Training Manual



T670 SERIES COMBINE



OUR DEALERSHIP LOCATIONS

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WALKER COMBINE SETTING TIPS AND TRICKS

- Set the combine to recommended initial settings for the grain you are going to harvest
- Use the Operator's Manual, Crop Settings and Configuration Guide, Quick Reference card, GoHarvest App or the Touch Set Control on the combine
- Harvest until the separator is completely full, up to 100 feet before you start to do your preliminary tests
- Check your four key indicators
 - Straw Condition, Grain Tank Sample, Tailings and Grain Loss at the rear of combine either the shoe or the walkers
- Try to maintain as long of straw as possible and still get the grain out of the head
 - Start with concave tighter than the recommended settings, fill combine, stop, and check for kernels in the heads or pods
 - If some kernels/seeds are left, pull up the concave at increments of 1 until the kernels are gone and you have as long of straw as possible
- Do drop box checks, then use the seed loss charts in Operator's Manual or GoHarvest App
- Don't be fooled by pre-harvest grain loss that's already on the ground before the combine passes the test area
- Use the Combine Operator's Manual or the GoHarvest App to walk you through setting your combine

The goals are to have an acceptable grain tank sample, very little grain loss at the rear of the combine at acceptable ground speeds (both on the shoe and the walkers) and very low tailings and the longest straw length possible out the rear of the combine.

TIPS FOR INITIAL ADJUSTMENTS ON A WALKER COMBINE

WHEN CROP IS TOUGH:

Concaves: on the tighter side of the initial adjustments **Cylinder Speed:** on the high side of the initial adjustments **Fan Speed:** on the high side of the initial adjustments **Shoe Settings:** at the larger openings of the adjustments

WHEN CROP IS DRY:

Concave: on the tighter side of initial adjustments; If the straw is breaking up and the cylinder speed is slowed right down, open the concave and leave enough room to open if you plug

Cylinder Speed: on the low side of the initial adjustments

Fan Speed: on the high side of the initial adjustments

Shoe Settings: at the mid-range openings of the adjustments

HOW TO MAKE ADJUSTMENTS ON A WALKER COMBINE

The following adjustments are not final. You will have to continue to adjust the combine accordingly throughout the day. Always be sure to only make **ONE** adjustment at a time after the initial settings are made.

- Adjust Rotor speed by 30 RPM increments
- Adjust Cleaning Fan speed in 30 RPM increments
- Adjust Concave in 1/8" increments or one number at a time on the display read out
- Adjust Chaffer and Clean Grain Sieve in 1/8" increments or one number at a time on the display readout
- Be aware if you close the Chaffer, you may have to reduce the Cleaning Fan speed
- Be aware if you open the Chaffer, you may have to increase the Cleaning Fan speed
- Remember: The Chaffer is for cleaning & the Clean Grain Sieve is for sizing
- If in doubt of settings, use the rooster tail or rainbow effect of the chaff coming out of the shoe area to set the Fan speed
- If you are not sure of Fan Speed, use the tailings indicator on the corner post. Increase the Fan speed until VisionTrak starts to rise suddenly, then reduce the Fan slowly until the indicator drops. Run three to four bars of tailings

USE THESE FOUR KEY INDICATORS TO SET A COMBINE:



- 1. Straw Condition, as long as possible
- 2. Check Grain Tank Sample (work with your grain buyer)
- 3. Check amount of Tailings
- 4. Check Cleaning Shoe losses (chaffer and sieve area) and Tine Separator Area losses

Be aware of pre-harvest losses when checking for losses behind the combine.

Power shut down procedure in the Operator's Manual or GoHarvest App can also be used to diagnose what the combine is doing to help you make the settings needed to set your combine. It is only recommended when acceptable loss levels cannot be achieved.

Use a drop box so you know exactly what is being thrown over and from where.

All the above suggestions are irrelevant if the concave is not levelled and proportioned to the cylinder. This adjustment should be made before the start of a new harvest season to ensure maximum productivity of your combine.

