LEXION 8000 – 6000

Cab and Controls

Contents

Cab Overview

Ignition and Power

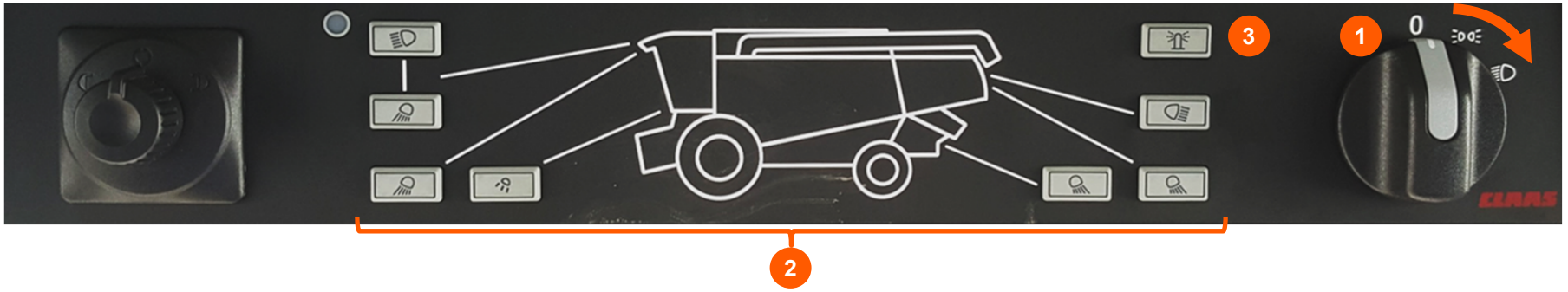
Feature:

1. Ignition
2. Printer (optional) / printer plug
3. 12 V cigarette lighter
4. Diagnostic port (OBD plug)
5. 12v / 15A socket
6. 12v / 30A socket
7. USB port

Lighting

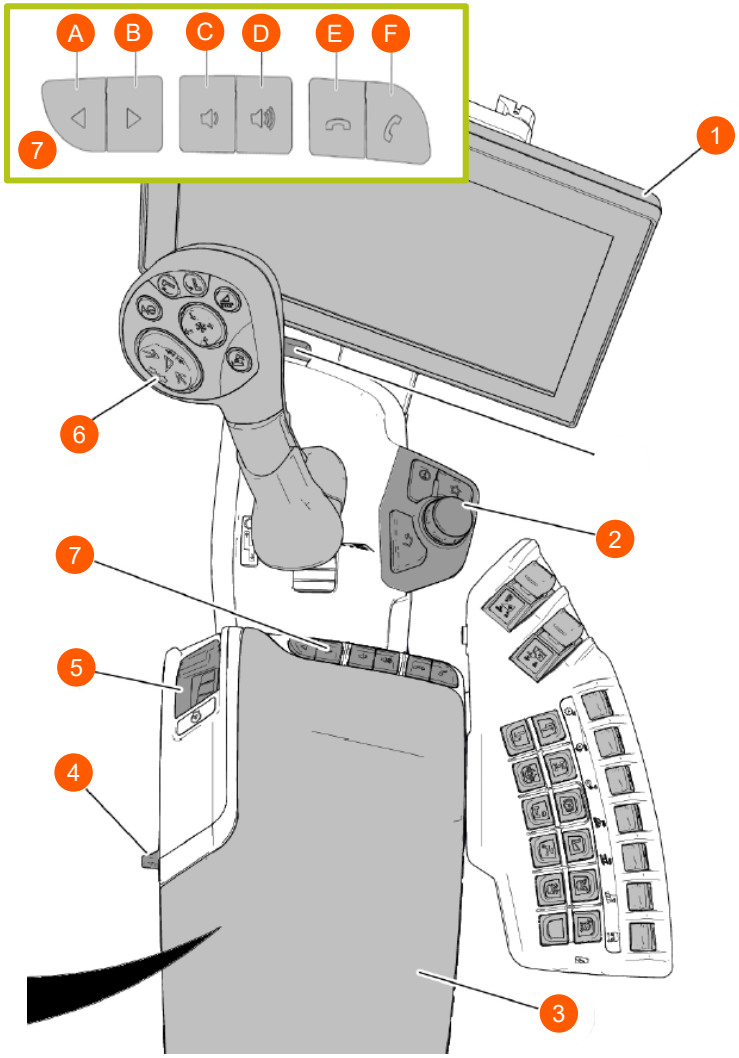
Procedure:

1. Turn on the cab lights, rotate the master light switch (1) to the third position to the right
2. With the master light switch on, the lights can be turned on / off individually by pressing their respective buttons (2)
3. Beacon lights (3) can be turned on / off regardless of dial position
4. Beacon light settings can be changed in CEBIS



Green indicates light is on

Multi-function Armrest



Features

1. CEBIS display
   - 12” color touchscreen
2. CEBIS control panel
3. Arm rest
4. Arm rest position control lever
5. Throttle switch
6. Multifunction Handle
7. Radio & Bluetooth controls
   A. Back button
   B. Forward button
   C. Volume lower button
   D. Volume raise button
   E. Cancel call button
   F. Accept call button

Armrest

Features

1. CMOTION ground speed control lever
   - Only factory joystick offer
2. CEBIS control panel
3. Processor adjustments
4. Throttle
5. Radio and phone controls

Processor control ID

Features

- Rocker switches provide direct access to processor features
  - Forward: Increase
  - Reverse: Decrease
- Replaces CEBIS rotary dial options

Controls

1. Feederhouse reverser
2. Feederhouse engagement
3. Processor engagement
4. Threshing drum speed
5. Concave clearance
6. Cleaning fan speed
7. Upper sieve gap
8. Lower sieve gap
9. Rotor speed
10. Rotor cover plates

CMOTION Handle control ID

Feature

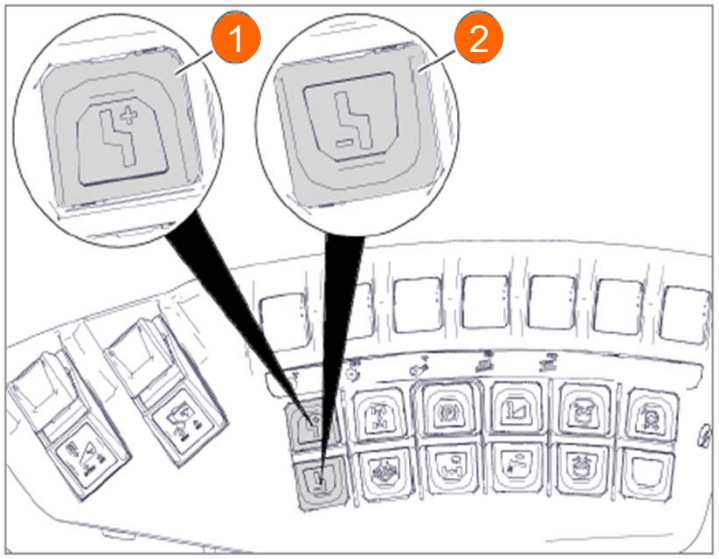
1. Reel lower
2. Reel forward
3. Reel raise
4. Reel back
5. HOTKEY menu down
6. HOTKEY menu up
7. Display HOTKEY menu
8. AUTO PILOT engagement
9. Raise feederhouse / front attachment
10. AUTO CONTOUR (CAC) height control
11. Lower feederhouse / front attachment
12. Pre-set height control
13. Header stop

Transmission gear select

Procedure:

1. Move the CMOTION handle to its neutral position
2. Place throttle in low / idle position
3. Tap (1) to change gear up (up shift)
4. Tap (2) to change gear down (down shift)

Do not apply brakes to shift

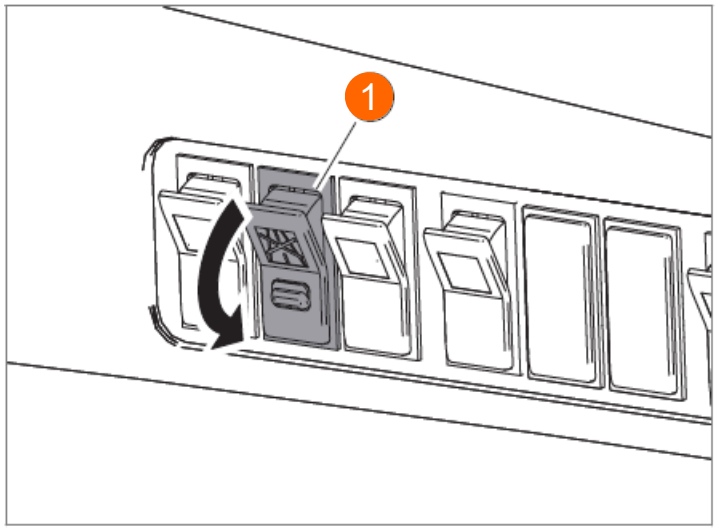


Road Travel Switch

Switching to Road travel mode

Procedure:

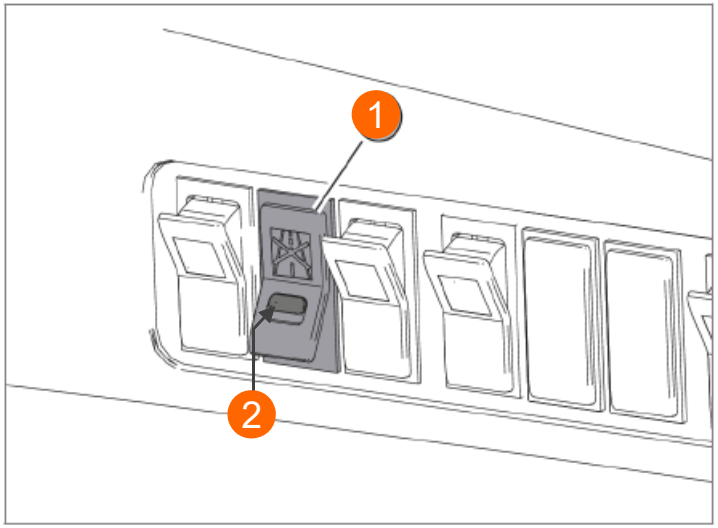
1. Rock the red Road Travel switch (1) down
   - Deactivates all hydraulics not related to ground drive
   - Enables full speed (25 mph) in second gear
   - Enables economy mode
     - Reduces engine rpm while at cruising speed = quieter, more efficient operation;
     - RPM's will increase as the engine senses load to maintain cruising speed



Switching from Road travel mode to Fieldwork mode

Procedure:

1. Push up on black tab (2) and rock the red Road Travel switch (1) forward



Processor & Feederhouse on / off

Turn on processor:

1. Set the engine speed to low throttle
2. Push down on yellow switch (1) and pull back to engage and listen for the processor to turn on
3. Switch will remain in up position while the processor is running

Turn off processor:

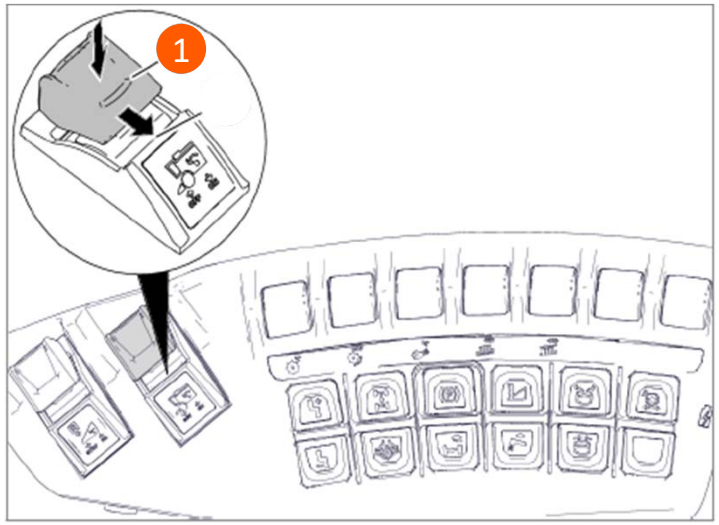
1. Push switch (1) forward to dis-engage, this will also turn off the feederhouse if running

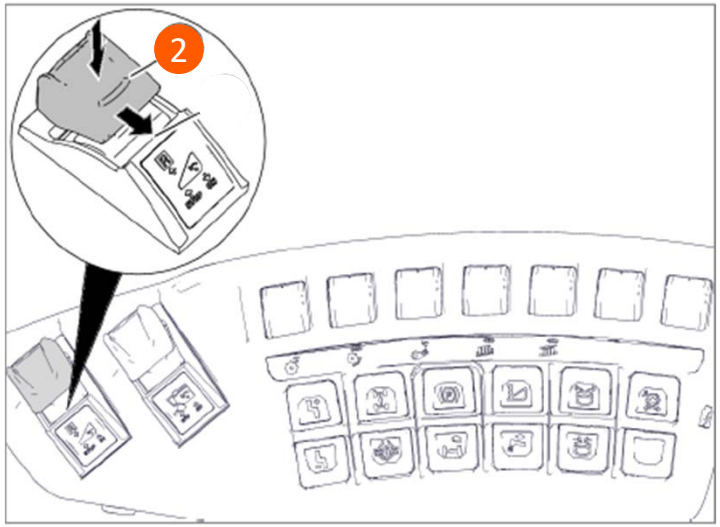
Feederhouse on

1. Processor must be engaged and the engine speed still set to low throttle
2. Push down on yellow switch (2) and pull back to engage and listen for / watch the header engage as feederhouse turns on
3. Switch will return to its neutral position

Turn off feederhouse

1. Push switch (2) forward to dis-engage





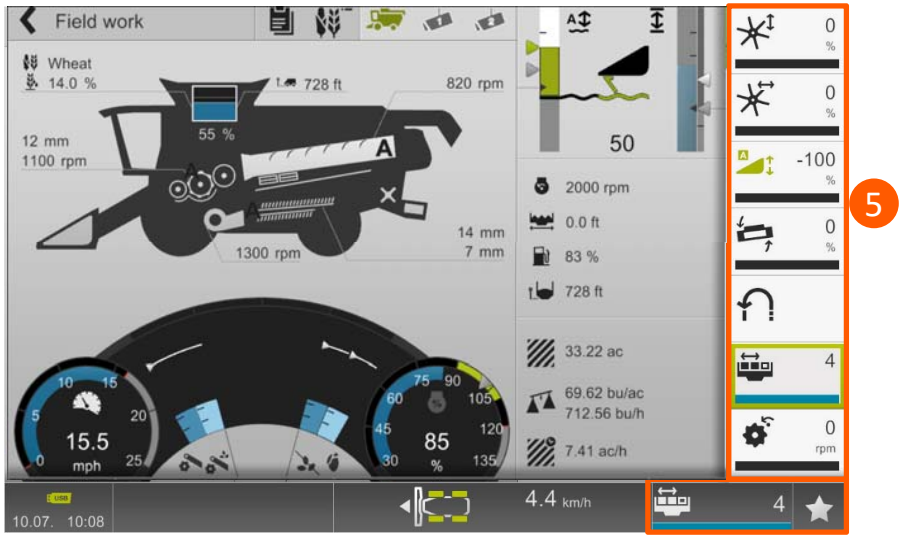
Feederhouse and header reverser

Procedure:

1. Push and hold the Reverse button (1) then push down and hold the feederhouse engagement switch (2), reversing will begin immediately

   - The feederhouse will remain operating in reverse until one of the buttons is released

Hotkey controls



Feature:

1. CEBIS navigation dial
2. HOTKEY buttons
3. Information button
4. Escape / Back

- The HOTKEY menu (5) is displayed in CEBIS when one of the HOTKEY “star” buttons (2) are pressed
- Once a function is selected, it is then controlled by the trigger (6) on the CMOTION handle or by pressing down and rotating the dial (1)

Display 1: Roading screen

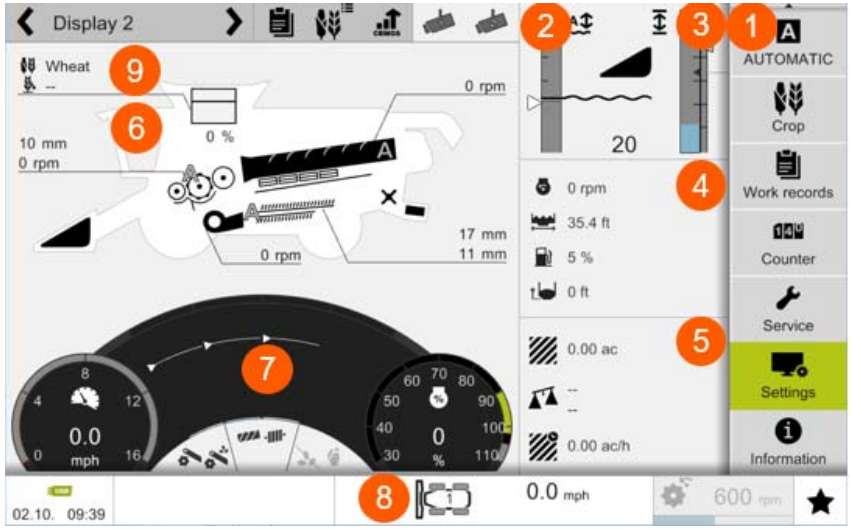
Feature:

1. Main menu
2. DEF level
3. Coolant temp
4. Analog speedometer
5. Engine speed
6. Transmission gear indicator
7. Digital speedometer
8. Fuel level

Display 2: Fieldwork screen

Feature:

1. Main menu
2. CAC cutting height (CAC)
3. Pre-set cutting heights
4. User defined display 1
5. User defined display 2
6. Machine settings information
7. Performance monitor
8. Transmission gear and POWERTRAC display
9. Crop selection information



Display 3: CEMOS AUTOMATIC screen

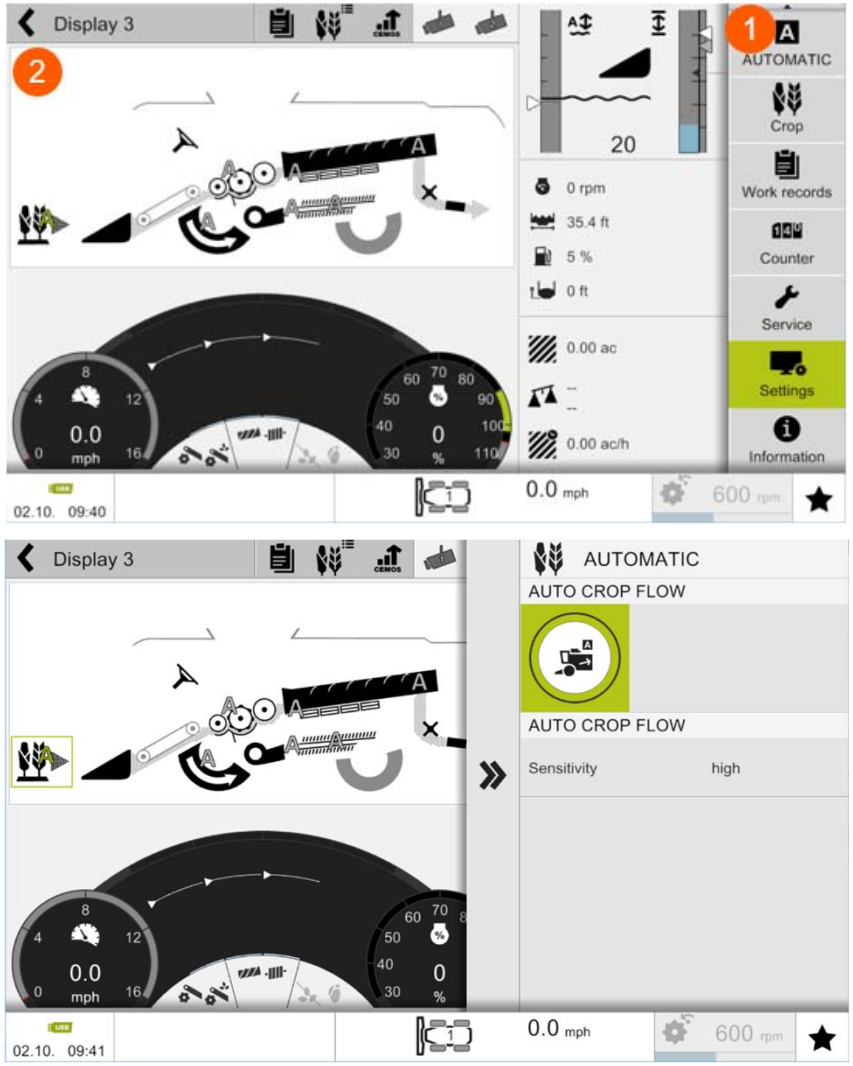
Feature:

