Too low a power voltage was measured at the input of the slave. Potential faulty behaviour of the slave: ◦ Product Slave: Metering motors are not activated or have too little power. ◦ Tower Slave: Row Control flaps are not selected.	• Check the wiring. • Check the Extrapower wiring if installed. • Check supply voltage. • Optimal operating range 10–16 V on the slave.	3 successive acoustic signals

estro (285-2)	**W**	Weighing module has failed	Maestro – since version 10.18 		not possible until the error has been rectified	Communication / supply to the weighing module is interrupted or module is defective.	• Restart the system. • Check the wiring. • Address manually in software diagnostics. • Replace weighing module if error occurs repeatedly.	single audible signal
estro (286-2)	**W**	Weighing module: Communication faulty	Maestro – since version 10.18 		not possible until the error has been rectified	Communication / supply to the weighing module is interrupted or module is defective.	• Restart the system. • Check the wiring. • Replace weighing module if error occurs repeatedly.	single audible signal
estro (287-2)	**W**	Weighing module: Communication to job computer interrupted	Maestro – since version 10.18 		not possible until the error has been rectified	Communication / supply to the weighing module is interrupted or module is defective.	• Restart the system. • Check the wiring. • Replace weighing module if error occurs repeatedly.	single audible signal
estro (288-2)	**W**	Weighing module: Communication faulty	Maestro – since version 10.18 		not possible until the error has been rectified	Communication / supply to the weighing module is interrupted or module is defective.	• Restart the system. • Check the wiring. • Replace weighing module if error occurs repeatedly.	single audible signal
estro (289-2)	**W**	Weighing module: Data invalid	Maestro – since version 10.18 		not possible until the error has been rectified	Job computer sends invalid configuration for the LCEM / CAN fault.	• Restart the system. • Contact HORSCH Service in case of repeated occurrence.	single audible signal
estro (290-2)	**W**	Weighing module: Data invalid	Maestro – since version 10.18 		not possible until the error has been rectified	Job computer sends invalid configuration for the LCEM / CAN fault.	• Restart the system. • Contact HORSCH Service in case of repeated occurrence.	single audible signal
estro (291-2)	**W**	Weighing module: Data invalid	Maestro – since version 10.18 		not possible until the error has been rectified	Job computer sends invalid configuration for the LCEM / CAN fault.	• Restart the system. • Contact HORSCH Service in case of repeated occurrence.	single audible signal
estro (292-2)	**W**	Weighing module: Watchdog error	Maestro – since version 10.18 		not possible until the error has been rectified	Unexpected restart of electronic processor in weighing module.	• Restart the system. • Contact HORSCH Service in case of repeated occurrence.	single audible signal
estro (293-2)	**W**	Weighing module overheated	Maestro – since version 10.18 		not possible until the error has been rectified	Weighing module has reached its temperature limit. Weighing module switches off automatically to avoid damage caused by overheating.	• Serves the purpose of information. • Cooling by switching off. • Replace weighing module if error occurs repeatedly.	single audible signal
estro (294-2)	**W**	Weighing module: Data invalid	Maestro – since version 10.18 		not possible until the error has been rectified	Weighing module defective	• Replace weighing module.	single audible signal
estro (295-2)	**W**	Weighing module: Power voltage too low	Maestro – since version 10.18 		not possible until the error has been rectified	Power voltage too low.	• Check power supply on module. Optimal operating range 10-16 V. • Check tractor supply. • Check wiring to module (power supply via job computer (Isobus) or separate cable).	single audible signal
estro (296-2)	**W**	Weighing module: internal measuring voltage too low	Maestro – since version 10.18		not possible until the error has been rectified	Defect on weighing module.	• Restart the system. • Replace weighing module if error occurs repeatedly.	single audible signal
estro (297-2)	**W**	Weighing module: Measuring cell voltage too low	Maestro – since version 10.18		not possible until the error has been rectified	Defect on weighing module. Defect of a measuring cell. Measuring cell supply short-circuit.	• Restart the system. • Check wiring and measuring cells. • Replace weighing module or measuring cells if error occurs repeatedly.	single audible signal

