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Part No. 493594

Rev. 1403140331



SECTION 1 - INTRODUCTION

The following patent decal is located on the front of the attachment and provides current patents issued on your Detasseler Tool Bar (DTB).

NOTE: Hagie Manufacturing Company reserves the right to make changes to any current patents or patents pending at any time, without notice.



Hagie Manufacturing Patent Decal (Located on the front of attachment)

A WORD FROM HAGIE MANUFACTURING COMPANY

Congratulations on the purchase of your Detasseler Tool Bar (DTB) attachment! We recommend that you review this operator's manual and become familiar with operating procedures and safety precautions before attempting to operate your DTB.

As with any piece of equipment, certain operating procedures, service, and maintenance are required to keep your DTB in top running condition. We have attempted herein to cover all of the adjustments required to fit varying conditions. However, there may be times when special care must be considered.

NOTE: The user is responsible for inspecting the attachment and having parts repaired or replaced when continued use of the product causes damage or excessive wear to other parts.

Hagie Manufacturing Company reserves the right to make changes in the design and material of any subsequent DTB without obligation to existing attachments.

Thank you for choosing a Hagie DTB and we ensure you of our continued interest in its satisfactory operation for you. We are proud to have you as a customer!

ABOUT THIS MANUAL

A CAUTION

READ OPERATOR'S MANUAL BE ALERT LEARN TO OPERATE THIS MACHINE SAPELY OBSERVE ALL SAPETY PRACTICES. MACHINES GAN BE HAZARGOUS IN THE HANDS OF AN UNFAMILIAR, UNTRAINED, OR COMPLACENT OPERATOR. SHUT OFF ENGINE BEFORE SETVICING. WHEN MACHANISM BECOMES CLOGGED, SHUT OFF ENGINE BEFORE CLEANING, DON'T RISK INJURY OR DEATH.

NOTICE

Any pictures contained within this operator's manual that depict situations with shields, guards, rails, or lids removed are for demonstration only. Hagie Manufacturing Company strongly urges the operator to keep all shields and safety devices in place at all times.

NOTICE

The purpose of this manual is to guide you in operating the DTB attachment. Read this manual in addition to the sprayer operator's manual, and all other literature that is included with the machine.

This manual is only intended to cover the DTB attachment and any differences in the operation of the sprayer controls. Refer to your sprayer operator's manual for complete instructions on machine operation.



NOTICE

Reference to right and left-hand used throughout this manual refers to the position when seated in the operator's seat facing forward.

This manual will aid you in the proper operation and service of your DTB attachment. It is the responsibility of the user to read the operator's manual and comply with the correct and safe operating procedures, as well as maintain the product according to the service information provided in the *Maintenance and Storage* section elsewhere in this manual.

Photographs and illustrations used in this manual are of general nature only. Some of the equipment described and/or shown may or may not be available on your attachment.

Information described in this manual was correct at the time of printing. Because of Hagie Manufacturing Company's continuous product improvement, certain information may not be included in this manual. To obtain the most current operator's manual for your attachment, please visit www.hagiehelp.com.

Keep this manual in a convenient place for easy reference, should problems arise. This manual is considered a permanent fixture of the product. In the event of resale, this manual should accompany the DTB.

If you do not understand any part of this manual or require additional information or service, contact Hagie Customer Support for assistance.

SAFETY MESSAGES USED IN THIS MANUAL

The following safety messages found throughout this manual alert you of situations that could be potentially dangerous to the operator, service personnel, or equipment.

DANGER

This symbol indicates a hazardous situation which, if not avoided, will result in serious injury or death.

A WARNING

This symbol indicates a potentially hazardous situation, which if not avoided, could result in serious injury or death.

A CAUTION

This symbol indicates a potentially hazardous situation, which if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTICE

This symbol indicates operator awareness, which if not avoided, may result in personal or property damage.

NOTE: A "Note" is intended to make special mention of, or remark on.

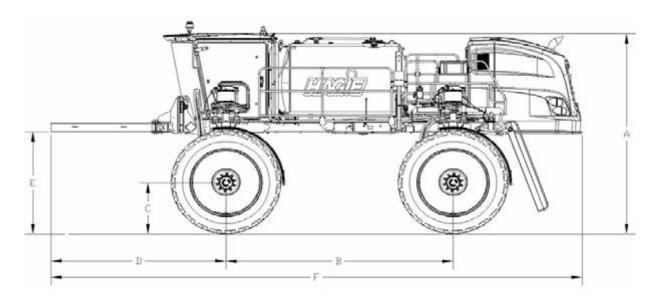
SERVICE AND ASSISTANCE

For service and assistance, please contact:

Hagie Manufacturing Company 721 Central Avenue West P.O. Box 273 Clarion, IA 50525-0273 (515) 532-2861 OR (800) 247-4885 www.hagiehelp.com



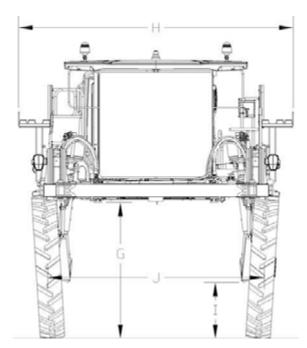
SPECIFICATIONS



Detail	Description	Specification
A	Overall Sprayer Height (from top of cab) NOTE: Sprayer height dimension does not include the cab-mounted rotating beacons or the optional GPS unit.	154"/391.2 cm **
В	Wheel Base	• 140"/355.6 cm (Short Frame) • 166"/421.6 cm (Long Frame)
С	Static Loaded Hub Height	38 3/8"/97.5 cm **
D	Length (from front of tool bar to center of wheel hub)	• 80.5""/204.5 cm (6 Row) • 128.5""/326.4 cm (8-10 Row) • 186.5"/473.7 cm (12-18 Row)
E	Height (from bottom of tool bar to ground)	75.75"/192.4 cm **
F	Overall Sprayer Length (from front of tool bar to rear hood)	 315.5"/801.4 cm (6 Row, Short Frame) 341.5"/867.4 cm (6 Row, Long Frame) 363.5"/923.3 cm (8-10 Row, Short Frame) 389.5"/989.3 cm (8-10 Row, Long Frame) 421.5"/10 m (12-18 Row, Short Frame) 447.5"/11 m (12-18 Row, Long Frame)
G	Frame Clearance (to tread adjust bolts)	74"/188 cm **
Н	Width (boom cradles)	• 153"/388.6 cm (90/100' boom)
1	Lower Leg Clearance (from shield)	31"/78.7 cm **
J	Tread Width *	• 122"/310 cm (In) ** • 154"/391.2 cm (Out) **



- * Tread width is measured at half (1/2) the tire height.
- ** Refer to "Tire Specifications" provided in the machine operator's manual for a complete listing of tire options when configuring specifications on your model.



NOTE: Dimensions may vary according to tire options.

General Information

- **Frame Type:** 4x8" (10.2x20.3 cm) modular platform frame
- **Suspension:** 4-wheel, individual, auto air-ride
- Approximate Dry Weight:
 - * 3,204 lbs./1,453 kg (8-10 row tool bar)
- Shipping Width:
 - * 153"/388.6 cm (90/100' boom cradles)

NOTICE

Because Hagie Manufacturing Company offers a variety of options, the illustrations in this manual may show a machine equipped other than standard. Height and weight do not consider options. Values may vary, depending on available equipment.



Item	Specification
General	
Monitors/Controls	 Detasseling Control Panel Tasseltrol®/LS System 12[™] Control Panel
General System	Light sensing system, depth command, electrical disconnect, hydraulic couplers
Outriggers	
• 12-Row	134"/340.4 cm (1 left, 1 right)
• 8-Row	75"/190.5 cm (1 left, 1 right)
Quad Pullers	
Number of Rows Available	6, 8, 10, or 12
Drive	Hydraulic
Tire Size	4.10/3.50 2-ply
Tire Pressure	10 PSI/.7 bar
Operating Speed	Up to 400 RPM
Cutters	
Number of Rows Available	6, 8, 10, or 12
Drive	Hydraulic
Blade Size	18"/45.7 cm
Operating Speed	Up to 3100 RPM



2014 PRODUCT WARRANTY

Hagie Manufacturing Company Product Warranty

Hagie Manufacturing Company warrants each new Hagie product to be free under normal use and service from defects in workmanship and materials for a period of lesser of: two (2) years or 1000 hours from the date of delivery on all Agricultural Products. Hagie Manufacturing Company makes this warranty from the original delivery date and is transferable to a purchaser from the original purchaser of this equipment, given there is remaining time left under the year and hour warranty standard stated above. This warranty shall be fulfilled by repairing or replacing free of charge any part that shows evidence of defect or improper workmanship, provided the part is returned to Hagie Manufacturing Company within thirty (30) days of the date that such defect or improper workmanship is discovered, or should have been discovered. Labor to repair said items will be covered by standard labor time rates. Freight charges of defective parts are not covered by this warranty and are the responsibility of the purchaser. No other express warranty is given and no affirmation of Hagie Manufacturing Company, by words or action, shall constitute a warranty.

Hagie Manufacturing Company limits its warranty to only those products manufactured by Hagie Manufacturing Company and does not warrant any part or component not manufactured by Hagie Manufacturing Company, such as parts or components being subject to their manufacturer's warranties, if any. Excluded from this warranty are parts subjected to accident, alteration, or negligent use or repair. This warranty does not cover normal maintenance such as engine tune ups, adjustments, inspections, nor any consumables such as tires, rubber products, solution system valves, wear parts, wiper blades, etc.

