

# ***CONTROLS***

## **Driver Station**

### **Steering**

BRUTUS 2014 features a steer by wire system. Steering is controlled through an integrated circuit containing a linear rocker potentiometer and a 12-volt actuator. When the linear rocker potentiometer is changed, the voltage being sent to the motor controller changes, signaling the actuator to extend or retract and at what speed to perform this task. If there is a loss of power from the ignition switch, power ceases to flow through the controller preventing the tractor from steering. If the engine dies, the tractor will still retain steering until the key switch is turned off.

### **Seat**

The seat has a forward and backward adjustment. To adjust the distance between the foot pedals and the seat, pull the lever below the seat and then let go of the lever to lock the seat in the desired position.

### **Ignition Switch**

The ignition switch is a three-position, key-operated switch. The key can be removed from the switch when it is in the OFF position.

### **Clutch**

Depress the clutch pedal to slow the vehicle and it change gears. The clutch pedal is located on the left side of the engine. The clutch pedal is the single pedal.

### **Brake Pedal**

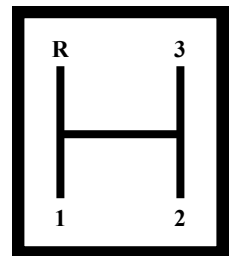
Depress the brake pedals to slow or stop the vehicle. The brake pedals are located on the right side of the engine. The brake pedals are the pair of pedals with the proximal pedal being for the left side of the vehicle and the distal pedal being for the right side of the vehicle. For a figure, see page 24.

### **Throttle**

Push the throttle hand down to increase engine speed. Spring pressure returns the throttle handle to low idle position when released. Always check that the throttle handle returns to dead man before starting the engine. For a figure, see page 24.

### **Gear Selection**

To change gears, engage the clutch pedal with the engine idling, push the gear shift lever to the desired gear and engage. Before shutting down the engine or leaving the vehicle return to the neutral gear. The gear shift lever is located right below the driver's seat in the center of the fender. A schematic of the gears in relation to the shift lever position is shown to the right..



### **High/Low Engagement**

The High/Low range is engaged by a lever located to the left of the gear shift lever. To engage or disengage the high/low range, engage the clutch pedal with the engine idling and apply a small amount of force to the high/low range lever. Before shutting down the engine or allowing the vehicle to return to neutral gear, allows disengage the high/low range. It is also highly recommended that the high/low range be disengaged before shifting between gears.