estro (298-2)	**W**	Weighing module: Measuring cell voltage too low	Maestro – since version 10.18 		not possible until the error has been rectified	Weighing module configured incorrectly or defective	• Contact HORSCH Service	single audible signal
estro (299-2)	**W**	Weighing module: Measuring cell voltage too low	Maestro – since version 10.18 		not possible until the error has been rectified	Weighing module configured incorrectly or defective	• Contact HORSCH Service	single audible signal
estro (300-2)	**W**	Weighing module: Power voltage too low	Maestro – since version 10.18 		not possible until the error has been rectified	Power voltage too low.	• Check power supply on module. Optimal operating range 10-16 V. • Check tractor supply. • Check wiring to module (power supply via job computer (Isobus) or separate cable).	single audible signal
estro (301-2)	**W**	Weighing module: internal measuring voltage too low	Maestro – since version 10.18 		not possible until the error has been rectified	Defect on weighing module.	• Restart the system. • Replace weighing module if error occurs repeatedly.	single audible signal
estro (302-2)	**W**	Weighing module: Measuring cell voltage too low	Maestro – since version 10.18 		not possible until the error has been rectified	Defect on weighing module. Defect of a measuring cell. Measuring cell supply short-circuit.	• Restart the system. • Check wiring and measuring cells. • Replace weighing module or measuring cells if error occurs repeatedly.	single audible signal
estro (303-2)	**W**	Weighing module: Measuring cell voltage too low	Maestro – since version 10.18 		not possible until the error has been rectified	Weighing module configured incorrectly or defective	• Contact HORSCH Service	single audible signal
estro (304-2)	**W**	Weighing module: Measuring cell voltage too low	Maestro – since version 10.18 		not possible until the error has been rectified	Weighing module configured incorrectly or defective	• Contact HORSCH Service	single audible signal
estro (305-2)	**W**	Weighing module: Power voltage too high	Maestro – since version 10.18 		not possible until the error has been rectified	Power voltage too high.	• Check power supply on module. Optimal operating range 10-16 V. • Check tractor supply. • Check wiring to module (power supply via job computer (Isobus) or separate cable).	single audible signal
estro (306-2)	**W**	Weighing module: internal measuring voltage too high	Maestro – since version 10.18 		not possible until the error has been rectified	Faulty configuration. Defective weighing module.	• Restart the system. • Replace weighing module if error occurs repeatedly. • Contact HORSCH Service.	single audible signal
estro (307-2)	**W**	Weighing module: Measuring cell voltage too high	Maestro – since version 10.18 		not possible until the error has been rectified	Faulty configuration. Defective weighing module.	• Restart the system. • Replace weighing module if error occurs repeatedly. • Contact HORSCH Service.	single audible signal
estro (308-2)	**W**	Weighing module: Measuring cell voltage too high	Maestro – since version 10.18 		not possible until the error has been rectified	Weighing module configured incorrectly or defective	• Contact HORSCH Service	single audible signal
estro (309-2)	**W**	Weighing module: Measuring cell voltage too high	Maestro – since version 10.18 		not possible until the error has been rectified	Weighing module configured incorrectly or defective	• Contact HORSCH Service	single audible signal
estro (310-2)	**W**	Weighing module: Power voltage too high	Maestro – since version 10.18 		not possible until the error has been rectified	Power voltage too high.	• Check power supply on module. Optimal operating range 10-16 V. • Check tractor supply. • Check wiring to module (power supply via job computer (Isobus) or separate cable).	single audible signal

estro (311-2)	**W**	Weighing module: internal measuring voltage too high	Maestro – since version 10.18 	not possible until the error has been rectified	Faulty configuration. Defective weighing module.	• Restart the system. • Replace weighing module if error occurs repeatedly. • Contact HORSCH Service.	single audible signal
estro (312-2)	**W**	Weighing module: Measuring cell voltage too high	Maestro – since version 10.18 	not possible until the error has been rectified	Faulty configuration. Defective weighing module.	• Restart the system. • Replace weighing module if occurs repeatedly. • Contact HORSCH Service.	single audible signal
estro (313-2)	**W**	Weighing module: Measuring cell voltage too high	Maestro – since version 10.18 	not possible until the error has been rectified	Weighing module configured incorrectly or defective	• Contact HORSCH Service	single audible signal
estro (314-2)	**W**	Weighing module: Measuring cell voltage too high	Maestro – since version 10.18 	not possible until the error has been rectified	Weighing module configured incorrectly or defective	• Contact HORSCH Service	single audible signal
estro (315-2)	**W**	Weighing module: CAN BUS error	Maestro – since version 10.18 	not possible until the error has been rectified	Communication between LCEM and the connected components on the CAN BUS is impaired.	• Restart the system. • Check or replace cables and plug-and-socket connection (bus termination correct?). • Address again manually in software diagnostics.	single audible signal
estro (316-2)	**W**	Weighing module: CAN BUS error	Maestro – since version 10.18 	not possible until the error has been rectified	Communication between LCEM and the connected components on the CAN BUS is impaired.	• Restart the system. • Check or replace cables and plug-and-socket connection (bus termination correct?). • Address again manually in software diagnostics.	single audible signal
estro (317-2)	**W**	Weighing module: CAN BUS error	Maestro – since version 10.18 	not possible until the error has been rectified	Communication between LCEM and the connected components on the CAN BUS is significantly impaired. Module switches off CAN connection.	• Restart the system. • Check or replace cables and plug-and-socket connection (bus termination correct?). • Address again manually in software diagnostics.	single audible signal
estro (318-2)	**W**	Weighing module: CAN memory full	Maestro – since version 10.18 	not possible until the error has been rectified	Overflow of receiving buffer of weighing module.	• Restart the system. • Contact HORSCH Service in case of repeated occurrence.	single audible signal
estro (319-2)	**W**	Weighing module: CAN memory full	Maestro – since version 10.18 	not possible until the error has been rectified	Overflow of send buffer of weighing module.	• Restart the system. • Contact HORSCH Service in case of repeated occurrence.	single audible signal
estro (320-2)	**W**	Weighing module: CAN communication duplicate addressing	Maestro – since version 10.18 	not possible until the error has been rectified	Addressing of modules invalid.	• Check system for correct wiring. • Address again manually in software diagnostics.	single audible signal
estro (321-2)	**W**	Weighing module: Measuring cell current too low	Maestro – since version 10.18 	not possible until the error has been rectified	Load cell defective. Wiring of load cell defective.	• Check load cell and replace if necessary. • Check wiring for wire break.	single audible signal
estro (322-2)	**W**	Weighing module: Measuring cell current too low	Maestro – since version 10.18 	not possible until the error has been rectified	Weighing module configured incorrectly or defective	• Contact HORSCH Service	single audible signal
estro (323-2)	**W**	Weighing module: Measuring cell current too low	Maestro – since version 10.18 	not possible until the error has been rectified	Weighing module configured incorrectly or defective	• Contact HORSCH Service	single audible signal
estro (324-2)	**W**	Weighing module: Measuring cell	Maestro – since version 10.18 	not possible until the error has been	Load cell defective. Wiring of load cell defective	• Check load cell and replace if necessary. • Check wiring of load cells for short-circuit	single audible