1. Main Menu

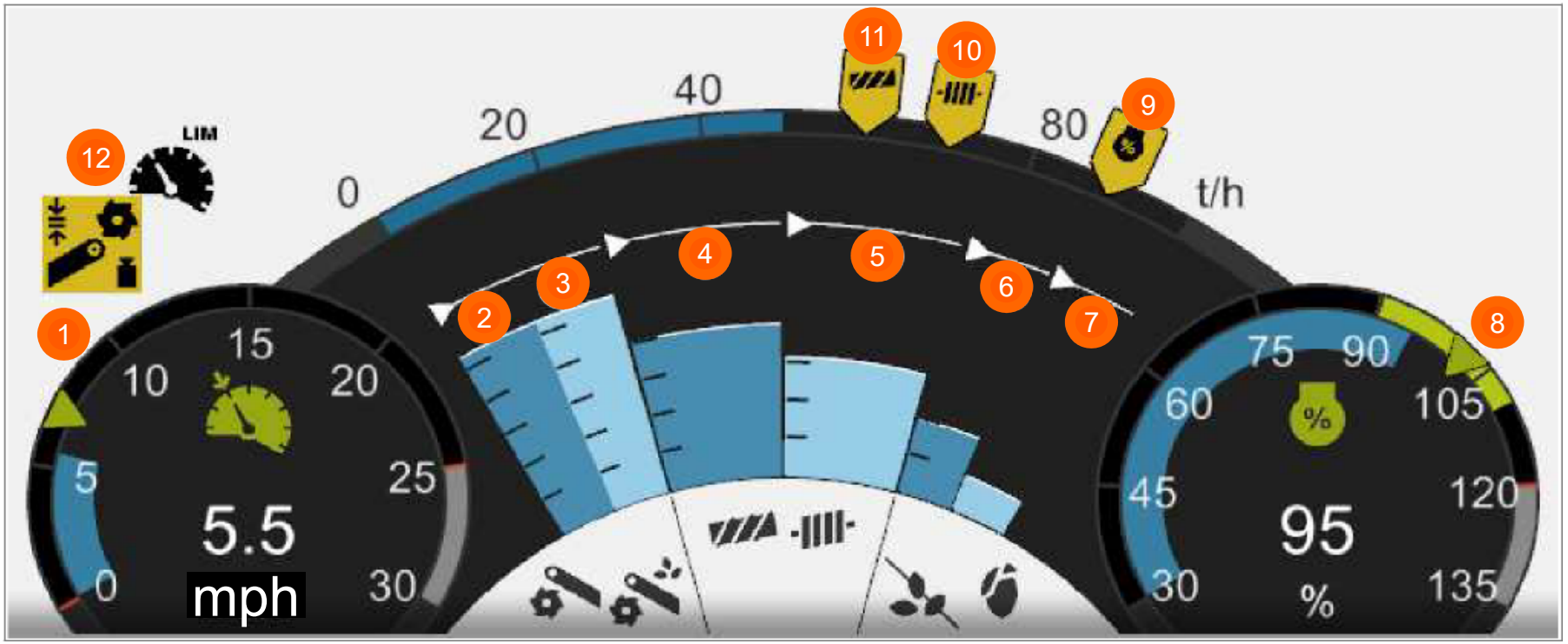
2. CEMOS AUTOMATIC

   - AUTO CROP FLOW
   - AUTO THRESHING
   - AUTO SEPARATION
   - AUTO CLEANING
   - AUTO CHOPPING

Tapping on the A will bring up the window for switching CEMOS AUTOMATIC functions on / off individually



Performance Monitor



1. Ground speed display
2. Returns volume display
3. Amount of grain within returns volume display
4. Rotor loss display
5. Sieve loss display
6. GRAIN QUALITY CAMERA foreign matter display
7. GRAIN QUALITY CAMERA cracked grain display
8. Engine load
9. Limiting feature: **Engine load**
10. Limiting feature: **Sieve loss**
11. Limiting feature: **Rotor loss**
12. Limiting feature: **Feederhouse pressure roller**

9 – 12: indicate which feature(s) are limiting throughput

Methods to set or adjust different functions

Multiple ways to make the same adjustment – use which method you are most comfortable with

Procedure:

1. Tap on the circle icon, in display (A), of the feature you want to adjust and the settings circle in display (B) will appear
2. Use CEBIS control dial to move triangle (1) around settings circle
3. Using the touchscreen function, drag triangle (1) around settings circle with your finger
4. Touch directly on the settings circle and triangle (1) will move to the position where you touched
5. Touch +/- icons to move triangle (2) up and down
6. Use your finger to drag triangle (2) up and down
7. Touch the center of settings circle to bring up keypad (C) and key in the value with your finger
8. After each adjustment or entry, tap on the checkmark icon to save the new setting

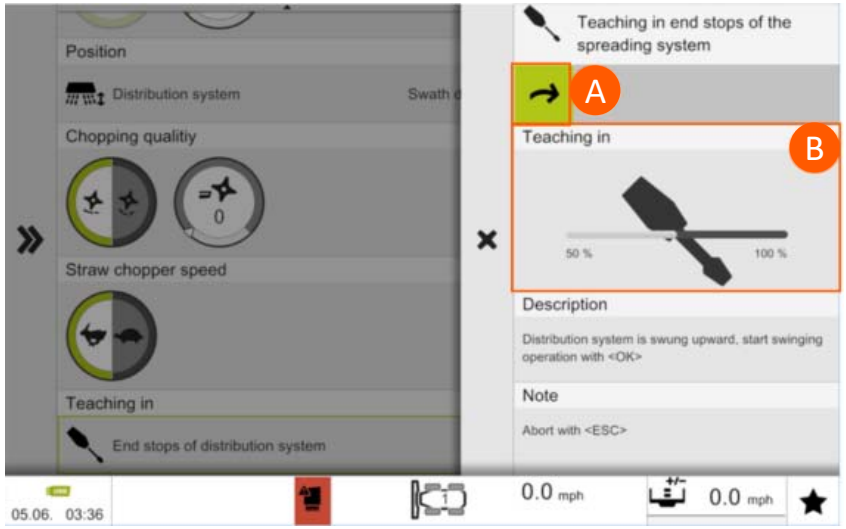
Learning procedures

Learning procedures are calibrations that automatically determine a setting. All functions that require a Learning procedure use the same steps to complete.

Procedure:

After you have selected the function to learn, you will be prompted to do the following

1. Press green arrow box (A) to start the learning procedure
2. Follow the on screen commands or instruction
3. Watch status bar (B) for progress of learning procedure
4. Procedure can be aborted by pressing escape button on the console



A. CEBIS Settings

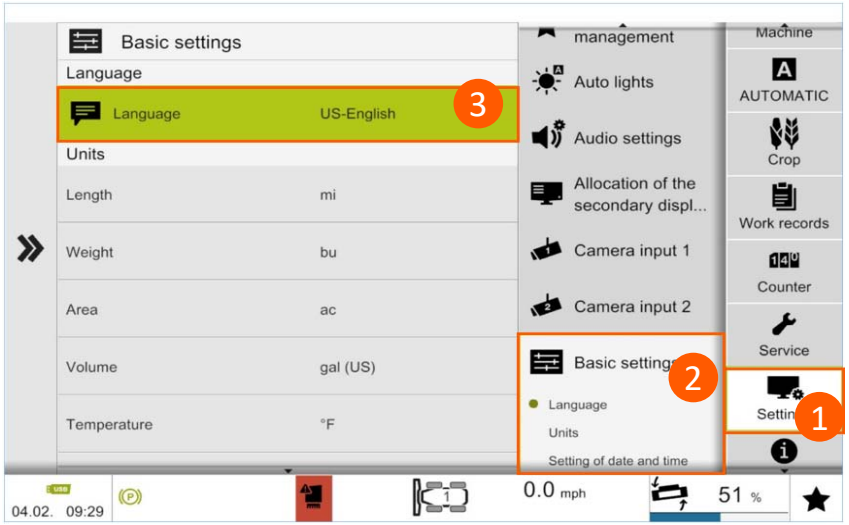
Step 1a: CEBIS language and measuring units

When to perform: beginning of harvest

Navigate to: Settings (1) / Basic settings (2) / Language (3)

A. **Language settings:** set your preferred CEBIS display language

B. **Measuring unit settings:** set your preferred CEBIS display units of measure



Step 2a: CEBIS display settings

When to perform: as needed

Navigate to: Settings (1) / Display settings (2)

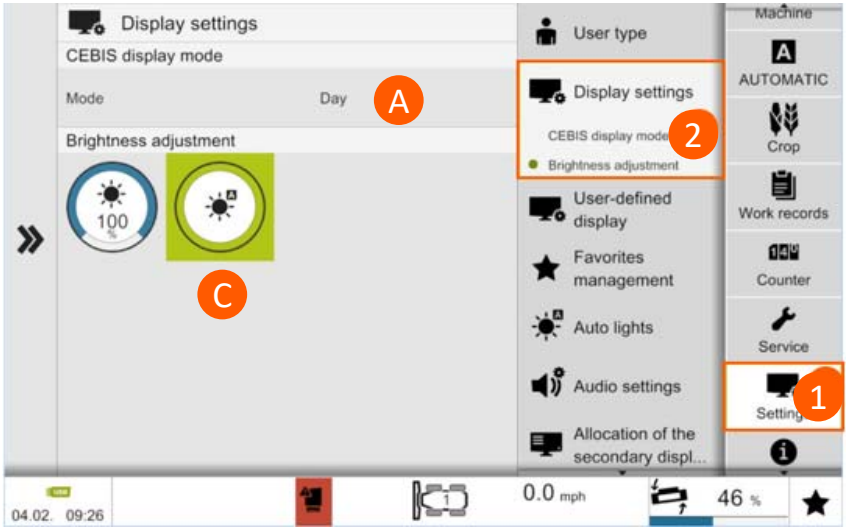
Procedure:

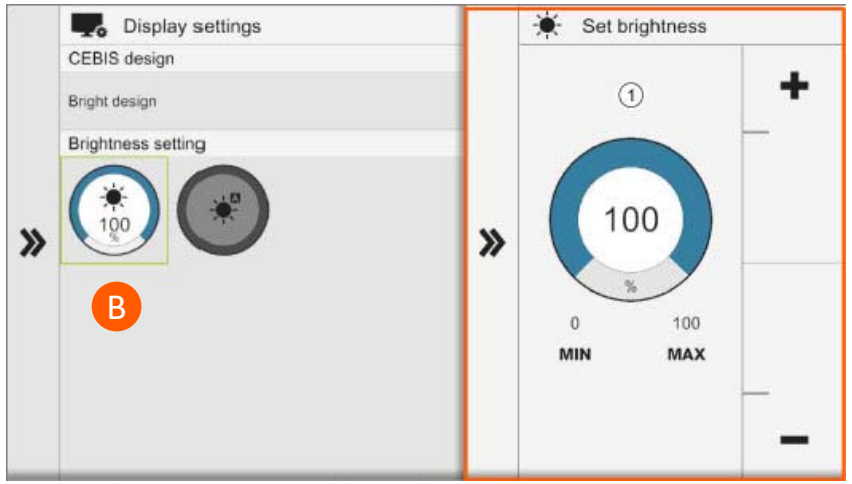
A. Select CEBIS display mode bar (A): and select your display:

- day
- Night
- dependent on work lights

B. Adjust CEBIS screen brightness using the brightness adjustment (B)

C. Turn automatic brightness mode on or off (C)





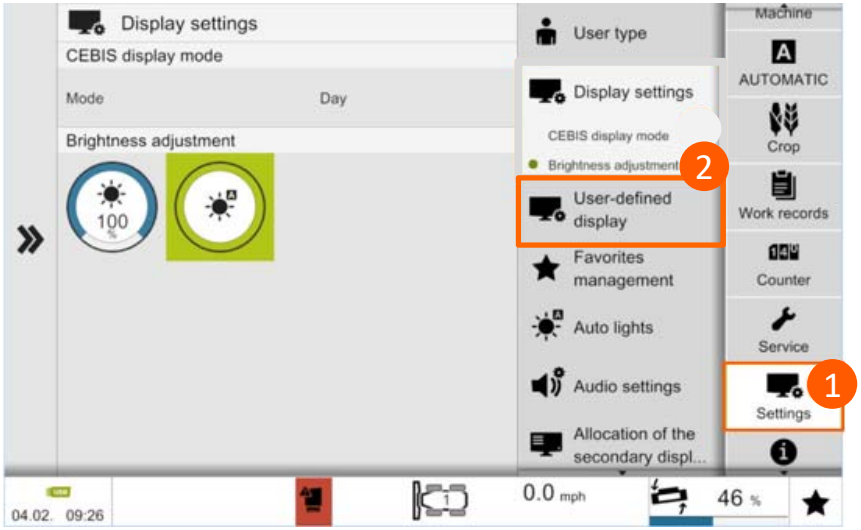
Step 3a: User Defined Display Settings

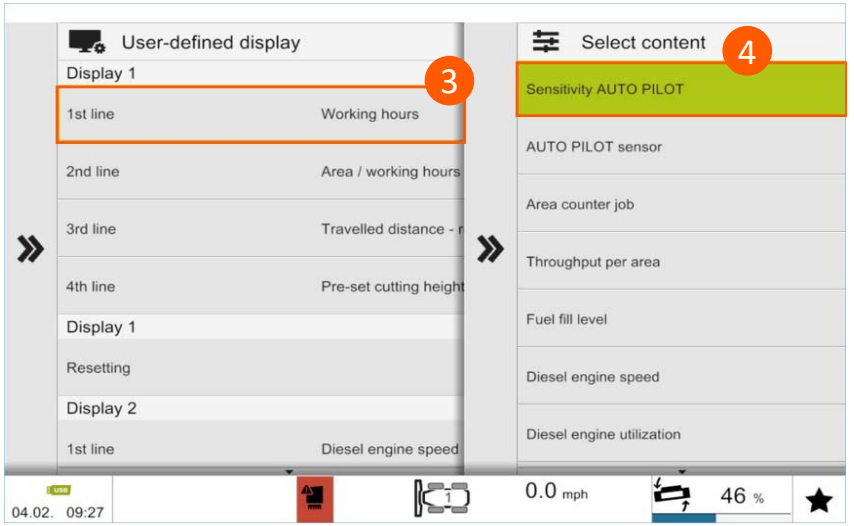
When to perform: beginning of harvest

Navigate to: Settings (1) / User-defined display (2) / 1st line (3) under Display 1

Procedure:

1. Select desired display options for each line in Display 1 from the drop down list (4)
2. Repeat procedure for Displays 2 & 3





Step 4a: User Type Settings

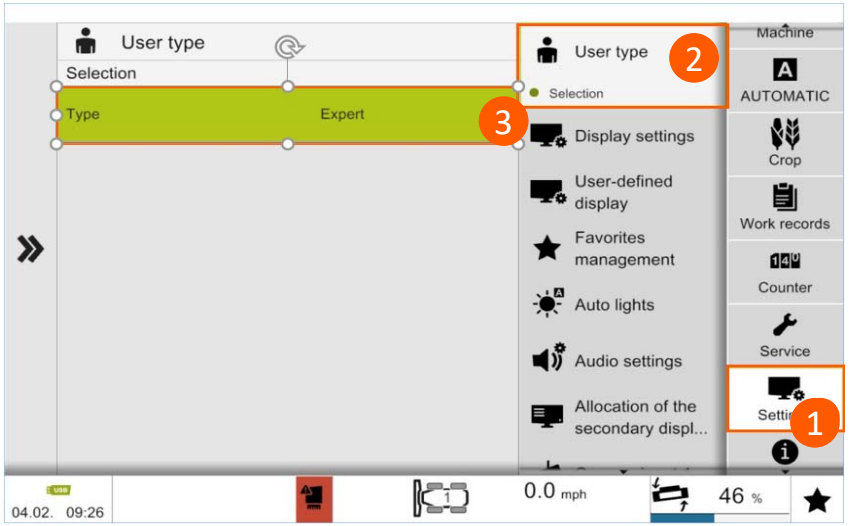
When to perform: as needed

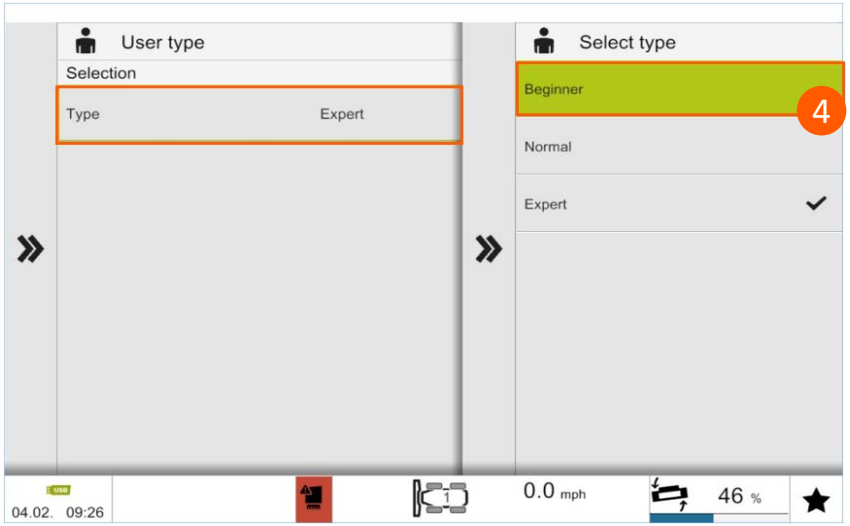
Navigate to: Setting (1) / User Type (2) / Select Type (3) from the menu

Beginner level: Prevents the operator from making adjustments to the machine

Normal level: Allows the operator to make only basic machine adjustments

Expert level (RECOMMENDED): Allows the operator full access to all machine functions





Step 5a: CEBIS Hotkey Setup

When to perform: as needed, for example between different head types

Navigate to: Settings (1) / Favorite Management (2) / Assignment (3)

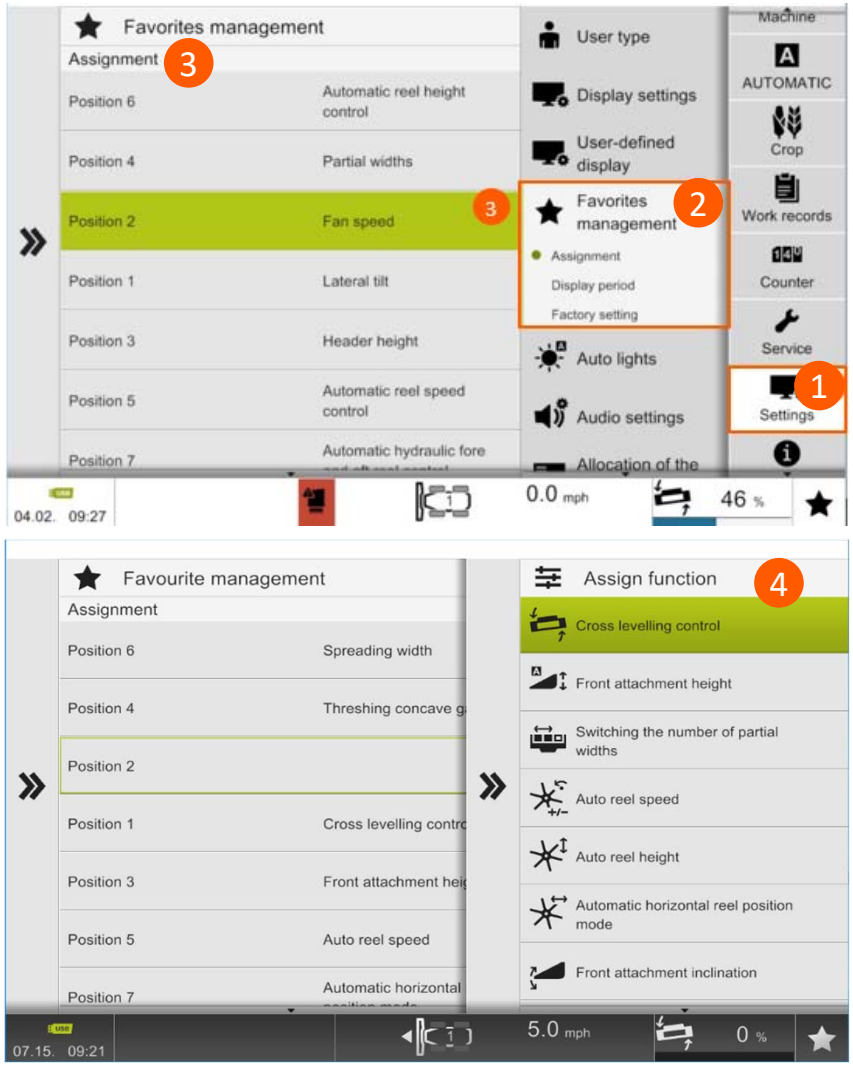
Procedure:

Each position in the Assignments menu can be assigned:

A. When you select a position, a pop-up menu (4) will appear

B. Select the new function for that Position from menu (4)

You can select your desired Hotkey function using the CEBIS touchscreen or CEBIS dial