Hagie Manufacturing Company shall not be responsible for repairs or replacements which are necessitated, in whole or in part; by the use of parts not manufactured by or obtainable from Hagie Manufacturing Company nor for service performed by someone other than Hagie authorized personnel, unless authorized by Hagie Manufacturing Company. Customer acknowledges that it is not relying on Hagie Manufacturing Company's skill or judgment to select finish goods for any purpose and that there are no warranties which are not contained in this agreement.

In no event shall Hagie Manufacturing Company's tort, contract, or warranty liability exceed the purchase price of the product. The foregoing limitation will not apply to claims for personal injury caused solely by Hagie Manufacturing Company's negligence.

Hagie Manufacturing Company shall not be liable for damages, including special, incidental or consequential damages or injuries (damage and repairs of equipment itself, loss of profits, rental or substitute equipment, loss of good will, etc.) arising out of or in connection with performance of the equipment or its use by customer, and Hagie Manufacturing Company shall not be liable for any special, incidental or consequential damages arising out of or in connection with Hagie Manufacturing Company's failure to perform its obligation hereunder. HAGIE MANUFACTURING COMPANY'S ENTIRE LIABILITY AND THE CUSTOMER'S EXCLUSIVE REMEDY SHALL BE REPAIR OR REPLACEMENT OF PARTS COVERED UNDER THIS WARRANTY. THIS WARRANTY IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO THE IMPIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.



SECTION 2 - SAFETY AND PRECAUTIONS

Most accidents occur as the result of failure to follow basic and fundamental safety rules and precautions. Recognizing potential safety hazards, following correct and safe operating procedures described in this manual, and complying with safety warnings located throughout the machine and attachment may reduce the risk of accidents.

There is no way to completely eliminate the potential for danger when operating agricultural equipment. Therefore, you must study this operator's manual and understand how to operate the attachment controls for safe operation before using the attachment. Likewise, never let anyone operate the attachment without proper instruction.

Do not operate the attachment for anything other than its intended use. Hagie Manufacturing Company shall not be liable for any damage, injury, or death associated with improper use of the attachment.

Do not make any modifications such as weldments, add-ons, adaptations, or changes from the original design of the attachment. Such modifications may become safety hazards to you and others and will void all warranties.

Replace missing, faded, or damaged safety signs. Refer to "Safety Decals" elsewhere in this section for correct sign and placement.

SAFETY PRECAUTIONS

General Safety

- The hydraulic and electrical control systems are optimized for use with this attachment.
 Any modification to these systems may lead to unintended or uncontrolled motion. Do NOT install add-on control systems that are not approved by Hagie Manufacturing Company.
- Some conditions cannot be completely safeguarded against without interfering with efficient operation of the machine and/or

reasonable accessibility. In these cases, decals have been installed to provide the operator with hazard information.

Do NOT remove decals for any reason. If a decal is damaged or missing, contact the Hagie Customer Support Department for replacement.



Wear Protective Clothing

• Do not wear loose fitting clothing that could get caught in moving parts. Wear safety equipment that is appropriate for the job.



 Do not store chemical-soaked clothes in the cab. Clean off as much mud and dirt from your shoes as you can before entering the cab.

Be Prepared

- Be prepared for an emergency. Keep a fire extinguisher nearby. Keep a first aid kit and clean water in the cab.
- Make sure to service the fire extinguisher regularly. Keep an accurate inventory of supplies in the first aid kit and dispose of anything that has expired.





General Repair/Maintenance Safety

- Turn off sprayer engine before checking, adjusting, repairing, lubricating, or cleaning any part of the attachment.
- Disconnect the battery ground cable and turn the Battery Disconnect Switch OFF before servicing the electrical system or welding on the attachment.



Safe Hydraulic Maintenance

 Always practice personal safety when performing service or maintenance on the hydraulic system.



- Use caution when working around hydraulic fluid under pressure. Escaping fluid can have sufficient force to penetrate your skin, causing serious injury. This fluid may also be hot enough to
- Always lower the load or relieve pressure before repairing a hydraulic leak.
- Avoid torching, welding, and soldering near pressurized hydraulic lines. Pressurized lines may accidentally burst when

heat goes beyond the immediate flame area.



SAFETY DECALS

Decals warning you of avoidable danger are located on various parts of the attachment and cab area. They are there for your personal safety and protection. DO NOT remove them. They will fracture upon attempted removal and therefore, must be replaced.

Following are locations of important safety decals. Replace them if they are damaged or missing. All safety decals, instructional decals, or machine striping may be purchased through the Hagie Customer Support Department.

To replace safety decals, ensure the installation area is clean and dry and decide on exact position before you remove the backing paper.



Decal Locations

650178

(2) Quick-Tach



650218

(2) - One located on each end of combo attachment



650303

(Located on right-hand cab window)



650339

(Located on left-hand front cross member)



650379

(Located on right-hand cab window)

- * TO ENGAGE DETASSELING HEAD HYD MTRS:
- 1. Reduce engine speed to an idle.
- 2. Clear area of unauthorized personnel.
- 3. Turn individual motor control switches to "ON".
- 4. Slowly increase engine RPM to desired speed.

650819

(2) - One located on each side of cutter head deck





650820

(One located on each quad puller head)





SECTION 3 - OPERATING YOUR DTB

DETASSELING SYSTEM COMPONENTS

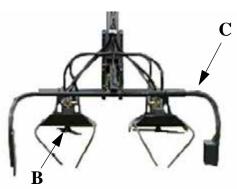
The Detasseling System is a constantly monitored and continuously adjusted system. The cab-mounted control system receives data from the photo light sensors to determine detasseling height.

The following information in this section explains the detasseling components and their operation. Read the following section entirely before operating the Detasseling System.

- (A) Detasseler Combo Attachment
- (B) Cutter Heads
- (C) LS System 12[™]/Depth Command
- (D) Quad Pullers
- (E) LS Photo Light Sensor
- (F) Detasseling Control Panel
- (G) Tasseltrol®/LS System 12 Control Panel
- (H) Main Control Switch
- (I) All-Up/Down Switches













F









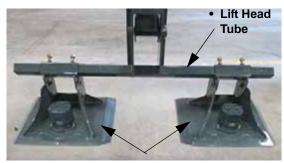
Cutter Head Assembly





NOTE: Refer to your Parts Manual for specific hardware used.

1. Install two (2) Cutter Heads on each lift head tube, as shown.



Cutter Heads - Typical View

2. Ensure each Cutter Head measures 16" (40.6 cm) from the outside of the mount head to the outside of the cutter head mounting tube, making adjustments as necessary.

NOTE: Distance may vary depending on planting pattern.



Measure 16" (40.6 cm) from the outside of the mount head to the outside of the cutter head mounting tube

3. Ensure each Cutter Head measures 30" (76.2 cm) from center of each cutter head motor.

NOTE: Distance may vary depending on planting pattern.

NOTE: Repeat process, measuring across each lift mount.





 Measure 30" (76.2 cm) from center of each cutter head motor



• Measure 30" (76.2 cm) from center of each cutter head motor, across each lift mount

4. Using a 3/4" socket, tighten each Cutter Head Bolt (two on each Cutter Head Mounting Tube).



Cutter Head Bolts (Located on each Cutter Head Mounting Tube) -Typical View

5. Install two Stalk Guides on each Cutter Head, positioned as shown.



• Install eight (8) Stalk Guide Bolts (4 each side) through bottom of each Cutter Head/Stalk Guide.

• Install eight (8) Stalk Guide Nuts (4 each side) onto the bolts and tighten with a 7/16" socket.



Stalk Guide Installation -Typical View

6. Apply anti-seize lubricant to inside of Cutter Blade Adapter Plug.



Anti-Seize Lubricant Application
-Typical View

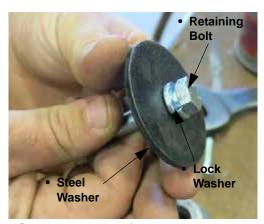
7. Install Cutter Blade Adapter Plug onto center of blade.



NOTE: Ensure adapter plug is installed on the "edged" side of blade, as shown.



- Install Cutter Blade Adapter Plug onto center of blade
- 8. Assemble Retaining Bolt, Lock Washer, and Steel Washer together, as shown.



Cutter Blade Bolt/Washer Assembly -Typical View

9. Insert Cutter Blade Bolt/Washer Assembly through bottom of blade/adapter plug.



Cutter Blade Assembly -Typical View

10. Install Cutter Blade Assembly through bottom side of Cutter Head (as shown) and tighten Retaining Bolt using a 9/16" socket.

NOTE: Inspect and tighten Retaining Bolts daily.



Cutter Blade Assembly (Mounted on the bottom side of Cutter Head) -Typical View

NOTE: Repeat Steps 6-10 for each Cutter Head.

11. Install Cutter Head Extension Flap on the rear side of the center four (4) Cutter Heads.



Cutter Head Extension Flap
-Typical View

12. Install hydraulic hoses.

NOTE: Refer to your Parts Manual for correct hardware, hose lengths, and hydraulic schematics.

Quad Puller Assembly

NOTE: Some Quad Pullers may come preassembled to the tool bar.





NOTICE

Ensure quad puller tires have equal pressure. Check tire pressure daily.

