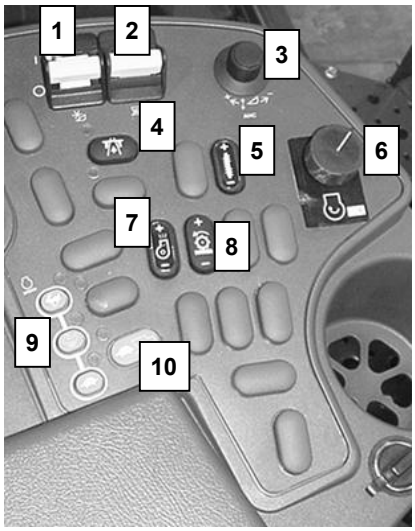
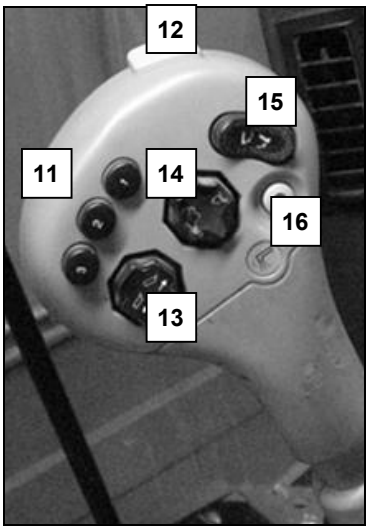
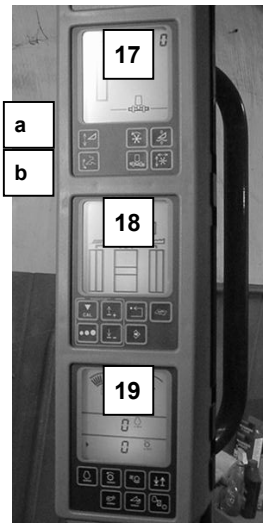
# Operator Controls




**1 Separator Engage:** Turns on separator. Push up to turn on; down to turn off. Engage only at low idle speed.

**2 Header Engage/Reverse:** Controls header auger and pickup. Push up for auger to move forward and pickup to rotate; push down for auger to go in reverse (pickup does not move; for cleanout). Operator must be seated for switch to work.

**3 Automatic Header Height Control:** Controls the set point for Header Height Resume and Header Height Sensing. Turn dial to change set point.

**4 Road Transport Disconnect Switch:** Used when combine is transported on roads. Press switch; indicator lights up. Disengages various functions. Press again to turn off indicator and use functions (header height resume/sensing, unloading conveyor; header raise/lower; separator engage; header engage).

**5 Header Speed:** Controls how fast header auger and pickup are operating. Press top to speed up; press bottom to slow down.

**6 10% Speed Reduction:** Reduces engine speed 10% in fast idle. Turn knob counterclockwise to reduce speed.

**7 Elevator Fan:** Controls elevator fan air volume. Press and hold top to increase; bottom to decrease.

**8 Cylinder Speed:** Controls RPM of 4th and 5th picking cylinders. Press and hold top to increase; bottom to decrease.

**9 Engine Speed:** Controls engine RPM. Top = fast idle (2540 RPM); middle = mid idle (1850 RPM); bottom = slow idle (1300 RPM). Indicator light comes on.

**10 4-Wheel Drive:** Controls optional four-wheel drive system. Press once to use; press again to turn off.

**11 Header Height Activation Buttons:** Controls header height resume and header height sensing. Header engage switch must be on.

**12 Quick Stop Switch:** Shuts off header engage, unloading conveyor drive and conveyor swing at once when pressed.

**13 Bin Lift:** Lifts and lowers peanut bin. Press and hold top to lift; bottom to lower.

**14 Header Lift:** Raises and lowers header. Press and hold top to lift; bottom to lower.

**15 Conveyor Swing (if equipped) or Dump Combine Lip Extension/Retract:** Press top to swing out or retract; bottom to swing in or extend.

**16 Unloading Conveyor Drive:** If equipped with Off-loading Conveying System, press to start unloading conveyor; press again to stop.