B. Setting CEBIS for Harvest

Step 1b: Engine speed sensor calibration

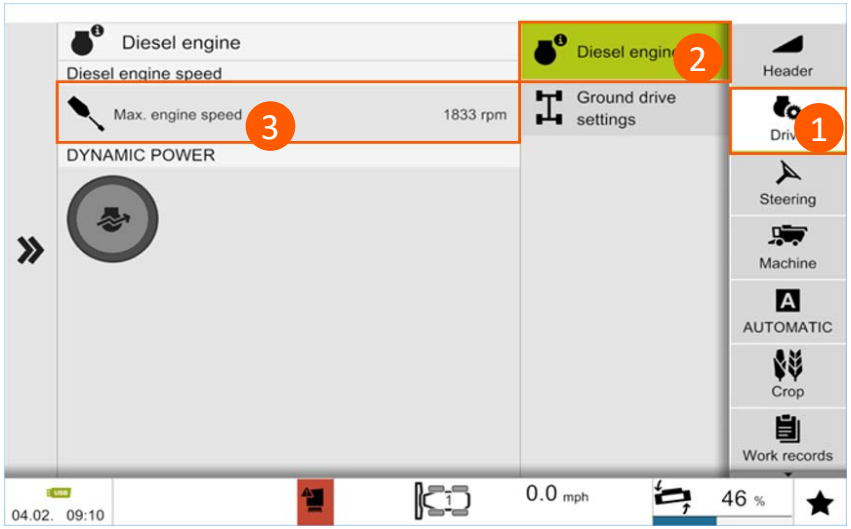
When to perform: beginning of harvest

Navigate to: Drive (1) / Diesel engine (2) / Max engine speed (3)

Procedure:

A. With engine and processor running at full throttle (not harvesting), select max engine speed to start learning procedure

B. Will inform operator when learning is complete



Step 2b: Machine speed sensor calibration

When to perform: at the start of harvest and after servicing

Navigate to: Machine (1) / Speeds (2)

Procedure:

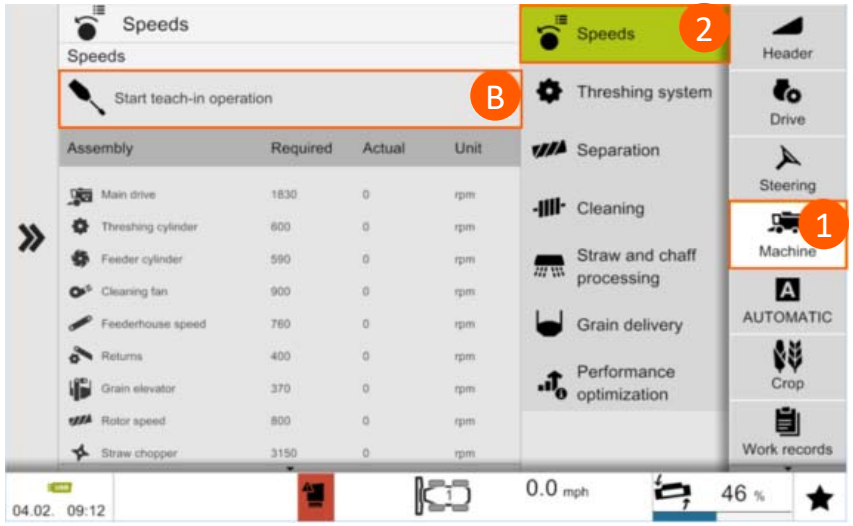
A. Engage the processor feederhouse and set engine to full throttle

B. Select to start learning procedure to calibrate all speed sensors on the combine

C. Will inform operator when learning is complete

Perform engine speed calibration (Step 1b) first followed by Machine speed sensor calibration (Step 2b)

The reason for doing them in this order is because the speed sensors are calibrated to the main engine speed sensor. This ensures that functions like belt speed slip alarms are as accurate as possible.



Step 3b: Set sieve type

When to perform: at the start of harvest, after a sieve change or reconnecting a sieve motor

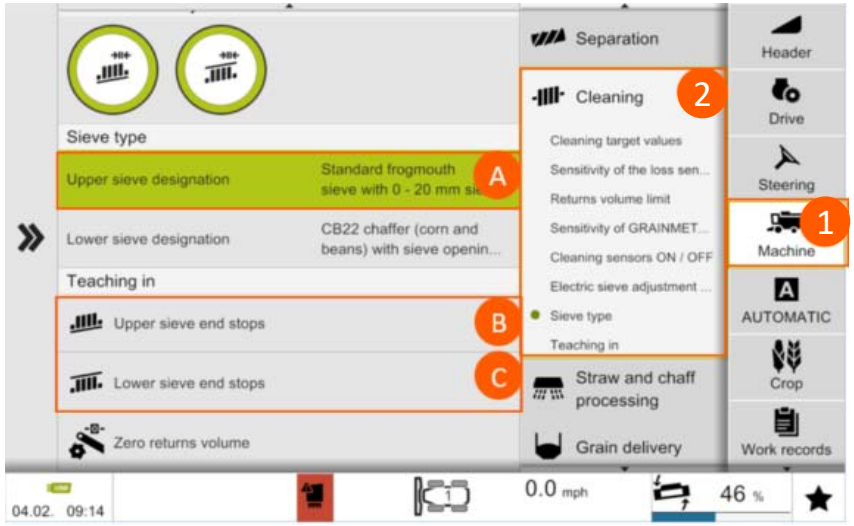
Navigate to: Machine (1) / Cleaning (2) / Sieve type
Procedure:

A. Select the sieve type for the upper sieve and lower sieve

B. Select upper sieve end stops to learn the max travel of the upper sieve louvers

C. Press lower sieve end stops to learn the max travel of the lower sieve louvers

It's a good ideal to learn these at the start of each harvest to make sure that the motors are operating correctly and displaying the proper sieve gap accurately on CEBIS



Step 4b: Returns monitor set-up

When to perform: at the start of harvest and when changing crops

Navigate to: Machine (1) / Cleaning (2) / Returns volume limit (B)

Procedure:

A. Engage processor and set to full throttle

B. Press Returns volume limit button

C. Use the +/- key to set the desired returns volume limit

- 70% is the recommended starting threshold limit for the returns monitor in normal conditions
- At 70% the display graph will indicate threshold has been reached when 70% full
- If reduced to 30%, the display graph will indicate threshold reached when only 30% full (recommended for delicate easy to thresh crops)

D. Press the check mark to save your settings

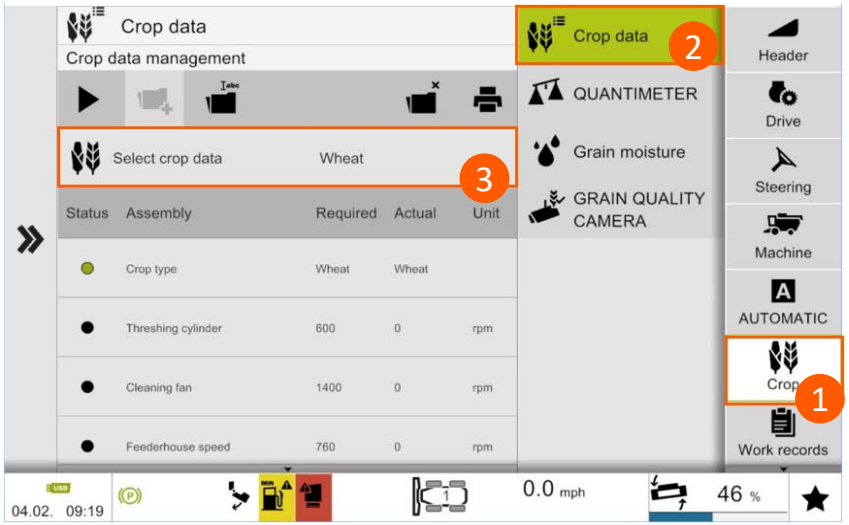
Step 5b: Loading crop settings

When to perform: when changing to a new crop type

Navigate to: Crop (1) / Crop data (2) / Select crop data (3)

Procedure:

1. Start engine, engage processor & feederhouse and set to full throttle
2. Select a crop type from the crop menu
3. Press ▶ to start loading crop settings
4. Once the settings are completed, a green circle will appear. If there is an error when loading crop settings, a red circle will appear



Step 6b: Saving crop settings

When to perform: as needed

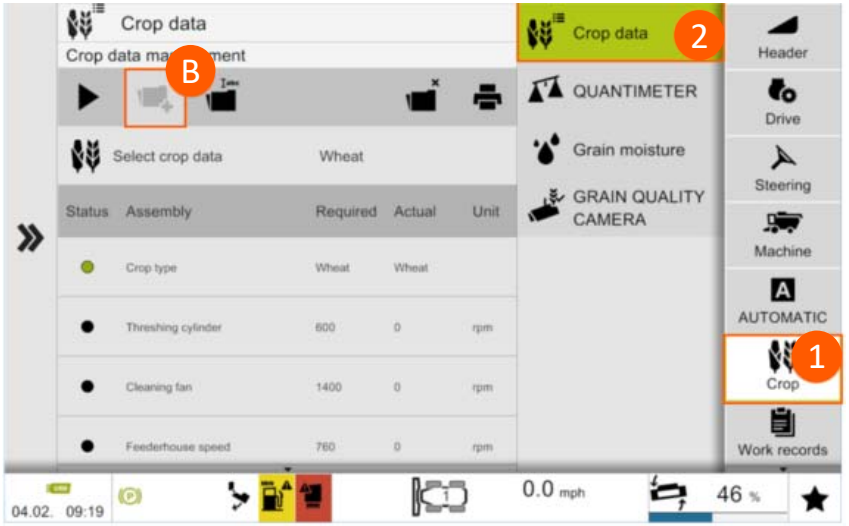
Navigate to: Crop (1) / Crop data (2)

Procedure:

A. Start engine and engage processor & feederhouse and set to full throttle

B. Press (+folder) icon to create user defined crop settings

C. Label new crop and press check mark to save crop settings



Step 7b: Setting crop favorites

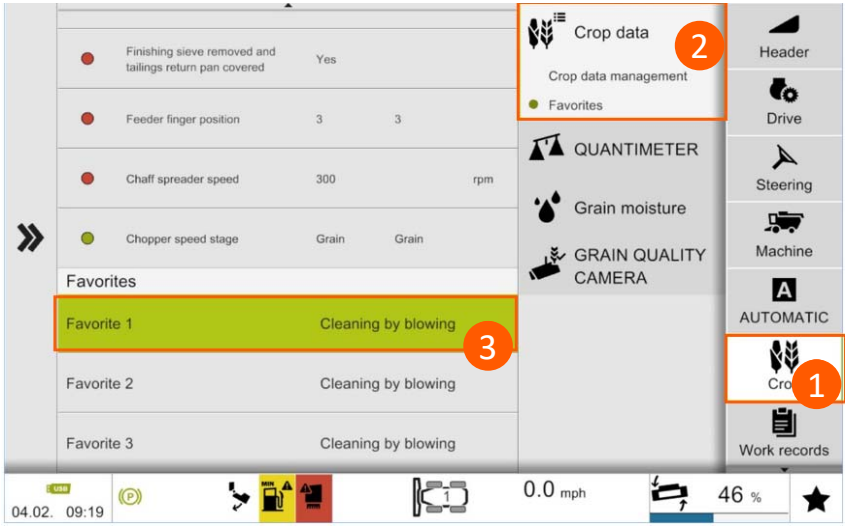
When to perform: as needed

Navigate to: Crop (1) / Crop data (2) / Favorites (3)