NOTE: Refer to your Parts Manual for specific hardware used.

1. Install two (2) Quad Pullers on each lift head tube, as shown.



Quad Puller -Typical View

2. Ensure each Quad Puller measures 16" (40.6 cm) from the outside of the mount head to the outside of the quad puller mounting tube, making adjustments as necessary.

NOTE: Distance may vary depending on planting pattern.



- Measure 16" (40.6 cm) from the outside of the mount head to the outside of the quad puller mounting tube
- 3. Using a 3/4" socket, tighten each Quad Puller Bolt (two on each Quad Puller Mounting Tube).



Quad Puller Bolts (Located on each Quad Puller Mounting Tube) -Typical View

- 4. Install two Stalk Guides onto each Quad Puller, positioned as shown.
- Install four (4) Stalk Guide Bolts (2 each side) through the front side of each Stalk Guide/Quad Puller.
- Install four (4) Stalk Guide Nuts (2 each side) onto the bolts and tighten with a 7/16" socket.



 Install four (4) Stalk Guide Bolts through the front side of each Stalk Guide/Quad Puller



Install four (4) Stalk Guide Nuts onto the bolts and tighten with a 7/16" wrench





Stalk Guide Installation -Typical View

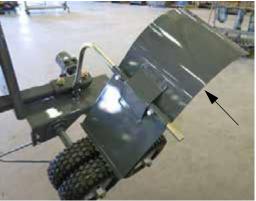
5. Install Deflector Shield Mounting Tube onto each Quad Puller (as shown) and tighten bolts with 7/16" wrench.



Deflector Shield Mounting Tube -Typical View

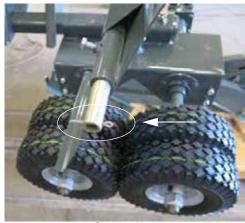
6. Install Deflector Shield onto Deflector Shield Mounting Tube and tighten bolts with 1/2" wrench.

NOTE: Always mount Deflector Shields to direct tassels away from machine.



Deflector Shield -Typical View

7. Install Cotter Pin on the end of each Deflector Shield Mounting Tube.



Cotter Pin
-Typical View

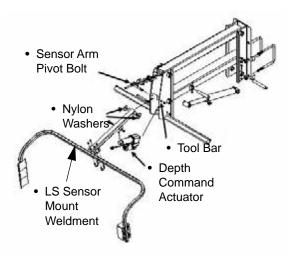
8. Install hydraulic hoses.

NOTE: Refer to your Parts Manual for correct hardware, hose lengths, and hydraulic schematics.

9. Adjust tire pressure to approximately 10 psi (.7 bar).



LS System/Depth Command Assembly



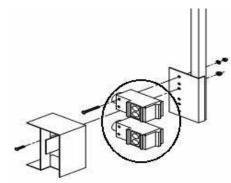
-Typical View

- 1. Install the LS Sensor Mount Weldment with the two Nylon Washers in the forward-most hole of the Tool Bar.
- 2. Install the LS Sensor Mount Weldment to the Sensor Mount (located on the support arm).
- 3. Install the Cable Assembly according to the wiring diagram provided in your Parts Manual.
- 4. Check sensor installation by turning the ignition key to the ON position. DO NOT start the engine.
- 5. Attach the Depth Command Actuator to the Light Sensor Mount and Tool Bar.

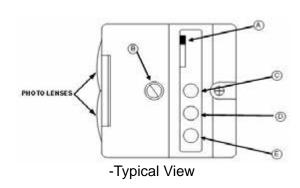
NOTICE

Over-tightening of the Sensor Arm Pivot Bolt may cause the actuator to stall.

LS Photo Light Sensors



LS Photo Lights (Upper/Lower)
-Typical View



- The upper and lower LS Photo Lights are equipped with LED lights (A, C, D, E) that indicate operation status.
- The LT/DK (Light/Dark) Switch (A) (located on the photo light sensor) changes the activated condition of the green LED from ON (LT) to OFF (DK).
- The Sensitivity Adjustment Screw (B) should always be set to MAXIMUM.
- The Yellow LED Light (C) indicates the power is ON.
- The Green LED Light (D) indicates output energized (sending a signal to the Tasseltrol Control Panel).
- The Red LED Light (E) indicates that the photo light is receiving reflected signal.

Detasseling Control Panel

The Detasseling Control Panel houses switches which activate Depth Command, Left/Right Fold, All-Up/Down, and Detasseling Head Motor functions.





Detasseling Control Panel
-Typical View

Tasseltrol/LS System 12 Control Panel

The Tasseltrol/LS System 12 Control Panel is used for programming the detasseling heads. The control panel can also be used to manually control the detasseling heads.

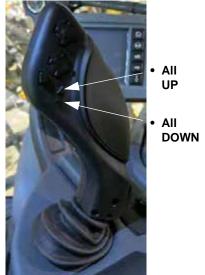


Tasseltrol/LS System 12 Control Panel -Typical View

All-Up/Down Switches

The All-Up/Down Switches (located on the Hydrostatic Drive Control Handle and the Detasseling Control Panel) are used to raise or lower all row units at the same time.

 Press desired switch in the UP or DOWN position to raise or lower all row units.



All-Up/Down Switches
(Located on the Hydrostatic
Drive Control Handle)
-Typical View



All-Up/Down Switch (Located on the Detasseling Control Panel) -Typical View

Refer to the Tasseltrol manufacturer's operation manual for information on programming parameters.

DETASSELING SYSTEM - OPERATION

Operating Instructions

 Program the Tasseltrol®/LS System 12™ Control Panel.



NOTE: Refer to the manufacturer's operation manual for programming instructions.



Tasseltrol Control Panel -Typical View

2. Test the Photo Light Sensors.

Auto Mode:

- · Cover top photo lens and lift should move UP.
- Do not cover any of the lenses and lift should move DOWN.
- Cover bottom photo lens and lift should stay in position.

Manual Mode (Machine Off):

- When red LED (see E on previous page) is uncovered, LED should be ON.
- When red LED is covered, LED should be OFF.



Photo Light Sensor -Typical View

- 3. Engage the parking brake.
- 4. Start the engine.
- 5. Press the Field/Road Button (located on the Machine Display Home Page) and place the machine in Field Mode.

NOTE: Selected drive state will illuminate.



Field/Road Button (Located on the Machine Display Home Page - Road and Field Mode)

6. Press the corresponding Motor Control Switches (located on the Detasseling Control Panel) in the UP position to turn desired detasseling head motors ON.



Motor Control Switches (Located on the Detasseling Control Panel) -Typical View

7. Press the Main Control Switch (located on the back side of the Hydrostatic Drive Control Handle) to the ON position.





Main Control Switch
(Located on the back side of the
Hydrostatic Drive Control Handle)
-Typical View

NOTE: If loss of hydraulic pressure occurs or the low oil warning indicator appears on the Machine Display, shut down the system immediately. Failure to comply may result in system damage and will void the warranty.

8. Press the Throttle Switch (located near the Hydrostatic Drive Control Handle) in the UP position to achieve the recommended RPM to operate the detasseling head motors.

NOTICE

Operating the Detasseling System below the recommended 2300 engine RPM will not provide the system with adequate hydraulic oil flow and may cause degraded or poor performance.



Throttle Switch
(Located near the Hydrostatic
Drive Control Handle)
-Typical View

NOTE: Detasseling heads will be available for immediate use by increasing engine RPM.

4-2 DETASSELER COMBO ATTACHMENT -ADJUSTABLE

-If Equipped



4-2 Detasseler Combo Attachment (Retracted View)



4-2 Detasseler Combo Attachment (Extended View)

Unfolding the Attachment

 Press and hold the corresponding Left/ Right Fold Switch (located on the Detasseling Control Panel) in the DOWN



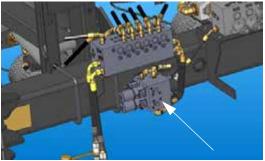
- (Unfold) position until outriggers fully extend.
- Continue to press and hold switch to extend the left and right Slide Extensions.



Left/Right Fold Switches
(Located on the Detasseling Control Panel)
-Typical View

NOTE: If the left or right Slide Extensions extend before the outriggers are unfolded, adjust Sequence Valves SE1 (left) and/or SE3 (right) (located on the Valve Block) by turning the corresponding Adjustment Screw(s) in the "clockwise" position to allow the outriggers to unfold first.

If the left or right Slide Extensions do not extend after the outriggers have been unfolded, adjust Sequence Valves SE1 (left) and/or SE3 (right) by turning the corresponding Adjustment Screw(s) in the "counterclockwise" position to allow the Slide Extensions to extend.

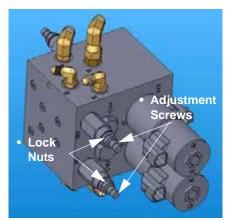


Valve Block
(Located on the front side of attachment)
-Typical View

To Adjust Sequence Valves:

NOTE: Sequence Valves are labeled on the Valve Block.

- Using a 9/16" wrench, loosen Lock Nut(s).
- Using a 5/32" hex wrench, turn Adjustment Screw(s) in the desired position.
- Re-tighten Lock Nut(s) to 7 ft.-lbs.



Lock Nuts/Adjustment Screws (Located on the Valve Block) -Typical View

Folding the Attachment

NOTICE

Ensure slide extensions are retracted before folding the outriggers in. Failure to comply will result in property damage.

