JOHN DEERE HARVEST AUTOMATION / GETTING STARTED CHECKLIST

☑ START HERE

- ☐ **Create a digital account**
  Manage your farm operations efficiently with John Deere Operations Center™, an online platform that connects your machines, implements, and data.

- ☐ **Download Operations Center Mobile & log in from mobile device**
  Operations Center Mobile provides remote management of your field operations and equipment.

- ☐ **Download Equipment Mobile**
  The Equipment Mobile app allows you to manage, maintain and keep your equipment running.

U Items with this combine icon are required for Ultimate; Encouraged but optional for Premium License

❄ PRE-SEASON

- ☐ **Add equipment (combines) and implements (headers), including offsets**
  Build an accurate, up-to-date list of your connected machines, implements, and support vehicles.

- ☐ **Activate Ultimate or Premium Combine License**
  To activate your purchased G5 Display License, use License Manager within Operations Center. If you need assistance, contact your dealer.

- **U** ☐ **Create all fields you will farm this season**
  Know the precise location of every field, and assign field names, so your operators know where and what to do, and you can track accurate field data.

- **U** ☐ **Create boundaries and headlands for all fields**
  Active boundaries help you better control equipment and keep work on track, so you gain efficiencies and improve accuracy.

- ☐ **Create guidance tracks for all fields**
  Guidance lines help you better control equipment and keep work on track, so you gain efficiencies and improve accuracy. Review any existing AutoPath™ guidance lines, if applicable.

- **U** ☐ **Create harvest Work Plans for all fields**
  Create harvest work plans to improve efficiency, increase yields, and provide insights for better planning.

- **U** ☐ **Send Work Plans to equipment**
  By sending work plans to operators, they'll save time in the cab. Upon entering the field and confirming the work plan, and they're ready to begin.

- ☐ **Install Machine Sync antennas onto all combines & grain cart tractors**
  Machine Sync enables automatic positioning and speed of the grain cart tractor when traveling alongside combine while unloading on the go. Boosts productivity of the harvesting step.

- ☐ **Update pre-harvest display & controller software**
  Ensures latest software outfitted onto customer equipment permitting for advanced features and functionality. Also ensure latest software and tractor updates are equipped to grain cart tractors.

- ☐ **JDLINK™[1] activated on all equipment**
  Wirelessly and automatically send work plans and performance data amongst the equipment fleet as well as with Operations Center.
  [1] Only for compatible machines in your Organization and in supported countries.

Reference Images:
Image A

Image B

⊙ IN THE CAB

- ☐ **Enable Data Sync - Work Data**
  Auto-populate your machine in-field with your latest setup data to save time, increase accuracy, and reduce operator mistakes.

- **U** ☐ **Accept received Work Plans**
  Once accepted, work plans are visible to operators in the cab. Machine must be within field boundaries.

- ☐ **For Premium without Work Plan: Setup the display**
  Import and apply your setup files on the display, including client, farm and field as well as year.

- ☐ **For Premium without Work Plan: Verify set-up of the machine and implement is correct**
  Populate your machine type, model, and offsets (header width).

- ☐ **Setup AutoTrac™ Turn Automation & define boundary offsets**
  AutoTrac Turn Automation gives you a complete solution for accurate and repeatable end-of-pass turns throughout the entire field.

- ☐ **Setup AutoPath (Rows or Boundaries)**
  AutoPath creates guidance tracks for the entire field using crop row data recorded during the first pass through the field, whether that be a fertilizer application, tillage, or planting pass.

- ☐ **Setup In-Field Data Sharing**
  (if more than one machine will be working in the same field) In-Field Data Sharing allows you to share maps and guidance lines and review the performance of multiple machines working in the same field.

- ☐ **Choose suggested defaults from harvest setup**
  This utilizes the John Deere machine fleet database with providing starting recommendations to combine settings and acceptance limits.

- ☐ **Setup resume preferences and customize the Hydro-Handle button preferences to your comfort**
  Overview the auto header toggles/assignments. Customize 1-2-3 button controls for header height and automation for operator convenience. Popular assignments to the hydro-handle buttons enabling quicker automation engagement are shown in the provided images A & B to left.

- ☐ **Set cart home points for Machine Sync and setup network**
  Requirements for Machine Sync functionality. Completing these steps will enable push-button enablement of solution when unloading on the go.

- ☐ **Select AutoPath Guidance Tracks**
  If applicable, choose AutoPath onto the display from available trackset options.

- ☐ **Turn on AutoTrac™**
  Ensure all steps for setup and all three pieces of the pie-chart are showing ready for AutoTrac engagement.

- ☐ **Input max ground speed limit and engine load limit**
  Selected from the Harvest Automation run page, these will tell the automation maximum operational preferences of ground speed and/or engine load.

- **U** ☐ **Update predictive yield background map color scaling to your preference**
  Select the map legend and enter the yield ranges to assign unique coloring to so corresponds accordingly when viewing the map.

- ☐ **Choose the unloading on-the-go mode that fits your operation**
  Choose between either Variable (default), Offset, or Fixed. Note variable is suggested for greatest productivity results.

- ☐ **Confirm ground speed status LED indicator is green**
  Otherwise system will not engage until sufficient prerequisites are satisfied. Refer to diagnostic window for further guidance if LED is either orange or red.

- ☐ **Confirm/Set acceptance limits of grain loss, foreign material, and broken grain that meet your grain quality preferences[2]**
  These inputs are drivers for Harvest Settings Automation to make internal combine setting adjustments whenever exceeded.
  [2] Running too low of limits will negatively impact productivity.

▶ BEGIN HARVESTING

- ☐ **Ground truth grain loss**
  Use Grain Loss Calculator from within Equipment Mobile to quantify loss. This information will be inputted into the system in next step.

- ☐ **Use grain loss limit setting tool**
  Using the grain loss limit setting tool within the Harvest Automation page of the combine display will output what value the grain loss acceptance limit should be set.

- ☐ **Confirm acceptance limits of broken grain and foreign material is delivering desired grain quality outcomes[3]**
  Visually check grain tank sample or refer to live camera feed of clean grain elevator samples from Harvest Automation run page.
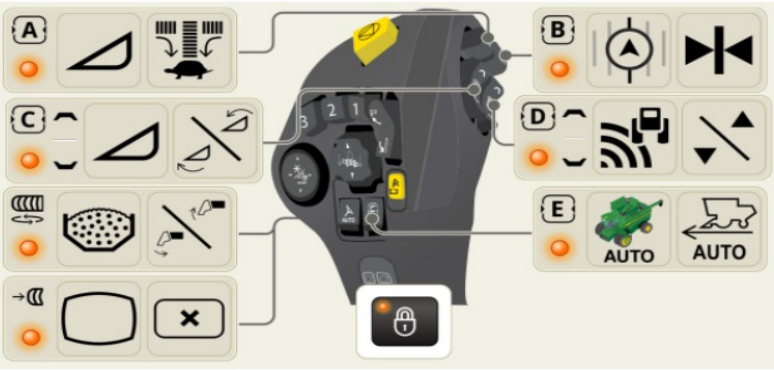 [3] Utilizing acceptance limit values too low will negatively impact productivity

JOHN DEERE