Procedure:

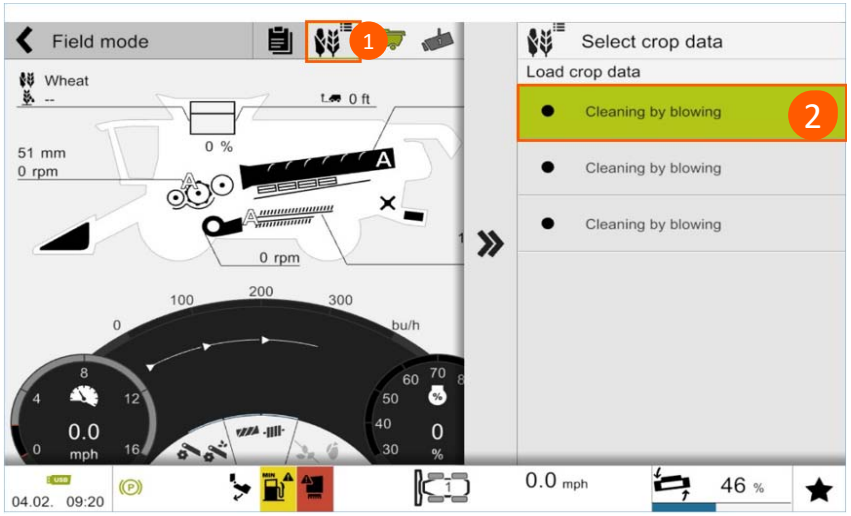
A. Select Favorite 1 and a crop menu will appear
B. Scroll through the menu list until you find the desired crop you want to save as Favorite 1 and select it
C. Repeat the process for Favorite 2 and Favorite 3

Each crop will be automatically saved as that favorite crop type



Selecting crop favorites from the Harvest Screen:

A. Press the crop icon (1) in the header of the display
B. Select the crop from the menu (2)



Step 8b: Learn feederhouse travel limits

When to perform: after every header change except for CONVIO heads which save their first calibration

Navigate to: Header (1) / Learning processes (2)

Procedure:

A. Start engine, engage processor & feederhouse and set the engine to full throttle

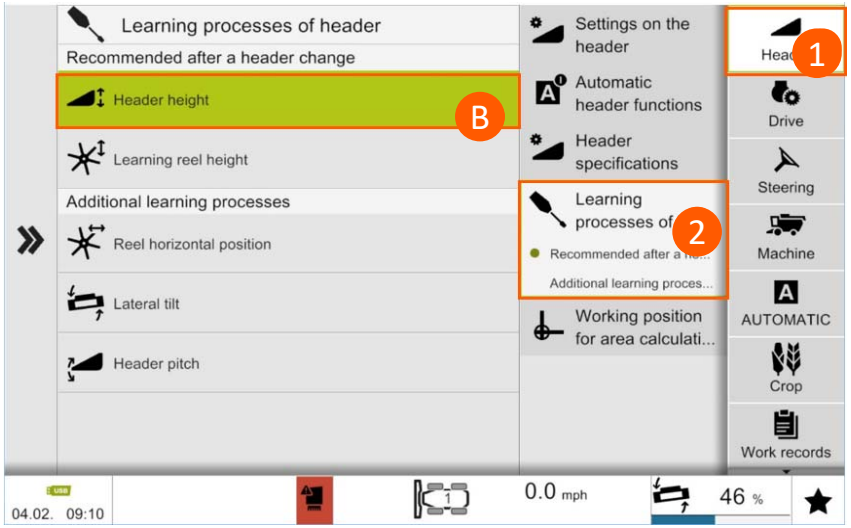
B. Select header height (B)

C. Press green arrow box to start learning procedure

D. Follow the commands on the CEBIS screen to complete the process

E. Repeat the process for each of the additional functions listed

- Reel height
- Reel horizontal position
- Lateral tilt
- Header pitch



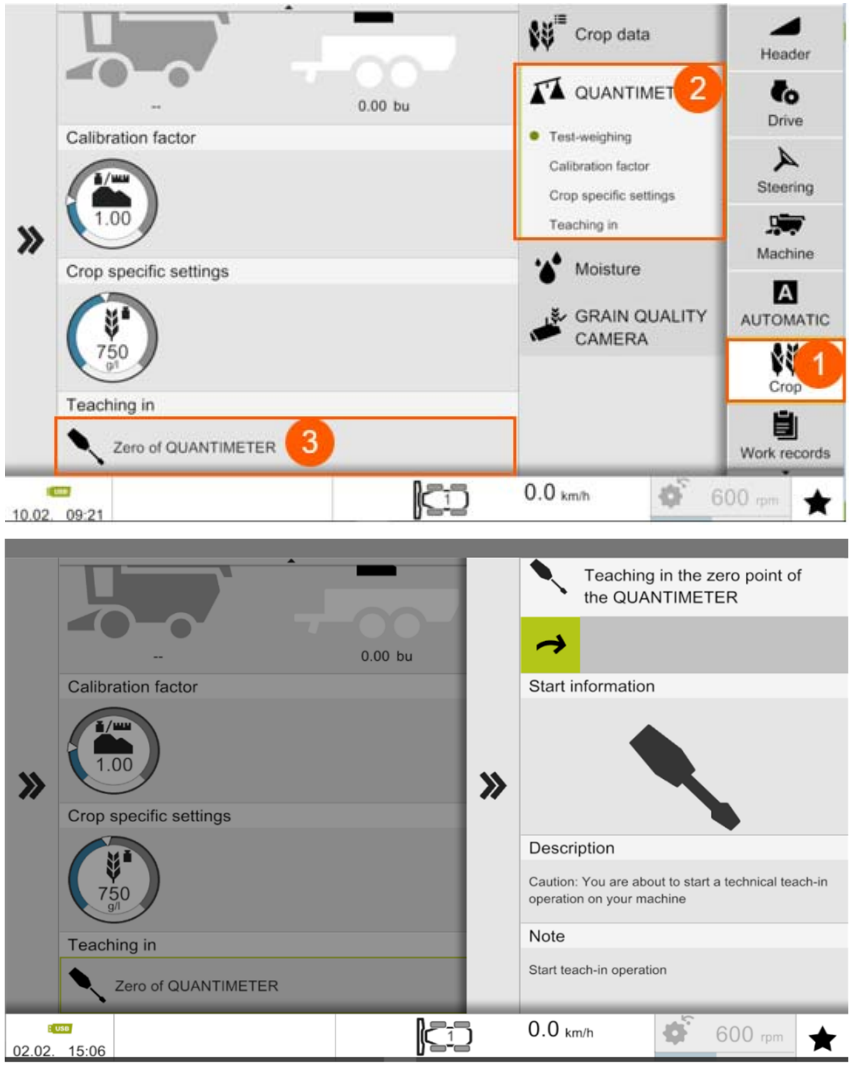
Step 9b: QUANTIMETER zero calibration

When to perform: beginning of harvest of each crop type and periodically throughout harvest

Navigate to: Crop (1) / QUANTIMETER (2) / Zero of QUANTIMETER (3)

Procedure:

1. Start engine, engage processor and set the engine to full throttle
2. Select the Zero QUNATIMETER function (3)
3. Press the green arrow box and wait for the message to confirm that the calibration is complete

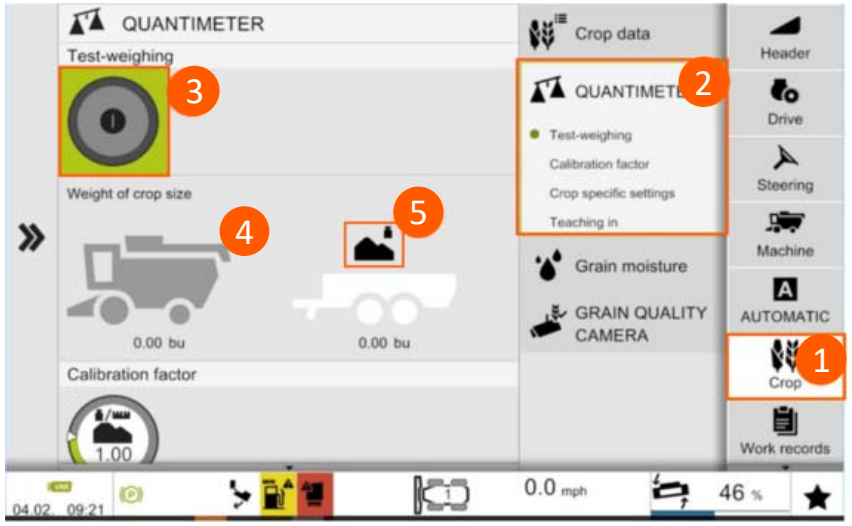


Step 10b: QUANTIMETER yield sensor calibration

When to perform: beginning of harvest of each crop type and periodically throughout harvest
Navigate to: Crop (1) / QUANTIMETER (2)
Procedure:
Calibrating yield sensor:

1. Press the Test-weighting icon (3) to start the calibration
2. Begin harvesting until the grain tank is at least 70% full (above the rear cab window) or up to 100%
3. When the amount of grain is reached in the grain tank press the Test-weighting icon (3) again to turn off the calibration process
4. After turning off the Test-weighing function, the amount of harvested bushels will be saved and appear under the combine icon (4)
5. Unload the grain tank into a cart with scales and weigh / convert to bushels by dividing the weight of the grain by its test weight / enter the harvested bushels (not corrected for moisture) under cart icon by pressing on  icon (5)
6. The Calibration factor will automatically be adjusted and appear in the calibration factor button
7. Calibration factor can be saved for each crop under crop type settings
   - Refer to step 6b “Saving crop settings”

Repeat the calibration process until the desired accuracy is reached



Note: Test weight does not need to be entered / maintained in CEBIS on the LEXION 8000 – 6000 series using the mass flow yield sensor

Step 11b: AUTO CROP FLOW

When to perform: as needed

Navigate to: AUTOMATIC (1) / AUTOMATIC (2) / Scroll up on the screen until you reach the Automatic crop flow icon (3)

Procedure:

A. Press icon (3) to turn ON

B. Go to Settings menu option (4) to adjust system sensitivity

C. Tap the Sensitivity bar (5) to select level of sensitivity

- Low: slower reaction
- Medium (recommended): moderate reaction
- High: fast reaction
- If too sensitive, lower sensitivity