NOTICE

Stagger detasseling heads before folding the outriggers. Failure to comply will result in property damage. Refer to "Transporting" in the *Miscellaneous Section* elsewhere in this manual for further information.

 Press and hold the corresponding Left/ Right Fold Switch (located on the Detas-

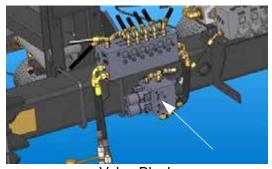


- seling Control Panel) in the UP (Fold) position until the Slide Extensions fully retract.
- 2. Continue to press switch until the outriggers fold in completely.



Left/Right Fold Switches
(Located on the Detasseling Control Panel)
-Typical View

NOTE: If the outriggers fold in before the Slide Extensions retract, adjust Sequence Valves SE2 (left) and/or SE4 (right) (located on the Valve Block) by turning the corresponding Adjustment Screw(s) in the "clockwise" position to allow the Slide Extensions to retract first. If the outriggers do not fold in after the Slide Extensions have been retracted, adjust Sequence Valves SE2 (left) and/or SE4 (right) by turning the corresponding Adjustment Screw(s) in the "counterclockwise" position to allow the outriggers to fold in.

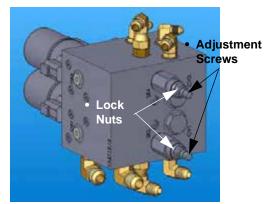


Valve Block (Located on the front side of attachment) -Typical View

To Adjust Sequence Valves:

NOTE: Sequence Valves are labeled on the Valve Block.

- Using a 9/16" wrench, loosen Lock Nut(s).
- Using a 5/32" hex wrench, turn Adjustment Screw(s) in the desired position.
- Re-tighten Lock Nut(s) to 7 ft.-lbs.



Lock Nuts/Adjustment Screws (Located on the Valve Block) -Typical View

TASSELTROL®/LS SYSTEM 12™

Setting Up

Enter Parameter Mode

 Press the Auto/Man Switch (located on the Tasseltrol Control Panel) and select AUTO.



Auto/Man Switch (Located on the Tasseltrol Control Panel)



- Press the On/Off Switch (located on the Tasseltrol Control Panel) in the ON position.
- On the LCD display will be four lines. The top line displays the program level. The second line will flash "Select Manual" (as a warning that you are about to enter the parameter adjusting mode.) Current parameter settings are displayed on the bottom line (the values for B, R, T, L, and D are typically set.) The machine type will vary from x, o, p, or c, depending on the valve system.

NOTE: The "L" value may vary, depending on the number of lifts equipped on the machine.

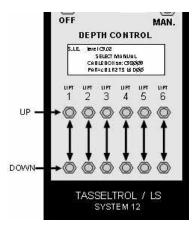


NOTICE

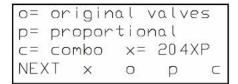
Machines with Tasseltrol software version 8.7 and greater have an enhancement that allows the operator to set the lift speeds for auto mode functions.

Match The Machine Valve Type

 Press the LIFT 1 UP Switch (under "PAR" on the LCD display) two times to display the machine type selected.



• The x, o, p, or c located to the right of "NEXT" (on the bottom line of the LCD display) indicate the type of machine. Press the LIFT 2 UP Switch that is located under this item. The display will now change to the "Select Machine Type" screen.



• Select the type of machine that the unit is installed on.

NOTE: For machines built prior to 2007 with the original valve system, press the LIFT 4 Switch under the "o". If the machine is equipped with proportional valves, press the LIFT 5 under the "p".

For machines built 2007 or newer with proportional valves, press the LIFT 6 Switch under the "c".

If the machine is a 2010 204XP, press the LIFT 3 Switch under the "x".

 The screen will now revert back to the "Select Manual" page with the machine type that you have just selected displayed on the bottom line.

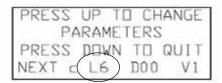


Match How Many Lifts Are On The Machine

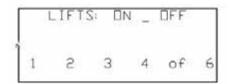
(System must be in parameter mode before proceeding)

 Press the LIFT 1 UP Switch (under "PAR" on the LCD display) two times to display how many lifts are on.

NOTE: "L6" on the display indicates that all six lifts are ON.



 To change the number of lifts to match your machine, press the LIFT 3 UP Switch under the "L". This will display the LIFTS: ON-OFF screen.

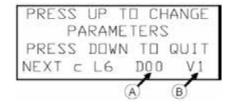


- Press the UP Switch under the lift that you want to turn on/off.
- After selecting which lifts are to be on/ off, press the LIFT 1 DOWN Switch two times to exit the screen and save the new parameter setting.

Establish "D" and "V"

(System must be in parameter mode before proceeding)

• Press the LIFT 1 UP Switch (under "PAR" on the LCD display) **two times** and the display will show the current setting of the *Dwell* (A) for "all up" and the *Valve Compensation* (B) as either 1=ON, or 0=OFF.



• The "D" value indicates how many seconds that the lifts will travel up after the All-Up/Down Switch (located on the Hydrostatic Drive Control Handle or the Detasseling Control Panel) is pressed momentarily. This time can be changed by pressing the LIFT 4 UP Switch.

NOTE: The time is factory preset to 0, but can be set to a value of 25 while adjusting the machine valves.

- Pressing the LIFT 4 UP Switch will add five seconds to the value each time until "D25", then will return to "D00". When the value is set to D00, the up motion stops as soon as the All-Up/Down Switch is released. If the value is set to anything greater than D00, the All-Up/Down Switch will only need to be pressed momentarily and the lifts will continue the up move until the parameter has been reached.
- The "V" value indicates whether or not the valve automatic compensation is performed. Press the LIFT 6 UP Switch to change this value.

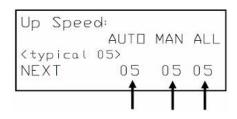
NOTE: This value is typically left at "V1".

Set The Lift Up Speeds

(System must be in parameter mode before proceeding)

- Press the LIFT 1 UP Switch (under "PAR" on the LCD display) **three times** and the display will show the current setting of the up speed for an auto, manual, and all-up move with a value from 01 to 10.
- With the value set to 01 in "MAN" or to 03 in "AUTO" and "ALL", the lifts will move slow enough to see if any are moving slower than the rest. These settings are useful for adjusting the offset of the values to get all the lifts to move at the same speed. Typically, these values are set to 05 for a fairly fast speed. The values can be changed by pressing the Up/Down Switches under AUTO, MAN, or ALL.





NOTE: These values can be saved by pressing the LIFT 1 DOWN Switch to exit screen and save the new parameter setting.

Set The Lift Up Offset

(System must be in parameter mode before proceeding)

• Press the LIFT 1 UP Switch (under "PAR" on the LCD display) **four times** and the display will show the current setting of the UP OFFSET for the first three lifts. Pressing NEXT again will show the offset setting for the last three lifts. The UP OFFSET for each valve can be set from -19 to +20, as needed to get the lift speed to match the speed of the other lifts.

NOTE: The more positive the number, the faster the lift will move. Typically, the offset is initially adjusted at a very slow speed by setting the LIFT UP SPEED to either 01 or 03.

- Exit the parameter mode and check the speed of each lift by moving it manually with the Up/Down Switches.
- Correct the fastest and slowest lifts to match the average speed by changing the offset value with the Up/Down Switches

- for that lift while in the LIFT UP OFF-SET parameter.
- When finished setting the offset values, return the speed setting back to approximately 05.

- With all the lifts at their lowest points, select AUTO.
- Press the All-Up/Down Switch (located on the Hydrostatic Drive Control Handle or the Detasseling Control Panel) so the lifts all move up at the same time. Correct the values for any lifts that are not close to the speed of the others.
- The values can be saved by pressing the LIFT 1 DOWN Switch to exit the screen and save the new parameter setting.

NOTICE

To get all the lift speeds even, you may need to lower the speed below 05. This will ensure that the flow is being controlled by the value rather than restricted by the .042" (.1 cm) orifice. After adjusting the offset parameters for even up speeds, the up speed value can be increased back to 05.

Set The Lift Down Speeds

(System must be in parameter mode before proceeding)

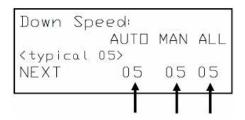
- Press the LIFT 1 UP Switch (under "PAR" on the LCD display) **six times** and the display will show the current setting of the down speed for an auto, manual, and all-resume move with a value of 01 to 10.
- With the value set to 03, the lifts will move a little slower. This setting of 03 is useful for adjusting the offset of the values for getting all the lifts the same



speed.

Typically, these values are set to 05 for a fairly fast speed. The values can be changed by pressing the Up/Down Switches under the AUTO, MAN, or ALL.

• The values can be saved by pressing the LIFT 1 DOWN Switch to exit the screen and save the new parameter setting.

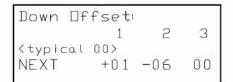


Set The Lift Down Offset

(System must be in parameter mode before proceeding)

- Press the LIFT 1 UP Switch (under "PAR" on the LCD display) seven times to display the current setting of the down offset for the first three lifts.
- The down offset can be adjusted for a value from -19 to +20.

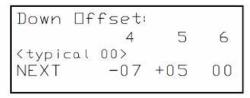
NOTE: The more positive the number, the faster the lift will move. Typically, the offset is initially adjusted at a slower speed by setting the LIFT DOWN SPEED to 03.