If the swath you are picking up is intertwined and butts of grain would feed in first it is almost impossible to clean up the sample, ideally you want the heads to be feeding in first.

When straight cutting, if the heads and stand of straw are hanging sideways to your direction of travel, you will have a hard time cleaning up the sample. If crop is standing straight things will work fine.

Do not pull your power meter to the red zone for extended periods of time. Doing so will cause your grain tank sample to go dirty very quickly.

CONCAVE FILLER PLATES AND BOOSTER BARS

T670: Leave out until you determine if you need them. (Excessive partial heads in the grain tank in Hard Red Spring Wheat or awns left on in Barley.)

MY16 and older: Turn the T- handle counter-clockwise to engage the filler plates in the front three bars of the concave. For hard-to-thresh crops, an optional Booster Bar is available. This will make the concave more aggressive on the material moving into the threshing area of the combine.

MY17 and newer: There is a lever instead of a T-handle outside the combine to install or remove the concave filler plates. The Booster Bar is installed on the front of the concave from factory, it can be moved in and out of position with a 24 mm wrench.

IN-FIELD PERFORMANCE OPTIMIZER

OPERATION OF CONCAVE DE-AWNING PLATES



- Turn handle counter clockwise until limit to close plates
- Turn handle clockwise until limit to open plates
- Always clean out concave through stone trap after opening de-awning plates



This photo shows plates in closed position







T670 SEPARATOR AND CLEANING SHOE SETTINGS

	THRESHING SPEED	FAN SPEED	THRESHING CLEARANCE	CHAFFER POSITION	SIEVE POSITION	PRECLEANER POSITION
ALFALFA	600	770	0	12	3	0
BARLEY	900	1050	8	16	5	5
CANOLA	450	750	25	10	5	0
EDIBLE BEANS	170	100	25	16	11	0
FLAX	900	900	6	12	3	3
GRASS SEED	1000	500	8	12	4	0
LENTILS	400	760	15	18	12	0
MUSTARD	750	750	7	10	5	0
NAVY BEANS	170	1000	28	16	11	20
OATS	950	900	12	16	6	3
PEAS	380	1100	30	16	10	6
RYE	900	1100	10	16	6	6
SOYBEANS	550	1000	30	16	10	6
SUNFLOWER	350	1000	40	12	6	3
WHEAT	1000	1200	4	16	6	6
TRITICALE	900	1100	6	16	6	6
CHICKPEAS	600	1000	20	15	10	0
LUPINS	500	1100	25	16	6	0

T670 SETUP OF FUNCTIONAL COMPONENTS

CROP	FEEDER- HOUSE CONVEYOR SPEED	FEEDER- HOUSE DRUM POSITION	T SEPARATOR ROTOR SPEED	T SEPARATOR GRATE POSITION	CHOPPER ROTOR SPEED (PREMIUM)	CHOPPER COUNTERKNIVE POSITION (PREMIUM)	CHOPPER SPARE BAR POSITION (PREMIUM)
BARLEY	26T	Down	Closed	Closed	3600 RPM	As Required	Up
EDIBLE BEANS	22T	Down	Wide	Wide	3600 RPM	Out	Up
GRASS SEEDS	16T	Down	Closed	Closed	3600 RPM	As Required	Up
OATS	16T	Down	Closed	Closed	3600 RPM	As Required	Up
PEAS	22T	Up	Wide	Wide	3600 RPM	As Required	Down
CANOLA	26T	Up	Wide	Wide	3600 RPM	Out	Down
RYE	26T	Down	Closed	Closed	3600 RPM	As Required	Down
SOYBEANS	26T	Down	Wide	Wide	3600 RPM	Out	Down
SUNFLOWER	26T	Down	Wide	Wide	1900 RPM	Out & Covered	Down
WHEN - SPRING (DIFFICULT)	26T	Down	Closed	Closed	3600 RPM	As Required	Up
WHEAT - WINTER (NORMAL)	26T	Down	Closed	Closed	3600 RPM	As Required	Up
TRITICALE	26T	Down	Closed	Closed	3600 RPM	As Required	Up

SEPARATOR AND CLEANING SHOE SETTINGS



CANOLA



Automatic combine adjustment settings





2630 T-SERIES HARVEST SETUP

This setup sheet is meant to be used when setting up a T-Series combine with a 2630 display on the armrest or with two 2630 displays or 2630 with a 7" touch screen on armrest.

