



**OWNER / OPERATOR MANUAL**

# **Model 700**

# **Pneumatic Roller**

**Year: \_\_\_\_\_ Serial Number: \_\_\_\_\_**

**Kubota Engine Serial Number: \_\_\_\_\_**

Manufactured By:  
Shannon Chastain Enterprises, Inc.  
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## SECTION I

# SAFETY PRECAUTIONS

**WARNING – LETHAL EXHAUST GAS!** An engine discharges carbon monoxide during operation, which may cause death if inhaled for even a short period of time. Operate only where deadly exhaust can be safely dissipated.

**WARNING – DANGEROUS FUEL!** Never add fuel to fuel tank while the engine is operating, Stop engine and allow it to cool thoroughly to prevent fuel from igniting on contact with hot parts.

**WARNING – MOVING HOT PARTS!** Careless operating of power equipment creates hazards to life and limb. Never operate with safety guards removed. Keep hands, feet, and clothing away from hot parts. Remember that an engine gets hot while operating, and exhaust system components get extremely hot. Never tamper with governor setting to gain more power. The governor establishes safe operating limits. Over speed not only shortens engine life but can be extremely hazardous. Keep people away from the operating area and be especially watchful for children. Stop the engine whenever you leave the machine. Do not allow it to idle unattended.

**WARNING – AVOID RUNAWAY!** Always engage the parking brake before dismounting the BASIC roller. When parking the machine overnight always park on a level surface when possible and secure the tires with blocks in the front and rear to prevent accidental rollaway. When it is not possible to park on level ground, position the machine at right angles to the slope. Make sure the machine is on a firm footing and that there is no danger of sliding.

Never mount or dismount a machine that is moving. Maintain control of your machine at all times.

Always operate your machine slowly until you are fully familiarized with its operation.

Constantly check your work area for possible hazards.

## SECTION II

# PRESTART CHECKLIST

NOTE: To assure fluid level readings, be sure the machine is parked on a level surface.

- ✓ Inspect fuel level and replenish as necessary
- ✓ Check engine oil level and replenish as necessary to the full mark
- ✓ Check radiator coolant level and replenish as needed
- ✓ Check battery cable connections and insure good contact is being made
- ✓ Check air cleaner for cleanliness and insure that components are tight to prevent intake of unfiltered air
- ✓ Check front of radiator for debris and clean if necessary
- ✓ Check hydraulic fluid level and replenish as necessary
- ✓ Inspect engine fan, all belts and hoses and adjust or replace if necessary
- ✓ Check cocoa mats for wear, and clean as needed
- ✓ Check the sprinkler tank water level and fill if roller is to be used in asphalt
- ✓ Make a general inspection of the machine for loose bolts and/or components

## SECTION III

# STARTING PROCEDURE

- ✓ Engage parking brake
- ✓ Place the directional/speed control lever in the “park” position
- ✓ Set throttle control to idle position
- ✓ Turn key switch to preheat position and hold for 10 to 15 seconds. If restarting a warm engine, no preheating is required
- ✓ Turn ignition key to “start” position and hold until engine starts. Release key, it will automatically return to “run” position
- ✓ Allow engine and hydraulic oil a few minutes to warm before beginning operations
- ✓ Make sure all personnel and objects are clear from the path of travel
- ✓ Release parking brake
- ✓ Move the directional control lever to the desired direction of travel slowly

**CAUTION:** Never attempt to start the engine except from the operator’s station.  
Never attempt to operate the controls except from the operator’s station.  
Never mount or dismount a machine that is moving.

## SECTION IV

# STOPPING PRECEDURE

- ✓ Slowly destroke speed control lever to the “park” position
- ✓ Engage parking brake
- ✓ Push engine throttle control to “idle” position
- ✓ Turn ignition key to “off” position
- ✓ Remove key
- ✓ Place block in front and rear of wheels to prevent movement
- ✓ Park on level ground whenever possible. When not possible, position the machine at right angles to the slope. Make sure the machine is on a firm footing and that there is no danger of sliding.

**CAUTION:** Never jump off of the machine.  
Dismount slowly and carefully.

## SECTION V

# OPERATION AT THE JOBSITE

1. Follow the instructions in Sections II and III of these operating instructions for prestart and starting procedures
2. Determine the amount of compaction desired and fill the front and rear tires and ballast tank with water
3. Fill the steel sprinkler tank with water
4. Position the machine next to the asphalt mat at the desired starting point
5. Lower the cocoa mats onto the tires
6. Before driving the roller onto the asphalt, turn the front and rear water valves to the maximum open position and allow the water to completely flood the tires
7. Set the engine throttle at desired speed
8. Slowly and steadily drive onto the asphalt
9. Begin rolling the outermost edge of the mat
10. Reduce the water sprinkling flow to the point that asphalt will not stick to the tires
11. When the roller nears the end of its travel, slowly decelerate and come to a smooth stop
12. Reverse the direction of travel by gradually moving the speed control lever to reverse
13. Gradually turn the steering wheel as the machine moves, to avoid leaving marks in the mat
14. As the machine reverses its direction of travel, steer it so that the machine moves over one tire width per pass
15. Continue this method until an entire section of the mat has been completed
16. Move on to the next section of asphalt and repeat steps 8 through 15 of the section