These values are for demonstration only, actual values are determined by the operator.

 Exit parameter mode and check the speed of each lift by moving it manually with the Up/Down Switches.

- Correct the fastest and slowest lifts to match the average speed by changing the offset value with the Up/Down Switches for that lift while in the DOWN OFFSET parameter.
- When finished setting the offset values, return the speed setting back to approximately 05.
- With all lifts at their highest points, select AUTO so all lifts move down together. Correct the values for any lifts that are not close to the speed of the others.
- The values can be saved by pressing the LIFT 1 DOWN Switch to exit the screen and save the parameter setting.



Once you have set the operating parameters, you can adjust the Response Parameters. These parameters are used to adjust the response of the controller and seldom need changing. The parameter values are stored in flash memory and will be retained even when no battery power is present.

NOTICE

Once parameters have been set, very little adjustment will be required.

Your programmable control panel is factory preset with the following parameter defaults:

- Bottom Parameter (B1)
- Response Parameter (R2)
- Top Parameter (T3)

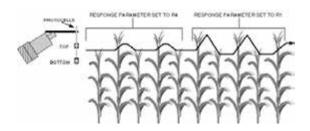


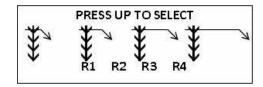
These parameters will always be displayed until the control panel is reprogrammed. Once reprogrammed, the new values for the parameters will be displayed on the control panel.



To program the unit, first select the Response Parameter. If further adjustment is required for top and/or bottom parameters, continue with their adjustments.

Tasseltrol Response Parameter





The Response Parameter is used to adjust the response time of both photocells:

 How quickly the down motion starts when no corn is detected by either top or bottom cells, and how quickly the up motion is stopped when corn is no longer detected by the top cell. This can be changed by selecting R1, R2, R3, or R4. NOTE: More corrections will occur with R1 selected and fewer with R4 selected.

The normal or default value for this parameter is R2, but can be set to any desired value.

Use the Response Parameter to adjust overall correction activity and to compensate for ground speed. If the pullers are moving too quickly and frequently, the Response Parameter can be increased toward R4. If the pullers are too slow to respond to changes in the corn depth, decrease the parameters toward R1. Generally, this parameter can be left at R2.

To display the Response Parameter:

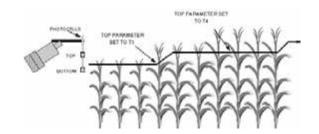
- Select AUTO and turn the control panel ON. Wait three seconds for the SELECT MANUAL message to appear.
- Press the UP Switch under "PAR".
- Press the UP Switch under the "R" value.

The active value of the parameter is indicated by it blinking on and off while the other three options are displayed continuously.

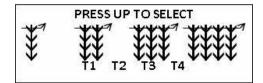
To select a new value for the parameter:

- Press the UP Switch under the desired selection.
- After selecting one of the four options, press the LIFT 1 DOWN Switch to escape this parameter.
- To save new values and escape the parameter mode, press the LIFT 1 DOWN Switch a second time.

Tasseltrol Top Parameter







The Top Parameter is used to adjust the sensitivity time of the top photocell. The top photocell starts the up motion when it's light path is blocked by corn. How much corn it has to see before starting the up move can be changed by selecting one of the four values: T1, T2, T3, or T4.

NOTE: With T1 selected, less corn is required to start an up move. The normal or default value for this parameter is T3, but can be set to any desired value.

If the pullers move up too easily when a taller stalk of corn passes, increase the parameter toward T4. If the pullers stay deep too long when taller corn passes, decrease the parameter toward T1. Generally, this parameter can be left at T3.

To display the Top Parameter:

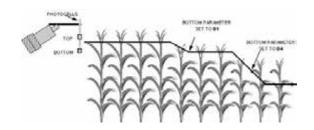
- Select AUTO and turn the control panel ON. Wait three seconds for the SELECT MANUAL message to appear.
- Press the UP Switch under "PAR".
- Press the UP Switch under the "T" value.

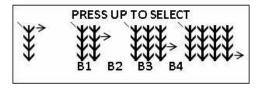
The active value of the parameter is indicated by it blinking on and off while the other three options are displayed continuously.

To select a new value for the parameter:

- Press the UP Switch under the desired selection.
- After selecting one of the four options, press the LIFT 1 DOWN Switch to escape this parameter.
- To save new values and escape the parameter mode, press the LIFT 1 DOWN Switch a second time.

Tasseltrol Bottom Parameter





The Bottom Parameter is used to adjust the sensitivity time of the bottom photocell. The bottom photocell stops the down motion when it's light path is blocked by corn. Selecting one of the four values (B1, B2, B3, or B4) will set how much corn the photocell has to see before it stops moving down.

NOTE: With B1 selected, the down move will stop as soon as corn is detected. The normal or default value for this parameter is B1, but can be set to any desired value.

If the pullers run too shallow after moving down into shorter corn, increase the parameter toward B4. If the pullers move too deep when going into shorter corn or oscillates between the top and bottom photocells, decrease the parameter toward B1. Generally, this parameter can be left at B1.

To display the Bottom Parameter:

- Select AUTO and turn the control panel ON. Wait three seconds for the "Select Manual" message to appear.
- Press the UP Switch under "PAR".
- Press the UP Switch under the "B" value.

The active value of the parameter is indicated by it blinking on and off while the other three options are displayed continuously.

To select a new value for the parameter:



- Press the UP Switch under the desired selection.
- After selecting one of the four options, press the LIFT 1 DOWN Switch to escape this parameter.
- To save new values and escape the parameter mode, press the LIFT 1 DOWN Switch a second time.

To use the control panel with it's normal parameter setting:

- 1. Engage the parking brake.
- 2. Turn the ignition to the ON position.
- 3. Turn the Tasseltrol Control Panel ON.
- 4. Press the Auto/Man Switch (located on the Tasseltrol Control Panel) to the MANUAL position.

NOTE: At this time, the display will read "MANUAL" in addition to other information identifying the control panel.

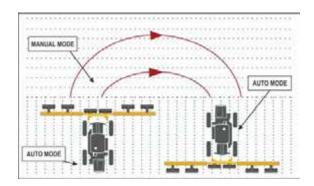
- 5. Press the individual row switches for up and down movement. An arrow on the display will indicate direction of each lift assembly.
- NOTE: "P" indicates pressure, UP is only available on "o-type" machines, and UP/DOWN are available on "p, c, and x-type" machines.
- 6. If the Auto/Man Switch is left in the AUTO position when the unit is first started, the display will tell you to "SELECT MANUAL". After you have selected MANUAL, switch back to the AUTO position.
- 7. To override the system, press the desired UP Switch to raise the attachment. When the switch is released, the system will go back into AUTO mode.
- 8. If the ignition is left on and the Auto/ Man Switch is left in AUTO position, the down coils on the electro-hydraulic valve will lose power after approximately 45 seconds.

To reactivate, press the Auto/Man

- Switch from AUTO to MANUAL, then back to AUTO.
- The control panel is set up with a feature that if a unit loses contact during operation in AUTO mode, the unit will automatically rise.
 If this should occur, switch to MANUAL mode and determine the cause for the

Short Corn Operation

malfunction.



When operating the LS System, always select MANUAL when first entering the field. Once you have determined your operating speed and the cutting and/or pulling depth, select AUTO. When you come to an area where the corn is very short, such as a low spot in the field, you may want to switch to the MANUAL position until you reach taller corn.

Always switch to the MANUAL position before you reach the end rows (see previous figure). This will allow the cutter or puller heads to maintain their cutting or pulling height when re-entering the field. Then you may switch back to AUTO.

NOTE: You may choose to use the ALL-UP/ DOWN function instead of switching to manual. This function will raise all of the detasseling heads in one motion.

Operating

 Press the All-Up/Down Switch (located on the Hydrostatic Drive Control Handle or the Detasseling Control Panel) in the



UP or DOWN position to raise or lower all row units.



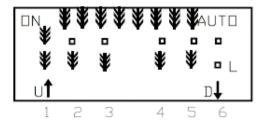
All-Up/Down Switch
(Located on the Hydrostatic Drive Control
Handle or the Detasseling Control Panel)
-Typical View

All row units will move up when the desired switch is pressed in the UP position and will lower when the switch is pressed in the DOWN position.

The parameters for Dwell on the up move can be set to 0, 5, 10, 15, 20, or 25 seconds. The heads will move up this amount of time without having to hold the All-Up/Down Switch in the up position (only in values greater then 0.) All heads will hold this position when the parameter is reached. To resume automatic depth control, press the All-Up/Down Switch in the DOWN position.

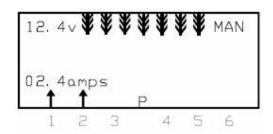
Additional Features

To temporarily lock a lift up, press and hold the UP Switch for the corresponding lift while switching from MANUAL to AUTO mode. The display will show "L" for that lift to indicate that it is locked and will not move down automatically.