ON THE ARMREST 2630 IF USING SINGLE DISPLAY OR ON THE 2630 MOUNTED IN THE UPPER RIGHT CAB CORNER WHEN USING DUAL DISPLAYS

Step 1: Complete the setup of GS3 resources. Press Main Menu, press GS3, press Resources (G). Fill in your Client, Farm, and Field on the left of the screen. Select Harvest in the drop-down menu beside Task. Change the crop season to the current year.

Step 2: Setup the Equipment button. Press Equipment (H), impress the Machine tab on the top of the screen, confirm that the machine type, model and name on the left of the screen are filled in and that there are offsets filled into the right of the screen. Press the Header tab at the top of the screen, fill in the implement type, model, and name on the left of the screen, press Change Offsets **Change** on the right and fill in the header offsets using the following chart and then press Accept.

	615P	600D	600FD	600F
OFFSET A	0 FT.	0 FT.	0 FT.	0 FT.
OFFSET B	8 FT.	7 FT.	6 FT.	4.5 FT.
OFFSET C	0 FT.	0 FT.	0 FT.	0 FT.
OFFSET D	8 FT.	7 FT.	6 FT.	4.5 FT.

Press Change Widths on the bottom of the screen and fill in the desired track spacing (for pickup header, use the track spacing from the swather, for straight cut header with SF1 receiver use half a foot less than the header width) press Accept.

Step 3: Setup the Documentation screens. Press Document (I), Change Harvest Settings Change Harvest Settings and fill in the Crop Type and Variety. These are the 2 areas that must be filled in for proper operation, all of the other areas can be left blank or filled in if more documentation data is desired. Press Accept, it is recommended that the load name and load destination are filled in and the check mark is put in the box beside Auto Increment Load Number.

Make sure that the only tabs on the top of the screen are "Harvest" and "New". If there are any other tabs named on the top of the screen, press on them and then press the "Remove" button on the lower left corner of the screen.

ON THE 2630 OR 7 INCH TOUCH SCREEN ON THE ARMREST

Step 4: Navigate to the combine main screen. Press Main Menu on the lower right corner of the screen, then the combine icon, where the combine icon again in the top right corner of the screen.

Step 5: Setup moisture meter. Press the setup button "H" 🚺 press the moisture setup button "I" 🔝

confirm that the check mark is in moisture alarm off, or if the moisture alarm is turned on, make sure the customer has setup the minimum and maximum moisture as desired. Ensure the check mark is beside moisture correction (not fixed moisture) so the moisture sensor is turned on, check that yield units on the bottom of the screen is set to "Bushels."

Step 6: Setup Residue Management. Press the residue management button "C". In this screen, check that the separator vanes (variable stream rotor only) have a check mark beside "standard" position for most crops except dry canola or peas. If the combine is equipped with the premium residue system, check the position of the chop or drop door depending on customers preference (check mark beside chop or drop straw).

Step 7: Use Automatic Crop Adjustment to set the combine initial settings. Press the ACA setup button "G" engage the separator and bring the engine up to full throttle, select "Default" in the drop down menu on the upper right area of the screen, and then press the "Auto" button on the lower left-hand corner. The combine will set itself to the desired settings. *Note: If the combine does not reach the desired rotor speed you may have to turn the separator off and shift the two speed shifter on the rear of the rotor to another speed. Turn the separator off and return the engine to idle.*

Step 8: Setup the header minimum reel speed, width, and width change. Press the combine button "F" in the upper right-hand corner, then press the header setup button "I" put in the desired minimum reel (or

pickup belt) speed beside "Min Reel Speed", put in the header width beside "Width", put in the desired width change beside "Width Change." **Note:** width change is used when you (or the GPS) change the header width during operation in a narrow area of the field where a full width swath is not present. Raise the header up off the ground to the desired recording stop point (should be below the "out of crop" position set on #1 on the hydro handle) and press the enter button beside "Record Stop Height."

