CASE IH 2388 USER MANUAL

For farming simulator 2011

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Introduction

Dear LS2011 user

Thankyou for downloading my Case International 2388 Axial Flow combine v.1.1 for farming simulator 2011

Please read the user guide below to enjoy full use of the combine

Grain types: wheat barley rape maize maizev2 soybean sunflower

CREDITS:
Model: Knagsted
In game: Knagsted
Animations: Knagsted
Beta testing: Knagsted, R3ggo111

Script: Knagsted
Other script by Bayn, Templaer, zartask

Best regards

Knagsted

Userguide

Hydrostat

The Case IH 2388 is equipped with a hydrostatic "gearbox" which has a range from -100% to +100% in each of the three gears.
To increase/decrease the hydrostatic level press ***[Keypad +]/[Keypad -].*** To quickly reset the hydrostatic level to 0% (Neutral), press ***[Keypad *]***.

Figure 1: The hydrostatic handle

Gearbox

The hydrostat of the Case IH 2388 works in conjunction with a 3 speed manual gearbox.
Increase/Descrease gear by pressing ***[Keypad /]/[Keypad 3]***.

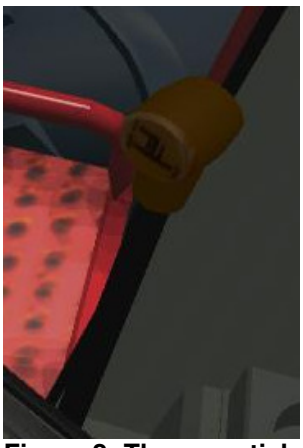

Figure 2: The gearstick

Throttle

The RPM of the 2388 engine is increased/decreased by pressing ***[keypad 4]/[Keypad 6]***. The engine RPM can also be quick set to idle using ***[Keypad 5]***. Idle rpm is 850 rpm. Max rpm is 2400 rpms. Increasing the motor RPM will increase your, speed, graintank unloading speed, your threasher speed and your header revolution speed.

Figure 3: The throttle handle

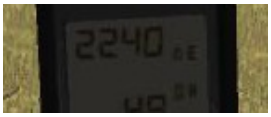

Figure 4: The current engine rpms

Handbrake/Brakes/Clutch

When the hydrostatic gearbox is in neutral, the combine will roll if positioned on an incline. To stop this, press ***[space]*** to set the handbrake. To stop rapidly (event when hydro is not in neutral) press ***[S]*** or [Brakepedals on steering wheel].
This will engage the Clutch/Brakes. This will not change the hydrolevel setting, and the combine will reengage at its prior speed when the brake/clutch is released. The handbrake will automatically disengage when the hydrostatic level exceeds 0%

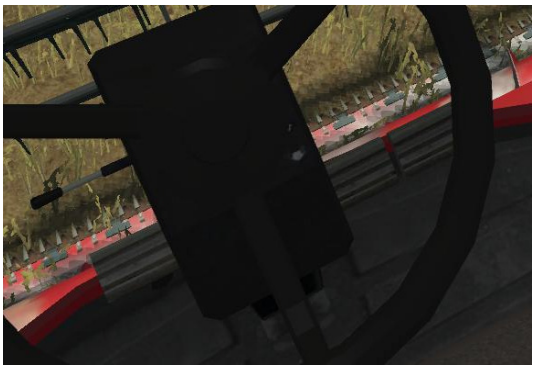

Figure 5: The clutch and brakes

Operating speed:

The speed of the combine is a result of the combination of hydrolevel, Gear and Engine Rpm. Good Harvesting speeds (7-8 Kmh) can be experienced around Hydrolevel 50%, 2nd gear and 1800 - 2400 Rpms

Figure 6: Thresher RPM/Road Speed display

Deactivate hydrostatic gearbox:

If you dont prefer the hydrostatic gearbox, shift to conventional (RPM limiter) gearbox by pressing ***[Z]***. When the hydrostat is deactivated the RPM limiter values of speed level 1 and 2 are set by pressing ***[Keypad+]/[Keypad -].***

Manual Unload

Real combines unloads manually. By this I mean that its up to the combine driver to activate and deactivate the unloading of grain. Once activated, the unload auger will continue to empty the Grain tank untill deactivated, even when a trailer is not located underneath the Grain pipe. This means that unless you are carefull, you'll spill grain on the ground. To activate/deactivate grain unloading press ***[N].*** The manual unloading can only be engaged when you are driving the combine, and the pipe is fully extended. When the combine is Hired or autopiloted, the unloading of grain works automatically (std. gameplay).

Figure 7: The pipe out and unloading indication lights

Unload speed

The more RPMS the engine is running at, the faster the combine will unload. An unload increase rate of 300% can be obtained at maximum engine rpms compared to when unloading at idle engine rpms.

Manual header lowering and raising

By default the 2388 will lift and lower the header by pressing ***[V]***. However you also have the option of lowering and raising the header "manually". To activate the manual header raise mode press ***[keypad Enter]***. Then lower/raise the header by pressing (holding down) ***[Keypad 2]/[Keypad 8]***. The Header lift level is displayed on the A post digital display.