AUTO CROP FLOW is an overload prevention system and does not make any automatic changes to settings – leave on

Step 12b: Residue Management

When to perform: as needed

Navigate to: Machine (1) / Straw and chaff processing (2)

Procedure:

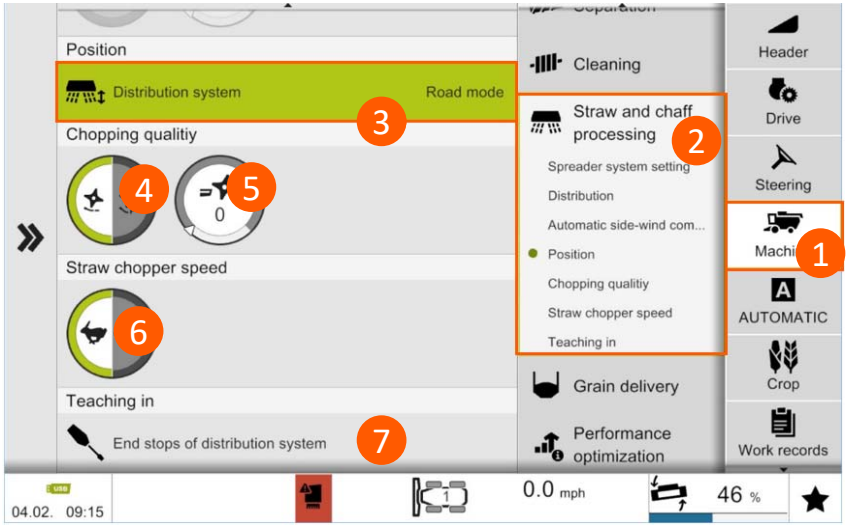
A. Change tailboard position press Distribution system bar (3)

B. Engage or disengage the friction plate press button (4)
   - Engaged = finer cut

C. Engage or disengage stationary knives press button (5)
   - 0 (fully retracted) = large particle size (required for corn)
   - 1 (engaged 50%) = medium particle size
   - 2 (engaged 100%) = fine particle size

D. To change the speed range of the chopper using the electronic straw chopper speed range control (if equipped) press button (6)
   - High speed: soybeans, small grains and rice
   - Low speed: corn

E. Calibrate the tailboard position select Ends stop of distribution system bar (7) and following the on screen commands
   - **Perform at beginning of season**



Step 13b: Setting threshing speed range high/low

When to perform: as needed

Navigate to: Machine (1) / Threshing System (2)

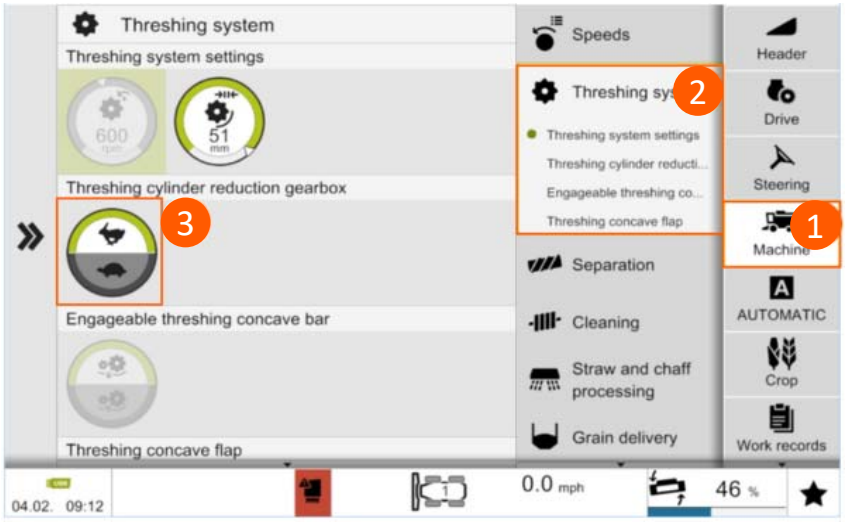
Procedure:

A. Start engine, do not start processor

B. Tap the Machine button (1)

C. Tap threshing system menu (2)

D. Tap threshing cylinder reduction gearbox (3)



High speed

Low speed

Step 14b: Engage threshing concave bar and concave cover flap

When to perform: as needed

Navigate to: Machine (1) / Threshing system (2)

Procedure:

A. Tap the threshing concave bar button (B) to engage or disengage

- Engage for tough to thresh crops

B. Tap threshing concave cover flap button (c) to close or open

- Open for easy to thresh crops
- Close for tough to thresh crops

Each of these features can be operated as needed by the operator or controlled automatically by CEMOS AUTO THRESHING

Service page learning procedures

When to perform: at specified intervals

Navigate to: Service (1) / Programming operations (2)

Procedure:

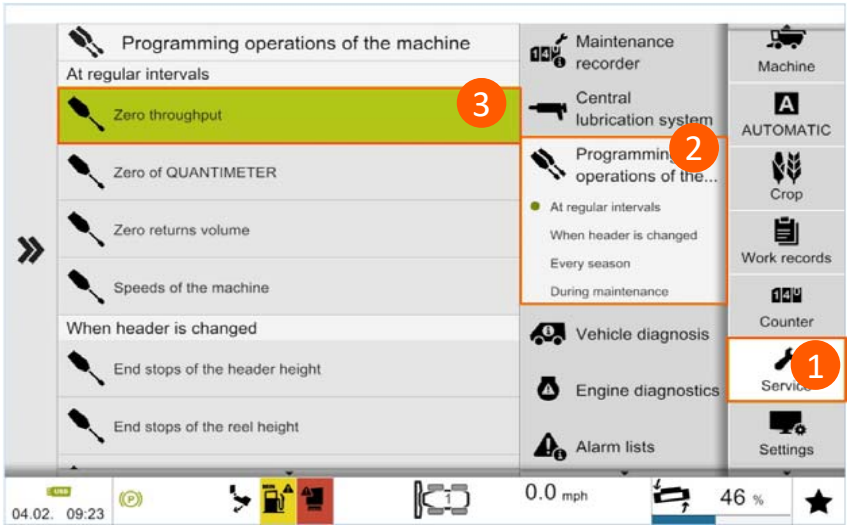
A. Select function that you want to calibrate from list (3)

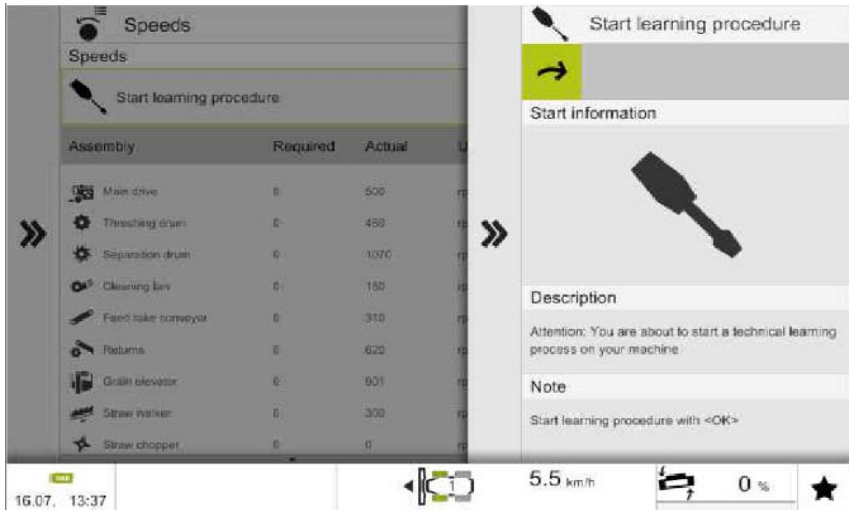
B. Press green arrow box to start learning procedure

C. Follow commands on CEBIS screen until procedure is finished

D. Repeat for additional functions

The purpose of this page is to consolidate all learning functions / calibrations onto one screen, separated by their specific intervals to improve user interface by making these functions easier to perform





C. Header and CONVIO CEBIS setup

Step 1c: Header type

When to perform: after every header change except for CONVIO heads which save their settings in the header module

Navigate to: Header (1) / Header specification (2)

Procedure:

A. Tap Header type bar (A)

B. Select header type from pop up menu (B)

Step 2c: Setting header working width

When to perform: after every header change except for CONVIO heads which save their settings in the header module

Navigate to: Header (1) / Header specification (2)

Procedure:

A. Tap working width button (A)

B. Use +/- buttons to enter header working width (B)

C. Press check mark (C) to save changes

Step 3c: Automatic header functions

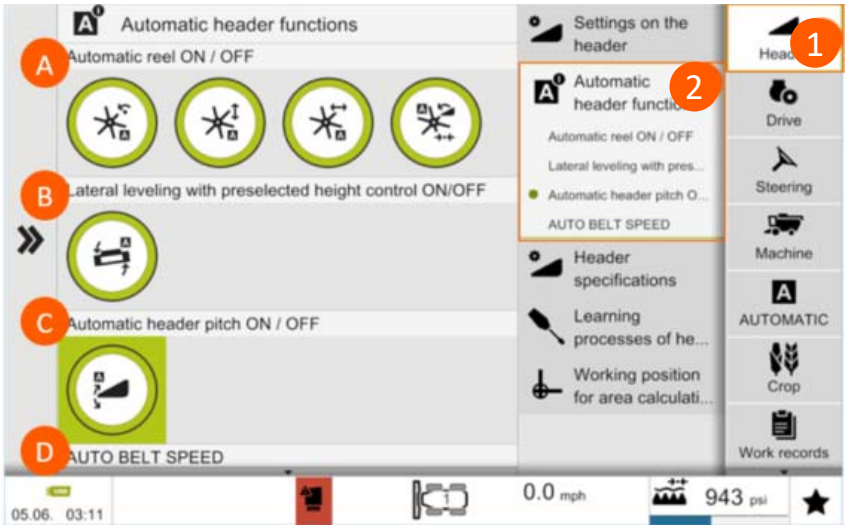
When to perform: as needed
Navigate to: Header (1) / Automatic header functions (2)
Procedure:

A. Turn ON / OFF automatic reel functions, select any or all of the functions listed in (A):
   - Auto reel speed
   - Auto reel height
   - Auto reel fore/aft
   - Auto reel overload protection

B. Turn ON / OFF Lateral leveling with preselected height control select button (B)
   - Enables lateral tilt compensation with AUTO CONTOUR
   - Required to be on for all heads with AUTO CONTOUR

C. Automatic header pitch ON / OFF button (C)
   - Enables the pitch of the header to change between different cutting positions