Step 9: Setup Active Header Control. Press the Auto button "H" in this down on the right-hand side) place a check mark in the box above Active Header Height Sensing in the box above Active Header Height Sensing in the aders, place a check mark above Header Height Resume in the box above Active Header Height Sensing in the ader float in the box above Active Header Height Sensing in the ader float in the box above Active Header Height Sensing in the ader float in the box above Active Header Height Sensing in the ader float is a specific the ader float in the ader float is a specific the ader and only if desired, place a check mark above Dial A Speed. If ground speed matching of the pickup belts or reel is desired, place a check mark above reel position resume. If the header is equipped (all 600 series cutting platforms are) and only if customer desires to use that function, put a check mark above Contour Master is if the combine is equipped with feederhouse tilt.

Step 10: Make Adjustments and Calibrate Grain Loss Monitor. Make all adjustments needed to get acceptable threshing and grain loss results then press the combine button "F" in the top right corner, press the setup button "H" i (third button down on the right-hand side), press the crop setup button "H" i (third button down on the right-hand side). Drive the combine at the same speed and in the same crop conditions as earlier when checking settings and press the calibration button "D" below "Grain Loss Calibrate"

Additional Steps: Setup Guidance and Mapping screens as desired.

SETUP GUIDE FOR 7 INCH SCREEN

Step 1: Navigate to the Combine Main Screen: Press main menu **1** on the lower right corner of the screen, then the combine icon, when the combine icon again in the top right corner of the screen.

Step 2: Select the desired crop. Press the setup button "H" i (third button down on the right-hand side), and then press the setup crop button "H" i (third button down on the right-hand side) select the desired crop from the drop down list located below the word "Crop."

Step 3: Review the Moisture Alarms Screens. Press the moisture setup button "I" (fourth button down on the right-hand side) confirm that the check mark is in moisture alarm off, or if the moisture alarm is turned on make sure the customer has set up the minimum and maximum moisture as desired. Ensure the check mark is on beside moisture correction (not fixed moisture) so the moisture sensor is turned on, check that the yield units on the bottom of the screen is set to "Bushels"

Step 4: Setup Residue Management. Press the residue management button "C" (second button down in the left-hand column beside the "H" button). In this screen check that the separator vanes (variable stream rotor only) have a check mark beside "standard" position for most crops except dry canola or peas. If the combine is equipped with the premium residue system check the position of the chop or drop door depending of customer preference (check mark beside chop or drop straw).

Step 5 Use Automatic Crop Adjustment to Set the Combine Initial Settings. Press the ACA setup button "G" (second button down on the right-hand side), engage the separator and bring the engine up to full throttle, select "Default" in the drop down menu on the upper right area of the screen and then press the "Auto" button on the lower left-hand corner. The combine will set itself to the desired settings. Note: if the combine does not reach the desired rotor speed, you may have to turn the separator off and shift the two speed shifter on the rear of the rotor to another speed. Turn the separator off and return the engine to idle.

Step 6 Setup the Header Minimum Reel Speed, Width and Width Change. Press the combine button "F" is the upper righthand corner, then press the header setup button "I" is (forth button down on the right-hand side), put in the desired minimum reel (or pickup belt) speed beside "Min Reel Speed", put in the header width beside "Width", put in the desired width change beside "Width Change." Note: width change is used when you (or the GPS) changes the header width during operation in a narrow area of the field where a full width swath is not present. Raise the header up off the ground to the desired recording stop point (should be below the "out of crop" position set on #1 on the hydro handle) and press the enter button beside "Record Stop Height"

Step 7 Setup Active Header Control. Press the Auto button "H" in the box above Active Header Height Sensing in the box above Header Height Sensing in the box above Active Header Height Sensing in the box above Header Height Sensing Height Sensing in the box above Header Height Sensing Height Sensing in the box above Header Height Sensing Height Sens

Step 8 Make Adjustments and Calibrate Grain Loss Monitor. Make all adjustments needed to get acceptable threshing and grain loss results then press the combine button "F" in the top right corner, press the setup button "H" (third button down on the right-hand side), press the crop setup button "H" (third button down on the right-hand side). Drive the combine at the same speed and in the same crop conditions as earlier when checking settings and press the calibration button "D" below "Grain Loss Calibrate

Step 9: Setup Documentation. Using Documentation setup quick sheet.