		current too high		rectified	Wiring of load cell defective.	• Check wiring of load cells for short-circuit.	signal
estro (325-2)	**W**	Weighing module: Measuring cell current too high	Maestro – since version 10.18 	not possible until the error has been rectified	Weighing module configured incorrectly or defective	• Contact HORSCH Service	single audible signal
estro (326-2)	**W**	Weighing module: Measuring cell current too high	Maestro – since version 10.18 	not possible until the error has been rectified	Weighing module configured incorrectly or defective	• Contact HORSCH Service	single audible signal
estro (327-2)	**W**	Weighing module: Measuring cell current too low	Maestro – since version 10.18 	not possible until the error has been rectified	Load cell defective. Wiring of load cell defective.	• Check load cell and replace if necessary. • Check wiring for wire break.	single audible signal
estro (328-2)	**W**	Weighing module: Measuring cell current too low	Maestro – since version 10.18 	not possible until the error has been rectified	Weighing module configured incorrectly or defective	• Contact HORSCH Service	single audible signal
estro (329-2)	**W**	Weighing module: Measuring cell current too low	Maestro – since version 10.18 	not possible until the error has been rectified	Weighing module configured incorrectly or defective	• Contact HORSCH Service	single audible signal
estro (330-2)	**W**	Weighing module: Measuring cell current too high	Maestro – since version 10.18 	not possible until the error has been rectified	Load cell defective. Wiring of load cell defective.	• Check load cell and replace if necessary. • Check wiring of load cells for short-circuit.	single audible signal
estro (331-2)	**W**	Weighing module: Measuring cell current too high	Maestro – since version 10.18 	not possible until the error has been rectified	Weighing module configured incorrectly or defective	• Contact HORSCH Service	single audible signal
estro (332-2)	**W**	Weighing module: Measuring cell current too high	Maestro – since version 10.18 	not possible until the error has been rectified	Weighing module configured incorrectly or defective	• Contact HORSCH Service	single audible signal
stro (333-3) (333-1) estro (333-2)	**A**	AutoLine: Settings TC incompatible!	Maistro – since version 10.18  Drill – since version 10.18  Maestro – since version 10.18 	Press ESC to confirm	The connected terminal cannot support the current Tramline/AutoLine settings as it only reports Tramline Control Level 1. => A tramlines rhythm with half a working width at the start of the field must not be set. This would be a function of Tramline Control Level 2.	• Check AutoLine/Tramline settings in our AutoLine screen: ◦ If AutoLine/Tramline Control is to be used with this terminal, then select tramline rhythm without half working width offset. ◦ Use terminal with at least Tramline Control Level 2. E.g. Horsch Touch 800/1200 or Horsch eos T10 or similar.	3 successive acoustic signals
stro (334-3) (334-1) estro (334-2)	**A**	AutoLine: Settings Machine incompatible!	Maistro – since version 10.18  Drill – since version 10.18  Maestro – since version 10.18 	press ESC to confirm	Error occurs if no tramlines are switched over the entire rhythm length or if the softkey for activating the tramlines is deactivated.	• Check tramline configuration. • Activate tramline main switch.	3 successive acoustic signals



Status: 2024-03-27