**17 Active Header Control:** Used to control and display header height sensing and header height resume.
<u>To use header height sensing</u>:
1. Turn on header engage switch.
2. Press **a**–header height sensing switch.
3. Press one of the header height activation buttons. The height set point displays on screen.
4. To change set point, press activation button and turn height control dial.
5. Press header height sensing switch again to turn off system.
<u>To use header height resume</u>:
1. Turn on header engage switch.
2. Press **b**–header height resume switch.
3. Press one of the header height activation buttons. The header height displays on screen.
4. To change set point, press activation button and turn height control.
5. Press header height resume switch again to turn off system.

**18** Used for calibration purposes only.

**19 Triple Display Tachometer:** Displays on upper display line – fuel gauge, coolant temperature gauge, and ground speed. Middle and bottom display lines display according to button selected. Top line of buttons (left to right): engine speed, not used, elevator fan dampener position, up/down arrows to switch between displays. Bottom line of buttons (left to right): not used, header auger speed, engine hours/separator hours.

## Working Adjustments

| Control | Starting Position | Adjustment |
|---|---|---|
| Picking control board** | Start with control handle in ½ position | If vines are brittle, move handle toward disengage for less aggressive threshing action. To remove very small peanuts from bunch type vine clustered around tap root or for tough conditions, move control toward engaged for more aggressive threshing action. |
| Breast spring bars** | Start in disengaged position. | Engage after picking control board has been fully engaged and peanuts are still not being separated from the vines. Engage in 1" increments between performance checks, beginning with #3 cylinder breast spring bar. |
| Cleaning air control** | Set initially in ¾ open position. | Open further to remove light trash from bin until a few good peanuts are being blown out over tailboard. Then decrease in ¼ " increments until no more good peanuts are being blown out over the tailboard. |
| 10% speed reduction switch (located on armrest console) | Start harvesting with button in full clockwise position. | If picking control board and breast spring bars are completely disengaged and/or springs removed, and peanuts are being removed but shelling is still occurring, reduce engine speed to slow picking cylinders. Turn knob counterclockwise to decrease. |
| Cylinder speed button (located on armrest console) | Set initially at 180 RPM. | Increase speed for tough conditions or if peanuts are being left on vines. If conditions are dry and peanuts are susceptible to damage or shelling is occurring, decrease speed. Tachometer readout displays the RPM of the fourth cylinder. |
| Header speed button (located on armrest console) | Set speed to pick up the windrow completely as combine travels. | If header is too slow, it will push vines along before picking them up, causing peanuts to fall off of vines. If too fast, vines will be pulled apart before entering combine, causing peanut loss. Dry vines typically need higher speeds than green. If windrows have excessive dirt, increase speed. |
| Header height Buttons (located on multi-function handle) | | Operate at height where springs run just barely above soil, low enough to pickup vines but high enough to avoid debris. To change physical height, add or remove spacer rings or adjust gauge wheel jacks. |
| Elevator fan button (located on armrest console) | Start at ½ to 2/3 open. | Adjust the fan so that the peanuts flow into the bin smoothly, piling in the far side. Only reduce air volume if excessive shelling is apparent. In very high yield peanuts, may need to operate at maximum air volume. When button is pressed, speed in relative number displays on bottom unit of corner post monitors. |
| Dual speed picking cylinder drive** | Start in fastest position. | Do not change until you have tried 10% speed reduction and have backed off all breast springs and picking board. Fastest position is with drive chain on larger jack shaft sprocket cylinder. In dry or brittle conditions, switch to low setting by moving main drive chain from largest to smallest sprocket on main jack shaft. |
| Variable speed picking cylinder drive button (located on armrest console) | Start at 180 RPMS when engine is running at full speed of 2510 RPMS. | Adjust higher or lower depending on crop conditions. If stick trash and/or shelling occur, speed is too high. When button is pressed, speed in RPM displays on the bottom unit of corner post monitors. |

**Perform these adjustments ONLY when the combine is not in use and the engine is turned off with the key removed.