ADJUSTING RECORDING STOP HEIGHT

Adjust the recording stop and start height using hot key number three by touching it three times to get to screen 3.

Manually adjust the header to the height you want the recording to shut off at. Highlight the enter button at the bottom right-hand corner of the CommandARM display and touch the check mark key on the CommandARM to save the settings.





T670 ARMREST CONTROLS





T670 COMMAND CENTER CONTROLS





T670 COMBINE CALIBRATION

- 1. Attach the header that is to be calibrated to the combine
- 2. Press Quick Button #4 on the Command Center display: Diagnostics & Calibrate
- 3. Press Quick Button #4 again to see calibrations
- 4. Rotate the dial on the CommandARM to highlight the box in the center of the screen, usually service hours will be the one shown in the box when calibration screen first opens
- 5. Press the check mark on the CommandARM to open all of the available calibrations
- 6. Rotate the dial until you find the one you want to calibrate, header in this case
- 7. Press the check mark button on the CommandARM to enter the calibration process for the one you have chosen
- 8. Follow the instructions on the monitor exactly to ensure a proper calibration
- 9. Once calibration is complete, accept it by making sure the enter button is highlighted on the display and then press the check mark button on the CommandARM
- 10. Press Quick Button #1 of the four buttons at the top of the Command Center to get to the run screen you want to be on. You have now completed the calibration process
- 11. Note: when you install a new header it will ask you to calibrate the feederhouse and then the header. You will do all of the combine calibrations from this area



COMMAND CENTER SETTINGS

The Farm and Field have to be filled in before Moisture and Bushel Per Acre will work.

* % * 2/4 *	
Crop Setup in GreenStar Display	
Seed Size	
Field Setup in GreenStar Display	

On a T670 combine when a GS2 2600/GS3 2630 Display is installed the Farm and Field must be set in the GS2 2600/GS3 2630 Display.

SHOWING DRY BUSHELS HARVESTED ON THE GO

1. Setup documentation, fill in the load name and destination then check off Auto Increment Load Number

2. Use Layout Manager to setup a home page that looks like this: (all sections are found in the GreenStar pages)

3. Press the circular arrows beside Field Totals to display Load Totals

- 4. Press the Configure button on the totals area of the screen
- 5. Select the area that you want to display your wet or dry weight (bushels). Select wet weight (bushels) from the drop down menu for that area of the totals screen layout. Once you have done this the wet weight (bushels) will display on the go and will zero out each time the unloading auger is swung out and the grain tank is unloaded. This can be helpful for the operator as they are informed how full the tank is before the level sensors are triggered
- 6. Layout Manager setting up what is displayed on the screen













BEST PRACTICE GUIDE: AUTOTRAC ON COMBINES

This guide will assist the operator in determining the best methods to operate AutoTrac on their combine which will optimize performance and increase combine capacity for their preferred farming methods.

Tips to Remember:

- AutoTrac is activated by pressing Resume button 2 or 3 on the hydro handle
- If cutting lands, do not use the Shift Track feature to clean up any areas of the field. Doing this may result in a platform width, which is less than full at the end of the field
- If cutting lands, the GPS accuracy indicator should be 80% or higher (see the information bar on the RUN Page in the left bottom corner)
- The combine must be moving forward above 1.5km/hr for AutoTrac to activate

Headlands:

A headland will need to be cut at each end of the field for turning. The number of cuts for the headland will depend on the operator's turning preference. In order to perfectly lineup the combine to its next track, a large headland (i.e. four cuts) is beneficial so that you do not have to back up to line up with the next A-B line.