Figure 8: Header lift indicator

Mode shifting

To conserve keys, the adjustment of Header Reel, Internal Camera, Mirrors and Autopilot is done using the same combination of keys. To change mode from e.g. Reel adjust mode to Camera adjustment mode press ***[,]***.

Reel adjustment ("Reel adjustment mode")

Move the reel forward/aft by pressing ***[4]/[5]***. Indcrease/Decrease the reel lift by pressing ***[6]/[7]***. Increase/Decrease the reel speed by pressing ***[8]/[9]***.

Figure 9: Adjusting Reel shift mode

Camera adjustment (When mode is "Camera mode")

Move the interior camera forward/backwards/left/right by pressing ***[5]/[6]/[7]/[8]***. Reset the camera by pressing ***[0]***.

Figure 10: Adjusting Camera shift mode

Mirror adjustment ("Left mirror adjustment mode" or "Right mirror adjustment mode")

Adjust the Rotation of mirrors (X and Z axis) by pressing ***[5]/[6]/[7]/[8]***. Mirror reflection is activated by pressing ***[o].***

Figure 11: Adjusting Mirrors shift mode

Autopilot adjustment ("Autopilot adjustment mode")

Adjust the autopilot by pressing ***[4]/[5]/[6]/[7]/[8]/[9]***. Autopilot HUD is activated by pressing ***[0]***

Figure 12: Adjusting AP mode

Manual straw chopper

When harvesting crops that can produce swath (Barley and Wheat), the chopper has to be manually dismounted in order to stop the combine from chopping up the swath. This is done by exiting the combine and walking to the rear end of the combine (where the gray rotating straw spreader are mounted). When close enough to mount/dismount the spreaders, a mission text will appear in the upper Left Game HUD, asking you to press ***[b]*** to mount/dismount the strawspreaders. By default, the chopper (straw spreaders) are mounted. However if you dismount and save the game, the dismounting is remembered the next time you load the savegame.

Figure 13: External mounting and unmounting of the straw chopper

Breakdown

Real combines breaks down from time to time. So does this mod. After playing a random time (Harvesting a random number of acres) the combine will break down and will need service. You will not be able to harvest again untill you have fixed/serviced the combine. To do this, exit the combine and walk round to the rear of the combine, where the service ladder is located. When close enough to extend the service ladder, a mission text will appear in the upper Left Game HUD asking you to press ***[u]*** to extend the ladder. When ladder is extended a new mission text will appear asking you to fix the combine by pressing ***[h]***.
The fixing costs a random amount of money, and you have to acknowledge/decline the cost of the fix by pressing ***[y]/[n]***. The combine can be serviced in advanced of a breakdown. It won't save you money, but the time between breakdowns will increase. The service procedure is the same as fixing the combine described above. Service records are not stored between savegames.

Figure 14: Breakdown and fixing the combine externally

Advanced thresher

Real combines are adjusted to the type of crop its harvesting to optimize grain purity, reduce the cracking of grain kernels and to minimize grain spill out the rear-end of the combine. This feature has been built into the Case IH 2388.
Before you start harvesting a crop you have to adjust two setting: Crop type and thresher speed.

Selecting Crop type

Adjust the crop type by pressing ***[.]*** Four types of setting can be chosen:

- Short (**wheat**)
- long (**barley**, **sunflower**)
- big round (**corn**, **soybeans**)
- small round (**rape**)

The default setting of the crop selector when starting a game is short. To view the crop selector setting, shift to cab interior view and look at the A post containing the digital display, gauges etc. The lower part of this A post contains 3 turning knobs. The upper knob of these 3 is the grain selector (located just beneath the spill gauge). It will rotate as you change the crop type by pressing ***[.]***

Figure 15: The crop type selector/indication knob

Setting thresher speed

Different crops require different thresher speeds to produce the optimal grain quality and ensure that the crop is threshed thoroughly enough to "extract" all the grains from the plant before the plant exits the thresher system of the combine.Increase/Decrease the thresher speed (Current value Viewable in the Engine RPM/Thresher RRM digital display on the A-post controls) by pressing ***[keypad 7]/[keypad 9].*** Here are the optimat threshing speed values:

- Short grains (**Wheat**): 1050 rpm
- Long grains (**barley, sunflower**): 950 rpm
- Big round grains (**corn, soybeans**): 800 rpm
- Short grains (**rape**): 1000 rpm

Figure 16: The thresher speed

Spill

As mentioned before the combine will spill grain if the thresher is not setup correctly (See section above) for the crop type and thresher speed. This will reduce the amount of grain that will end up in the graintank of the combine. The actual spill of the combine is viewable on the Combine via the spill monitor, which is the lowest analogue gauge on the A post, located just above the Crop selector. When the combine is threshing optimally, and is processing a crop, the indicator "needle" of the spill monitor gauge will be positioned within the green area of the gauge. Alternatively, the actual spill value (in %) is viewable on the Combine HUD on the left side of the screen. The value should read 0 when the combine thresher is configured optimally.