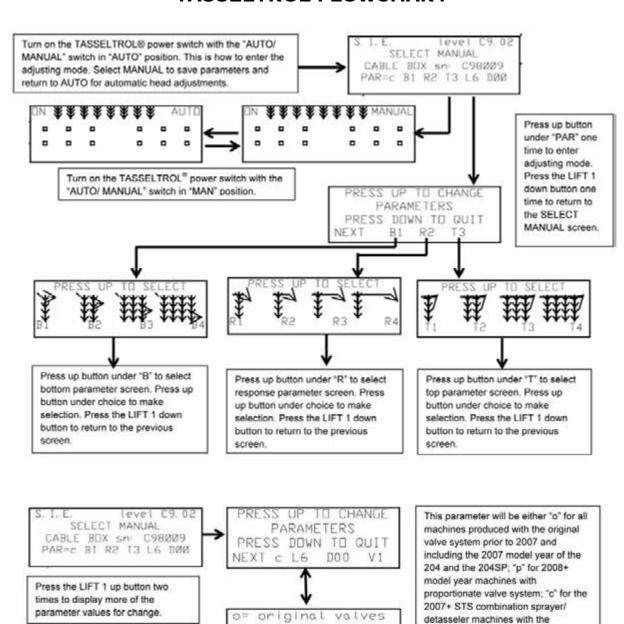
NOTE: The lift will return back to normal operation when MANUAL mode is again selected.

To display the current supply voltage for the controller, press the All-Up/Down Switch while in MANUAL mode.





TASSELTROL FLOWCHART



p= proportional

× O

NEXT

c= combo x= 204XP

SELECT MANUAL

CABLE BOX sn: C98009 PAR=c B1 R2 T3 LG D00

P

level C9.02

proportionate valve system; or "x" for

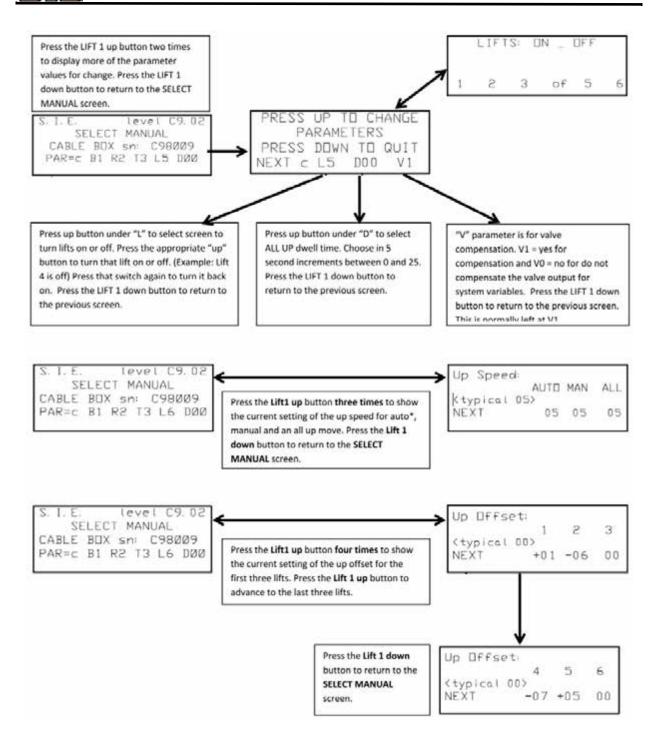
combination sprayer/ detasseler with 12 lift valves. This screen will automatically take you back to the

SELECT MANUAL screen when you

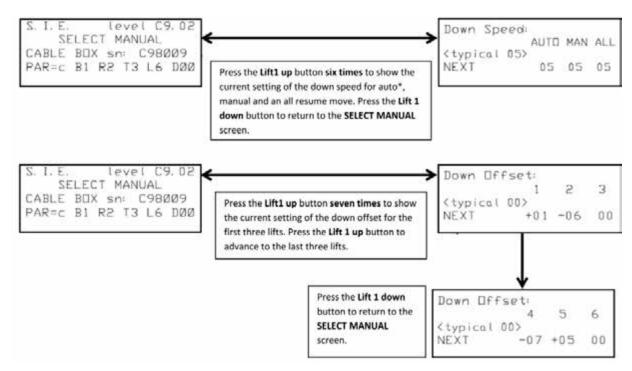
the 2010 model year 204XP detasseling machine and the DTS8C

enter your machine type.

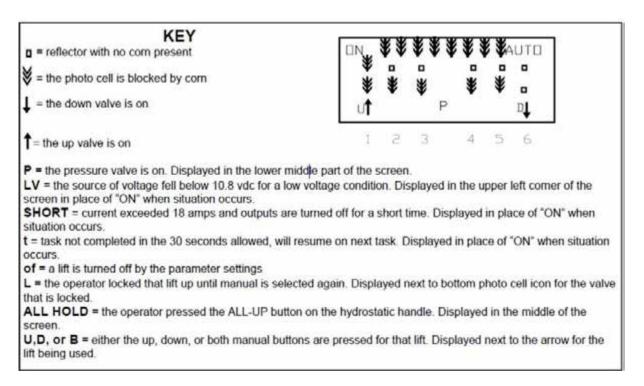








NOTE: With the exception of the machine type screen (which automatically reverts upon changing), you may advance through all the parameter settings while making changes without returning to the SELECT MANUAL screen each time by pressing the LIFT 1 UP Switch instead of the Down Switch. LIFT 1 DOWN saves the changes upon exiting the parameter screen.





SECTION 4 - MAINTENANCE AND STORAGE

SERVICE - LUBRICATION

NOTICE

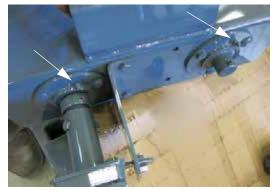
Failure to properly lubricate pivot and friction points may result in unnecessary wear and damage.

Quad Puller Heads

Lubricate each Quad Puller Head grease zerk
 (4) twice per day (morning and noon suggested).



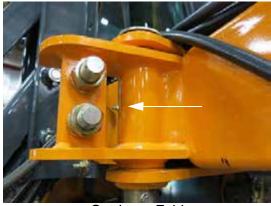
Quad Puller Head -Typical View



Quad Puller Head -Typical View

Outrigger Fold (Left and Right)

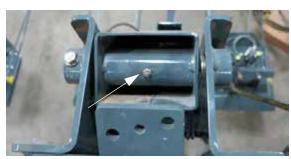
• Lubricate each left and right Outrigger Fold grease zerk (2) a minimum of every 50 hours of operation, or as needed.



Outrigger Fold -Typical View

Lift Arm Assemblies

Lubricate each Lift Arm Assembly grease zerk (6) a minimum of every 50 hours of operation, or as needed.

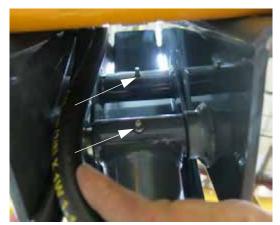


Lift Arm Assembly - Top -Typical View





Lift Arm Assembly - Mid -Typical View



Lift Arm Assembly - Inner Arm -Typical View

NOTE: An additional grease zerk is located inside of the lower lift arm frame.

STORAGE

Preparing For Storage

1. Perform daily and weekly lubrication and maintenance inspections, as required.

- 2. With the engine at normal operating temperature, cycle all the hydraulic functions.
- 3. Thoroughly wash the attachment and touch up any chipped or damaged paint.
- 4. Replace any damaged or missing decals.

NOTE: Contact Hagie Customer Support for paint touch-up recommendations and decal replacement.

- 5. Apply multi-purpose grease to hydraulic cylinder rods.
- 6. If the attachment will be stored separately, ensure that all electrical and hydraulic ends are capped or covered with a suitable covering.

Removal From Storage

NOTICE

Protective compounds such as grease can harden under exposure to weather conditions. Be sure to remove any dried grease and reapply new, if necessary.

- 1. Remove any dried grease from the cylinder rods and re-apply, if necessary.
- 2. Thoroughly clean the attachment.
- 3. Carefully unseal any openings that were sealed for storage.
- 4. Attach DTB to the sprayer and manually cycle the hydraulics two or three times to adequately lubricate components.



TRANSPORTING

Transporting Your Machine with an Attachment

A CAUTION

Ensure there is adequate clearance when transporting the sprayer near an object with clearance less than the transporting height and width of the overall machine and attachment.

A CAUTION

Hagie Manufacturing Company does not recommend any form of transportation other than driving the sprayer. Loading the sprayer onto a trailer may result in sprayer rollover.

WARNING

When transporting the sprayer, observe the following to avoid serious injury or death:

- Check for adequate clearance before driving under any overhead obstructions.
- Contact with power lines may result in serious injury or death.

Folding the Outriggers

NOTE: If your combo attachment is equipped with the 4-2 feature, refer to "4-2 Detasseler Combo Attachment - Adjustable" provided elsewhere in this manual for information on folding and sequence valve adjustments.

NOTICE

Stagger detasseling heads before folding the outriggers. Failure to comply will result in property damage.

Before folding the outriggers, the detasseling heads must be staggered in height. Damage will occur if detasseling heads are all the same height when the outriggers are folded.

To Stagger the Detasseling Heads

 Using the corresponding Lift Up/Down Switches (located on the Tasseltrol® Control Panel), stagger the detasseling heads.



Lift Up/Down Switches
(Located on the Tasseltrol Control Panel)
-Typical View

- Lower the two center detasseling heads all the way DOWN.
- 2. Raise all the detasseling heads on one side to approximately half of the fully raised height.
- 3. Raise the detasseling heads on the opposite side to the fully raised height.