Setting up a Straight Track:

There are several methods of setting a straight track, which the operator can choose from.

Before starting, decide how you want to cut the field from the list below. The tips will then assist in setting up the track.

- 1. Follow tramlines
 - i. Align combine with tramline at the beginning of the cut and save point A. Drive combine approximately 100 meters and save point B, then continue with AutoTrac activated
- 2. Use the straightest edge of the field
 - i. Position the combine at your desired start point and save point A. Manually drive approximately 100 meters, following the edge of the field to point B (in a straight line), save point B
- 3. Drive between a preferred point A on one side of the field, and B on the other side
 - i. While cutting the headland, save point A on one side of the field and point B on the other side of the field
- 4. When setting up the A-B lines it is recommended to use A + heading. This makes it much easier when more than one combine is working in the field to get all of the combines on the same A-B lines
- 5. In APEX/Operations Center, you can preset A-B lines that can then be on all combines when they arrive at the field



Shift Track Function:

- Shift track is designed to compensate for satellite drift. Use it if the track has drifted
- Drift is usually noticed if land is cut and left for a few hours. In such case it may be necessary when returning to the land, to re-center the machine at the beginning of the cut
- Do not use this feature to compensate for overlap and skip. This can only be prevented by adjusting Track Spacing (platform width). Check your StarFire receiver or platform offset in your monitor if you are continuously using shift track
- Use the feature to correct for differences, if you drive with an additional combine (convoy), which does not have AutoTrac and may be a different platform width

Methods of Turning Into the Cut:

Drive the combine past 45 degrees in the direction you want to cut, close to the track you want to follow.

- 1) Activate AutoTrac (resume button 2 or 3) and let the system guide the combine to the track
 - The combine needs to be within 3 meters of the desired track for the system to find it. The turning view screen on the GreenStar display can be used to assist in finding the track
 - AutoTrac will need to be activated no less than 10 meters from the crop to allow the system time to steer on track
 - This method works better if an additional cut is taken from the headland, otherwise corners may be missed at the ends while AutoTrac is aligning to the path

Determining Track Spacing:

Track spacing is determined by the width of the platform, the levelness of the field, cutting lands, the performance of the system, and the comfort level of the operator.

- An initial setting of 30 cm (12") less than the platform width is a good starting point. Note: 600 series platforms are true width in feet, i.e. a 630R has exactly a 30-foot cut (1 foot = 30.48cm)
- If cutting lands on hilly ground, a setting of approximately 50cm (20") less than the platform width may be needed
- Different values can be used and may be preferred by the operator





BRANDT WALKER COMBINE SERVICING TIPS

Contour Master Feederhouse: Check and clean out pinch points for packed material, which could prevent the header from tilting completely.

Platform Attaching Pins: Clean out and make sure these can move freely.

Variable Speed Feederhouse Drive: Grease upper and lower sheaves every 50 hours. There are two grease fittings on each sheave. After greasing, run the feederhouse speed up and down a few times to distribute grease to the cams.

Platform Hydraulic Pump Drive: Grease every 400 hours or yearly.

• It has a large cavity, and we recommend greasing with six shots of TY6341 grease every 50 hours during the season.

Primary Countershaft Gear Case: 80W90 or 85W140 gear oil, change yearly.

• 80W140 Synthetic gear oil - change every two years

T670, Tine Separator Gear Case: Check every 400 hours or yearly, use 80W90, 85W140 or 80W140 Synthetic.

Vertical Unloading Auger Bearing: Grease yearly or every 400 hours. Give it a lot of grease.

Unloading Auger Turret Gear Case: Grease with at least 12 shots every 400 hours or yearly.

Rear Axle Spindle Bearings: Grease every 50 hours.

Rear Wheel Hubs: Grease every 400 hours or yearly.

Straw Chopper Upper Drive Sheave: Grease every 400 hours or yearly. The nipple is in the sheave and may be hard to see.