Figure 17: Analogue spill indicator. Keep it in the green

Thresher activation

Activate/Deactivate the thresher by pressing ***[L]***. The Threshing rpm meter will display 00 when the thresher is not running. Or else it will display the thresher rpm value

Figure 18: Thresher not running

Figure 19: Thresher running

Extendable grain tank (EUROVERSION only)

If not open, the graintank lid of the 2388 EU version can be extended by pressing ***[k]***.
Alternatively the graintank will open automatically when the grain level reaches a certain level. It cannot be closed again until the graintank level is below this again

Figure 20: The EU version extendable tank

Formation harvesting

In case you want to harvest with multiple 2388's on the same field and want to drive these in formation, increase the header count by pressing ***[t]***. When the header count is greater than 1, the Helper(s) (when engaged) of the particular 2388 that he is controlling will skip areas for the following combine(s) to harvest. The HUD will display the number of headers, and the role of the Helper combine in the formation. Decrease the header count pressing ***[u]***.

Leading and Following formation roles

Leading formation means that that the particular combine is the combine that dictates the heading that all the combines in the formation will follow. Likewise, Following formation means that that particular combine is steering according to the direction that the leading combine is dictating to it. The Leading and following roles in a formation is assigned automatically, when the helper is engaged ***[H] and the combine has a header count greater than 1.***

Figure 21: Formation harvesting. Notice formation role and header count

Slugging headers

Real combines have a tendency to slug their headers in difficult conditions, if the harvesting speed is to high, or for similar reasons. This problem has been built into the headers of the 2388. To clear the header of the crop slug, reverse the combine. Slugging may occur at any time, so keep your eye on the header when harvesting, or you will start missing areas.

Figure 22: A slugged header will cause you to miss spots. Reverse the combine to clear the slug

KEYS summary

Besides the standard keys here is a sum up of the keys for the functionalities described above.

INCREASE THROTTLE	***[Keypad 4]***
DECREASE THROTTLE	***[Keypad 6]***
RESET THROTTLE	***[Keypad 5]***
CAMERA/MIRROR LEFT	***[5]***
CAMERA/MIRROR RIGHT	***[6]***
CAMERA/MIRROR FWD	***[7]***
CAMERA/MIRROR REW	***[8]***
RESET CAMERA	***[0]***
ACTIVATE MIRRORS	***[o]***
AP LOOK LEFT	***[4]*** (Only when in AP shift mode)
AP LOOK RIGHT	***[5]*** (Only when in AP shift mode)
AP INCREASE WORKWIDTH	***[6]*** (Only when in AP shift mode)
AP DECREASE WORKWIDTH	***[7]*** (Only when in AP shift mode)
AP SCROLL FRUIT UP	***[8]*** (Only when in AP shift mode)
AP SCROLL FRUIT DOWN	***[9]*** (Only when in AP shift mode)
AP HUD	***[0]*** (Only when in AP shift mode)
AP ACTIVATE/DEACTIVATE	***[Y]***
REEL forward	***[4]***
REEL aft	***[5]***
REEL up	***[6]***
REEL down	***[7]***
REEL speed increase	***[9]***
REEL speed decrease	***[8]***
SHIFT MODE	***[,]*** (REEL/CAMARA/MIRRIR/AP modes available)
UNLOAD GRAIN ON/OFF	***[n]*** (Only works when You drive the combine, and pipe is extended)
OPEN/CLOSE grain tank	***[k]*** (Only for EU version of the CIH 2388)
GEAR UP	***[Keypad /]***
GEAR DOWN	***[Keypad 3]***
Hydro level UP	***[Keypad +]***
Hydro level DOWN	***[Keypad -]***
Hydro TO NEUTRAL	***[Keypad *]***
DEACTIVATE Hydro	***[z]***
HANDBRAKE	***[space]***
IGNITION ON/OFF	***[Keypad ,]***
FRONT STAIRCASE	***[G]***

MANUAL HEADER LIFT	***[Keypad enter]***
MANUAL LIFT	***[Keypad 8]***
MANUAL LOWER	***[Keypad 2]***
ACTIVATE THRESHER	***[l]***
THRESHER RPM INCREASE	***[Keypad 7]***
THRESHER RPM DECREASE	***[Keypad 9]***
GRAIN TYPE SELECTOR	***[.]***
MOUNT/DISMOUNT chopper	***[b]*** (Done from outside the combine)
SERVICE LADDER	***[u]*** (Done from outside the combine)
SERVICE/FIX COMBINE	***[h]*** (Done from outside the combine)
ACKNOWLEDGE FIX	***[y]*** (Done from outside the combine)
DECLINE FIX	***[n]*** (Done from outside the combine)
DIGITAL DISPLAY MODE	***[m]*** (Will shift the digital display from showing Thresher RPM to speed)
CaseIH 2388 HUD	***[enter]***
ROUNDLIGHT	***[r]***
ENGINE ON/OFF	***[Keypad ,]***
HEADER COUNT INCREASE	***[t]***
HEADER COUNT DECREASE	***[u]***
DELETE Helper Course	***[x]*** (Only possible when helper is disengaged)