Staggered Detasseling Heads
-Typical View

To Fold the Outriggers

 Slowly fold the outriggers in by pressing and holding the corresponding Left/ Right Fold Switches (located on the Detasseling Control Panel) in the UP (Fold) position, making adjustments (as necessary) to the height of the detasseling heads.



Left/Right Fold Switches
(Located on the Detasseling Control Panel)
-Typical View

NOTICE

Do not attempt to make any adjustments to the detasseling heads after the outriggers are folded. Failure to comply may cause the stalk guides or depth command sensor bars to entangle, resulting in equipment damage.

WARNING

Keep all persons away from trailer when loading or unloading the sprayer. Failure to comply may result in serious injury or death.

NOTICE

Read and understand the trailer manufacturer's operation manual. Hitch the trailer to the pulling vehicle according to their recommendations.

NOTICE

The loaded height and width of the trailer must conform to state law in which it is being used. Do not exceed the trailer manufacturer's recommendations on loaded weight.

- 1. Pull the trailer to flat ground.
- 2. Apply the pulling vehicle's parking brake and turn the engine OFF.
- 3. Use tire chocks to keep the trailer from moving.
- 4. Fold the booms and lower into cradles.
- 5. Lower the trailer ramps and set the ramp spacing for the machine's tread width setting.
- 6. Have an attendant help guide you onto the trailer.
- 7. Allow enough room between the sprayer and the pulling vehicle for turning.
- 8. Secure the sprayer onto the trailer using the recommended securement restraints (see trailer manufacturer's operation manual).

Loading



9. Cover or remove the SMV (Slow Moving Vehicle) emblem when traveling over 25 mph (40 km/h).

Unloading

- 1. Pull the trailer to flat ground.
- 2. Apply the pulling vehicle's parking brake and turn the engine OFF.
- 3. Use tire chocks to keep the trailer from moving.
- 4. Lower the trailer ramps and set the ramp spacing for the machine's tread width setting.
- 5. Carefully release the securement restraints.
- 6. Have an attendant help guide you off of the trailer.
- 7. Uncover or replace the SMV (Slow Moving Vehicle) emblem.

Towing

NOTICE

Sprayer should never be towed under any circumstances. Machine damage will occur and will void the power train warranty.



Contact Hagie Customer Support if towing is unavoidable.

QUICK-TACH SYSTEM - DETASSELER COMBO

▲ WARNING

When connecting or disconnecting the attachment, observe the following safety precautions:

- Monitor both sides of the attachment during fold procedure.
- Select a safe area before unfolding/folding the attachment.
- Clear area of personnel.
- · Check for overhead obstructions.
- Do not unfold or fold combo attachment near power lines. Contact with power lines can result in serious injury or death.

WARNING

Turn the engine OFF before connecting/ disconnecting any hoses or electrical lines. Failure to comply may result in serious injury or death.

Connecting the Detasseler Combo Attachment

- 1. Square up to the combo attachment.
- 2. Lower the machine by pressing the Suspension Button (located on the Machine Display Auxiliary Controls Page) to the ON (Deflate) position.

NOTE: When the Suspension Button is pressed, a warning message will appear, alerting you that activating the Air Bags will change suspension height. Press OK to acknowledge. After you have acknowledged the suspension height warning, the Air Bags will deflate and the Suspension Button will illuminate.





Suspension Button (Located on the Machine Display Auxiliary Controls Page)

3. Disengage the Quick-Tach Lock Assemblies by pulling the Lock Pins (located on the front left and right-hand side of machine) OUT as far as it will go until it is in the "lock-out" position.

NOTE: "Lock-out" position prevents relocking while attaching or detaching the attachment.



Lock Pin
(Located on the front left and right-hand side of machine)
-Typical View
* Disengaged position shown

- 4. Slowly pull into the combo attachment.
- 5. Ensure the Attachment Hooks are high enough to clear the Mounting Pins.



Attachment Clearing Mounting Pin
-Typical View

6. Raise the machine and engage Attachment Hooks by pressing the Suspension Button to the OFF (Inflate) position.

NOTE: Raising the combo attachment will allow the weight of the attachment to pull the Attachment Hooks over the Mounting Pins. You will notice a change of weight as the machine begins to support the attachment.

7. Engage the Quick-Tach Lock Assemblies by pushing the Lock Pins IN, ensuring full engagement.







Lock Pin
-Typical View
* Engaged position shown

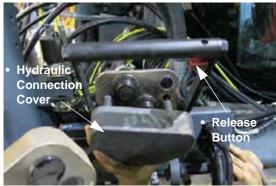
- 8. Engage the parking brake.
- 9. Turn the engine OFF before connecting any hoses or electrical lines!
- 10. Install the Hydraulic/Electric Connection (located on the left-hand side of combo attachment) into the Multi-Coupler Receptacle (located on left-hand side of machine), ensuring full engagement.



Hydraulic/Electric Multi-Coupler Assembly (Left-hand side of machine shown)
-Typical View

11. Push the Quick Connect Handle UP to engage left-hand hydraulic/electrical connections.

- 12. Press and hold the red Release Button (located on the right-hand quick connect handle) and lower handle into DOWN position.
- 13. Remove the Hydraulic Connection Cover (located on right-hand side of machine) and set aside.



Hydraulic Connection Cover and Release Button (Right-hand side of machine shown) -Typical View

14. Install the Hydraulic Connection (located on the right-hand side of combo attachment) into the Multi-Coupler Receptacle (located on right-hand side of machine), ensuring full engagement.



Hydraulic Multi-Coupler Assembly (Right-hand side of machine shown)
-Typical View

15. Press and hold the red Release Button and push Quick Connect Handle UP to engage right-hand hydraulic connections.



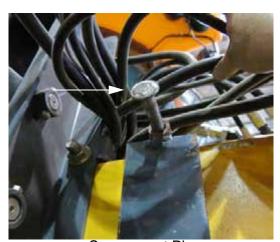
16. Install the Electrical Connections (located on the right-hand side of combo attachment) into the Electrical Ports (located on the right-hand side of machine).

NOTE: Turn Electrical Connections "clockwise" to engage.



Electrical Connections
(Right-hand side of machine shown)
-Typical View

17. Remove the Securement Pins (located on the inward side of each combo attachment stand) and set aside.



Securement Pin
(Located on the inward side of each combo attachment stand)
-Typical View

18. Remove the Stop Plate (located on the inward side of each combo attachment stand) and set aside.



Stop Plate (Located on the inward side of each combo attachment stand) -Typical View

19. Remove the combo attachment stands and set aside.

Disconnecting the Detasseler Combo Attachment

NOTICE

Stagger detasseling heads before folding the outriggers. Failure to comply will result in property damage.

WARNING

Ensure combo attachment is in the fully FOLDED position before detaching from machine. Failure to comply may result in serious injury or death and will result in property damage.

Before disconnecting the combo attachment, determine a proper storage location. When choosing a place to store the attachment, there are three important things to keep in mind:



Is the ground level?

The ground must be level to help prevent the attachment from falling over. Level ground will also minimize stress on the frame of the attachment when in storage.

Is there enough space?

Be aware of the room that is needed for the attachment and adequate space to travel around it safely.

Is it accessible?

The attachment needs to be positioned so you can connect easily. Ensure there is enough room and that the attachment is not blocked, or blocking other items.

If temporarily storing attachment on a soft surface (such as grass), it is recommended to place blocks or wood beneath each of the combo attachment stands to prevent the attachment from sinking into the ground.

NOTE: It is NOT recommended to store the attachment on a soft surface for an extended period of time, due to the risk of settling soil, even when blocks or wood are used.

- Using the corresponding Lift Up/Down Switches (located on the Tasseltrol® Control Panel), stagger the detasseling heads.
- Lower the two center detasseling heads all the way DOWN.
- Raise all the detasseling heads on one side to approximately half of the fully raised height.
- Raise the detasseling heads on the opposite side to the fully raised height.



Lift Up/Down Switches
(Located on the Tasseltrol Control Panel)
-Typical View



Staggered Detasseling Heads -Typical View

NOTE: If your DTB is equipped with the 4-2 feature, refer to "4-2 Detasseler Combo Attachment - Adjustable" provided elsewhere in this manual for information on folding and sequence valve adjustments.

2. Slowly fold the outriggers in by pressing and holding the corresponding Left/Right Fold Switches (located on the Detasseling Control Panel) in the UP (Fold) position, making adjustments (as necessary) to the height of the detasseling heads.





Left/Right Fold Switches (Located on the Detasseling Control Panel) -Typical View

NOTICE

Do not attempt to make any adjustments to the detasseling heads after the outriggers are folded. Failure to comply may cause the stalk guides or depth command sensor bars to entangle, resulting in equipment damage.

- 3. Engage the parking brake.
- 4. Turn the engine OFF before disconnecting any hoses or electrical lines!
- 5. Install the combo attachment stands beneath attachment.
- Install Stop Plate and Securement Pin on the inward side of each combo attachment stand.



Stop Plate/Securement Pin Assembly
-Typical View

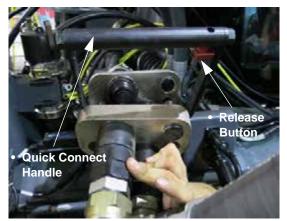
- Pull the Quick Connect Handle (located on the left-hand side of machine) DOWN to disengage hydraulic/electrical connections.
- 8. Remove Hydraulic/Electric Connection from the Multi-Coupler Receptacle.