Straw Chopper Jackshaft: Grease every 400 hours or yearly

• Every 50 hours in heavy straw load conditions

Straw Chopper Bearings: Grease every 400 hours or yearly.

- Grease every 50 hours in heavy straw load conditions
- Newer T670's without grease nipples have been greased for life. Do not grease

Hydraulic/Hydrostatic Oil: Check with the header on the ground.

• Top up with John Deere HYGARD

Fuel Strainer & Fuel Filters: Drain water every 50 hours from strainer. Change the filters yearly.

Radiator: Clean every 50 hours or as needed. Check coolant level daily.

• Top up with premixed COOL GARD II

Mass Flow Sensor: Clean weekly or every 50 hours

Intermediate Drive Sheave Gap: Adjust if maximum speed cannot be reached. Gap should be 1/4".

Intermediate Cylinder Drive: Run cylinder to its highest RPM. At the start of each season, remove the breather plug and add grease into the fitting under the cage until grease comes out of the breather.

• Grease the two outer fittings every 400 hours or yearly

Conveyor Auger Slip Clutch: Grease with one or two shots every 200 hours. Do not over grease.

Tire Pressures: Front and rear, check every 50 hours.

Wheel Bolt Torque: Check after your first 50 hours and then every 200 hours following.

Stone Trap: Clean out daily or more often in stony conditions.

ICON REFERENCE GUIDE







FILTER OVERVIEW AND CAPACITIES

Click Here to Open Full Size Filter Overview and Capacities Chart



CAPACITIES (Approximate): Fuel Tank:

	800 L (210 gal)
Cooling System with Heater: Cool-Gard™ II	
	45 L (11.88 gal)
Engine Crankcase with Filter: Plus-50™ II	
3-speed Transmission (Mechanical and Pl GL-5 or Extreme-Gard™	BST):
	9.6 L (2.53 gal)
3-speed Transmission (ProDrive™): Low Viscosity Hy-Gard™ or Hy-Gard™	
	13 L (3.43 gal)
Feeder House Reverser GearCase: GL-5 or Extreme-Gard™	2.0.1 (0.52 col)
Countershaft Drive GearCase: GL-5 or Extreme-Gard™	
	1.2 L (0.32 gal)
Cylinder Drive Reduction Gear:	1.2 L (0.32 gal)
Engine Coor Coop (Without ProDrive M);	
Low Viscosity Hy-Gard™ or Hy-Gard™	
	16 L (4.22 gal)
Engine Gear Case (With ProDrive™): Low Viscosity Hy-Gard™ or Hy-Gard™	
	20 L (5.28 gal)
Hydrostatic / Hydraulic Oil Reservoir: Low Viscosity Hy-Gard™ or Hy-Gard™	
	45 L CT 86 dal-

Loading Auger Gear Case on Clean Grain E GL-5 or Extreme-Gard™	levator:
	3 L (0.79 gal)
Straw Walker Drive Gearcase: John Deere Corn Head Grease	
Final Drives, 10-bolts (Each): GL-5 or Extreme-Gard™	7.0 L (1.85 gal)
Final Drives, 20-bolts (Each): GL-5 or Extreme-Gard™	25 L (6 6 gol)
Diesel Exhaust Fluid (DEF) Tank: John Deere™ Diesel Exhaust Fluid	32 L (8.45 gal)
Overshot Beater Gearcase: GL-5 or Extreme-Gard™	0.9 L (0.24 gal)
Rear Axle Differential (Powered Axle Only): GL-5 or Extreme-Gard™	24.5 L (6.47gal)
Rear Axle Reduction (Powered Axle Only): GL-5 or Extreme-Gard™	0.7 (0.10 gal)
Rear Axle Wheel Hub (Non-powered Axle Ol GL-5 or Extreme-Gard™	nly):
Water Tank (If Equipped):	0.5 L (0.13 gal) 10 L (2.64 gal)
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APPENDIX

BRANDT CUSTOMER PORTAL

CLEANING GUIDE

FILTER OVERVIEW & CAPACITIES

OPERATOR'S MANUAL



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