D. AUTO BELT SPEED ON / OFF button (D)
   - Enables draper belts speeds to adjust with ground speed
   - CONVIO draper head only



Step 4c : Adjusting CONVIO AUTO BELT SPEED center belt offset

When to perform: as needed

Navigate to: Header (1) / Settings on the header (2)

Procedure:

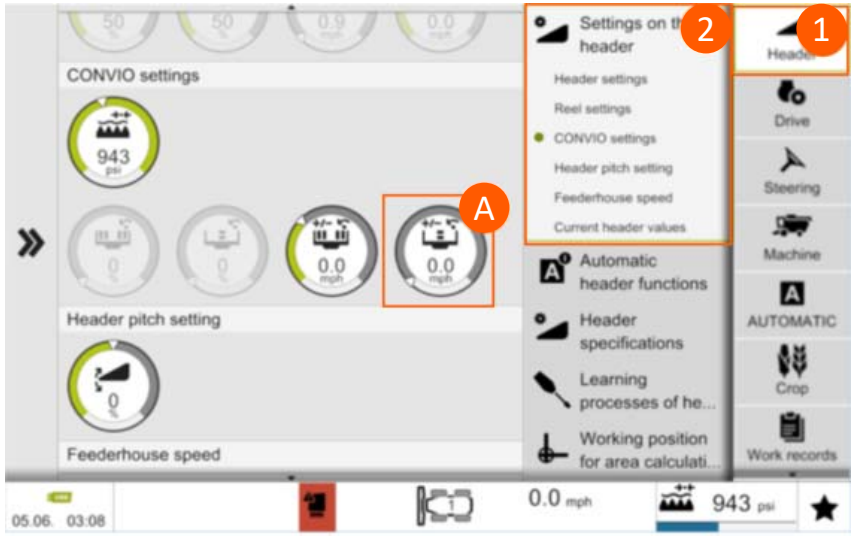
A. Tap center belt speed button (A)

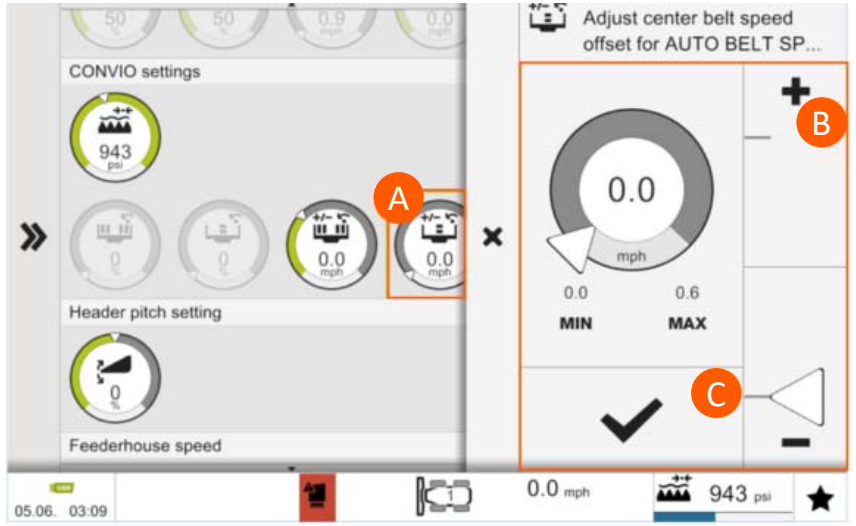
B. Use +/- buttons (B) to change the center belt speed offset to ground speed

- Settings range: 0.0 – 0.6 mph

C. Tap the check mark to save changes (C)

Center belt speed always runs faster than the side belts to ensure smooth feeding





Step 5c: Adjusting CONVIO AUTO BELT SPEED side belt offset

When to perform: as needed

Navigate to: Header (1) / Settings on the header (2)

Procedure:

A. Tap side belt speed button (A)

B. Use +/- buttons (B) to change side belt speed offset

- Settings range: -1.2 – 2.5 mph

C. Tap the check mark to save changes (C)

Side belt speed always runs slower than the center belt to ensure smooth feeding

Step 6c: CONVIO cutter bar operating modes

When to perform: when changing crops or as needed

Navigate to: Header (1) / Header specifications (2) / AUTO CONTOUR operation mode (3)

Select cutter bar mode:

A. **Grain** – rigid cutter bar for standing small grains

B. **Flex manual** – sets cutter bar to flex at its lowest pressure setting (adjust cutter bar pressure as needed)

C. **Lodged grain FLEX** – operator can switch between rigid (standing) and flex (lodged) modes using pre-set cutting heights button on the CMOTION handle

D. **AUTO FLEX** – set cutter bar to flex mode with active ground pressure compensation

Step 7c: Adjusting CONVIO cutter bar pressure

When to perform: as needed

Navigate to: Header (1) / Settings on the header (2)

Procedure:

A. Tap the pressure setting button (A)

B. Enter desired CONVIO cutter bar pressure (B)

C. Tap the check mark to save changes (C)

- Pressure settings range: 653 – 1305 psi
  - Recommended starting pressure: **943 psi**
- Lower PSI = more flexible cutter bar with higher ground pressure (heavier cutter bar)
  - Best use in firm ground conditions with low risk of soil pushing up at the cutter bar
- Higher PSI = stiffer cutter bar with lower ground pressure (lighter cutter bar)
  - Best use in soft or sticky ground conditions prone to soil pushing up at the cutter bar

Step 8c: Setting belt slip limits

When to perform: as needed

Navigate to: Header (1) / Header specifications (2) / Draper belt slip limits menu (3)

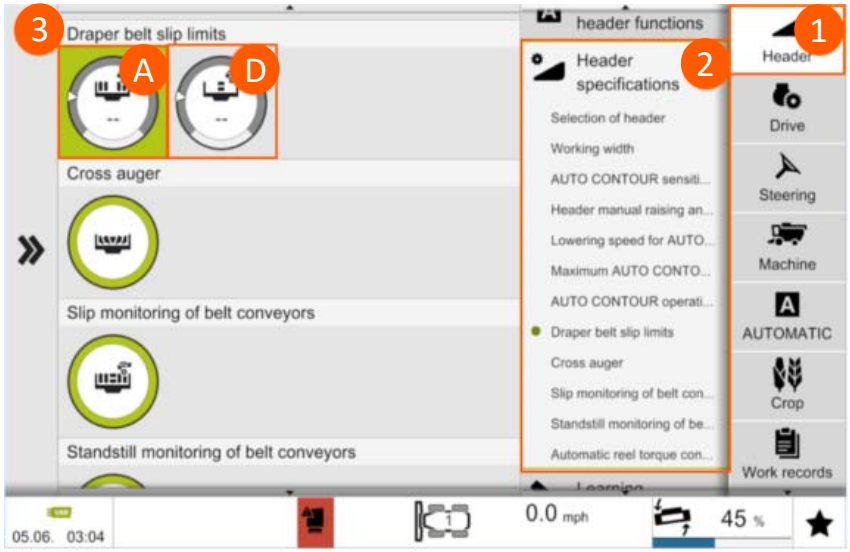
Procedure:

A. Tap side belt slip limit button (A)

B. Enter desired draper side belt slip limit setting

C. Tap the check mark to save the changes

D. Repeat the process for center belt slip limit (D)



Step 9c: Canola cross augers ON/OFF

When to perform: as needed

Navigate to: Header (1) / Header specifications (2) / Cross auger menu (3)

Procedure:

A. Tap the cross auger button (A) to turn cross augers ON/OFF

Turning the cross augers ON/OFF will also turn the vertical side knives ON/OFF, if equipped

Step 10c: Setting AUTO CONTOUR sensitivity

When to perform: when changing headers or as needed (this function remains saved on CONVIO heads)

Navigate to: Header (1) / Header specifications (2) / AUTO CONTOUR sensitivity menu (3)

Procedure:

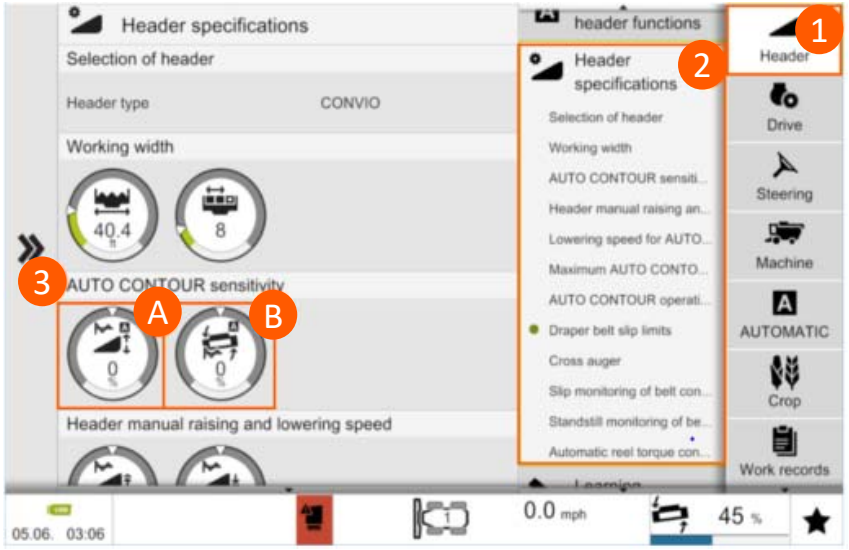
A. Tap button (A) to change vertical sensitivity

- Starting setting 0% (adjust in +/- 1-2 increments at a time)
- Press check mark to save changes

B. Tap button (B) to change lateral tilt sensitivity

- Starting setting 0% (adjust in +/- 1-2 increments at a time)
- Press check mark to save changes

Higher sensitivity increases the response to changing conditions. If set too high, the header may bounce uncontrollably on the ground when CAC is activated. If so, adjust the sensitivity down in 1-2 increments until there is no longer any bounce. Too much bounce can cause the bottom of the head and cutter bar to drag up.



Preset cutting height positions

1. Cutting height control with sensing bands:
   - Rigid heads or corn head
2. Cutting height control with flexible cutter bar:
   - Flex heads
3. Cutting height control with ground pressure:
   - CONVIO in Flex or AUTO FLEX modes
4. AUTO CONTOUR cutting mode
   - Icon shades green when activated via the CMOTION handle
5. Upper saved header height position
   - Triangle shaded green = active and its current value is 55
6. Lower saved header height position
   - Inactive; given its current position its set to work with a rigid cutter bar equipped with sensing bands
7. Ground level
   - Determined when learning the feederhouse / header travel limits
   - Never set below this line when the cutter bar is set to flex
8. Current control value or value of the active cutting height
9. Value range 0-100 (flex), -1 to -30 (rigid cutter bar lowest settings with sensing bands)