Hydraulic/Electric Multi-Coupler Assembly (Left-hand side of machine shown)
-Typical View

9. Press and hold the red Release Button (located on the right-hand quick connect handle) and pull handle DOWN to disengage hydraulic connections.





Hydraulic Multi-Coupler Assembly (Right-hand side of machine shown)
-Typical View

- 10. Remove Hydraulic Connection from the Multi-Coupler Receptacle.
- 11. Reinstall Hydraulic Connection Cover (located on right-hand side of machine).



Hydraulic Connection Cover (Right-hand side of machine shown)
-Typical View

12. Remove the Electrical Connections from the Electrical Ports (located on the right-hand side of machine).

NOTE: Turn Electrical Connections "counter-clockwise" to disengage.



Electrical Connections (Right-hand side of machine shown) -Typical View

13. Disengage the Quick-Tach Lock Assemblies by pulling the Lock Pin (located on the front left and right-hand side of machine) OUT as far as it will go until it is in the "lock-out" position.

NOTE: "Lock-out" position prevents relocking while attaching or detaching the attachment.



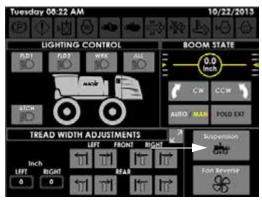
Lock Pin
(Located on the front left and right-hand side of machine)
-Typical View
* Disengaged position shown

14. Start the engine.



15. Lower the machine by pressing the Suspension Button (located on the Machine Display Auxiliary Controls Page) to the ON (Deflate) position.

NOTE: When the Suspension Button is pressed, a warning message will appear, alerting you that activating the Air Bags will change suspension height. Press OK to acknowledge. After you have acknowledged the suspension height warning, the Air Bags will deflate and the Suspension Button will illuminate.



Suspension Button (Located on the Machine Display Auxiliary Controls Page)

- 16. Disengage the parking brake and slowly back away from the combo attachment.
- 17. If no other attachment is going to be installed, re-lock the Quick-Tach Lock Assemblies by pushing the Lock Pins IN.
- NOTE: Install provided covers on disconnection points to avoid damage and contamination. Contact Hagie Customer Support for replacement covers.
- 18. Raise the machine by pressing the Suspension Button (located on the Machine Display Auxiliary Controls Page) to the OFF (Inflate) position.



TROUBLESHOOTING

Problem	Possible Cause	Suggested Remedy	
Lifting mechanism will not lift	Bad cylinder Blown relief valve Relief valve set too low Lift arms seized Faulty electro-hydraulic valve	Check cylinder - remove, rebuild, or replace Remove, inspect, replace Contact Hagie Customer Support for assistance Loosen mounting bolts, lubricate grease fittings (if equipped) Refer to the Tasseltrol® user guide	
Cutter head blades, quad pullers, rollers, or ties will not turn	Oil level in reservoir too low Oil not reaching pump Faulty hydraulic pump Faulty hydraulic motor(s)	Fill reservoir to proper level with approved oil Remove suction hose from pump and check for proper flow, reinstall hose and all suction fittings Replace hydraulic pump Replace motor(s)	
Hydraulic motor leaking	Seal failure Restricted case drain hose	Replace seal, turn heads on with low engine RPM Inspect or replace hose	
No units will lift	Oil in reservoir low Faulty valve Relief valve in electro-hydraulic valve set too low	Fill tank to proper level Repair or replace valve Contact Hagie Customer Support for assistance	
No units will lower	All lift arm pivots too tight	Lubricate and loosen pivot points	
Only one unit will not lower	Faulty valve Lift arm pivot too tight	Replace valve Lubricate and loosen pivot point	
All units lift slowly	Hydraulic oil not at operating temperature Faulty valve Lift arm pivots too tight Relief valve in electrohydraulic valve system set too low	 Allow time for oil to warm up Replace valve Lubricate and loosen pivot points Contact Hagie Customer Support for assistance 	
Only one unit lifts slowly	Faulty valve Lift arm pivot points too tight	Replace valve Lubricate/loosen pivot point	
Only one unit will not hold position	 Oil leak between valve and cylinder Faulty valve Faulty lower poppet on lift valve 	 Repair leak or replace hose Replace valve Remove, clean, and replace 	

SECTION 5 - MISCELLANEOUS



No units will hold position	Non-hydraulic issue	Refer to the Tasseltrol information elsewhere in this manual
Only one unit lowers slowly	Faulty valve Faulty lower poppet on lift valve	Replace valve Remove, clean, replace
All units lower slowly	Hydraulic oil not at operating temperature	Allow time for oil to warm up
In MANUAL mode, more than one unit lifts or lowers using one up/down switch	Faulty valve	Replace valve



In AUTO mode, more than one unit raises from photo sensor	Faulty valve	Replace valve
In AUTO mode, wrong unit raises from photo sensor	Cylinder hoses are connected to the wrong cylinder Electronic malfunction	Attach correct hoses to proper cylinder Contact Hagie Customer Support for assistance
No units will lift	 Faulty Auto/Manual Switch Blown Fuse Faulty #1 valve, coil, or loose coil mounting nut Loose wire connections Faulty wire connections Faulty main wire assembly 	 Replace switch Find short in wire, repair, and replace fuse Tighten or replace coil Find loose connection, tighten Replace or repair Replace or repair
Only one unit will not lift	In MANUAL mode, faulty Up/Down Switch Light photo sensor assembly Faulty valve, coil, or loose coil mounting nut Loose wire connections Photo sensor lights not lined up with reflector Faulty row wire assembly Faulty sensor connector wire	 Replace control box Replace photo sensor Tighten nut or replace coil Find loose connections, tighten Line up sensor with reflector Replace or repair Replace or repair
No units will lower	Faulty Auto/Manual Switch Blown fuse In AUTO mode, LS valve assembly unplugged Loose wire connections	 Replace switch Find short in wire, repair, and replace fuse Plug in wire assembly Find loose connection, tighten
Only one unit will not lower	 Faulty Up/Down Switch Light photo sensor inoperable Faulty valve, coil, or loose coil mounting nut Loose wire connections Lights of photo sensor not lined up with reflector Faulty row wire assembly Faulty sensor connector wire assembly 	 Replace control box Replace photo sensor Tighten nut or replace coil Find loose connections, tighten Line up sensor with reflector Replace or repair Replace or repair
No units will hold position	In AUTO mode, no crop moving under assemblies	Drive forward or select MANUAL mode
In AUTO mode, wrong unit raises from sensor assembly	Row LS wire assembly plugged into wrong sensor connector	Plug correct wire assembly into proper row sensor connector assembly



Machine Valve Type

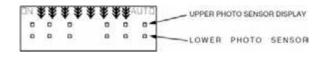
- **o** = Any machine with original valve (Model Year 2007 or prior).
- **p** = 204/204SP machines with proportionate valve (Model Year 2008 and later).
- **c** = STS Combination Sprayer/Detasseler with proportionate valve (Model Year 2007 or later).
- **x** = 204XP and DTS 8C (Combination Sprayer/Detasseler) with 12 valves (Model Year 2010).

Tasseltrol/LS System

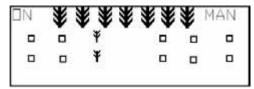
- Turn the ignition key to the ON position (do not start the engine).
- Turn the Tasseltrol Control Panel to the ON position.
- Turn the Auto/Manual Switch to MAN-UAL.
- Ensure there is nothing physically blocking any upper or lower sensor's path to it's reflector.

The display will show the status of the upper and lower photo sensor on each lift assembly. If the display shows a box ("□") in all upper and lower areas, the unit is ready for operation. If the display shows a corn stalk ("▼") in one or more areas, refer to the following information for troubleshooting.

NOTE: Left-center sensors used as examples.



Tasseltrol Display



Manual Mode

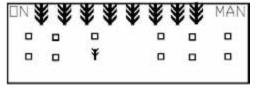


Auto Mode

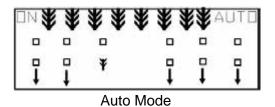
Unit rises automatically

Photo Sensor Light Status	Possible Cause
Lights at both photo sensors	Photo sensors not in line with reflector. Contact Hagie Customer Support for assistance.
No lights at either photo sensor	 Faulty connector cable (refer to your Parts Manual) Faulty wire in connector cable (refer to your Parts Manual)

Tasseltrol Display



Manual Mode

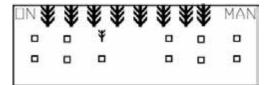


Unit does NOT rise automatically

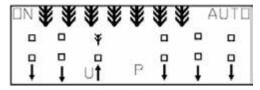


Photo Sensor Light Status	Possible Cause
Lights at lower photo sensor	 Faulty wire in connector cable (refer to your Parts Manual) Photo sensor not in line with reflector. Contact Hagie Customer Support for assistance. Faulty wire in sensor assembly (refer to your Parts Manual)
No lights at lower photo sensor	 Faulty wire in connector cable (refer to your Parts Manual)

Tasseltrol Display



Manual Mode



Auto Mode

Photo Sensor Light Status	Possible Cause
Lights at upper photo sensor	Faulty wire in sensor assembly (refer to your Parts Manual)
No lights at upper photo sensor	Faulty wire in connector cable (refer to your Parts Manual)



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