3313 OPERATING INSTRUCTIONS

Never permit anyone to remove paving material from the hopper or auger trough while the paver is running.

Never attempt to attach or remove any part or assembly on the paver while it is running.

Always be sure that all control switches are in the “OFF”, ”Pause” or “Neutral” position, hopper wings and screed are lowered and the engine is shut off before leaving the operator’s station.

Never use the wash down system when the screed heaters are lit or operating.

Never clean, lubricate or service the paver when it is running.

Never attempt to service or enter under the elevated hopper bed unless the safety prop is in place and secured. SERIOUS PERSONAL INJURY OR DEATH COULD RESULT!

Do not open propane valves to the screed burners unless flame is present to light the burners. An accumulation of unburned gas could result in explosion. Do not allow smoking when lighting propane fired screed burners.



The COMPLETE OBSERVANCE of one simple rule would prevent many serious injuries.
That rule is:
“NEVER ATTEMPT TO CLEAN, LUBRICATE, OR ADJUST A MACHINE WHILE IT IS RUNNING.”

OPERATING INSTRUCTIONS

DRIVE OFF PROCEDURE

Be sure all shields and guards are in place and in good condition before starting the machine.

Be sure the direction-speed control levers and all switches are in the “OFF”, “PAUSE” or neutral positions before starting the machine. Assure that all hands and feet are clear of moving parts before starting paver.

Make sure everyone is clear of the paver before starting so they cannot be struck by or caught in moving parts.

1. Mount the machine using the steps and handrail provided at the rear of the machine.

2. Position both DIRECTION-SPEED CONTROL LEVERS in the neutral (centered) position. Position the PAUSE/GO SWITCH to “PAUSE”. Position the “High Speed/Low Speed” switch to the “Low Speed” position.

3. Hold the secondary start toggle switch while turning the ignition key to the “START” position. Continue to hold the secondary start toggle switch for proximally 10 seconds. The engine should start and idle. Let engine idle for a short warm up period.

4. If the screed is not already up, move the screed lift control lever so that the screed raises. When the screed reaches the maximum height stops, release the screed lift lever. The screed should remain up.

5. To move the machine, position the PAUSE/GO SWITCH to “GO”.CAUTION: There are two (2) PAUSE/GO switches on the machine, one on each operators station. To pause the machine's movement, only one of the switches must be engaged to the “PAUSE” position. Both switches must be engaged to the “GO” position to enable the paver to move.

6. Push the DIRECTION/SPEED LEVERS forward slowly for FORWARD movement, or pull them backward slowly for REVERSE movement. The further the levers are moved, the faster the machine will travel.
CAUTION: The DIRECTION/SPEED LEVERS control each track drive independently, the left lever controls the left track and the right lever controls the right track. Use EXTREME CAUTION as to move the levers together, so that the machine will be propelled in a straight motion.

7. To Stop machine, bring the DIRECTION/SPEED LEVERS back to NEUTRAL. Position the PAUSE/GO switch to “PAUSE”.

8. Turn the ignition key switch to the OFF position.

9. Place the screed lift lever to the “Float” position to lower the screed on to the ground.

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STEERING AND SPEED CONTROLS

The paver's steering and speed controls are two control levers, located on top of each operators consoles (Fig. 3). These levers individually control the forward and reverse direction and speed of the track drives and can be used to steer the paver (Fig. 3). When both levers are full forward (or reverse) the paver will travel in a straight line in that direction. When the left lever is full forward and the right lever is full reverse, the paver will fully counter rotate. When the levers are pushed or pulled from the centered or “neutral” position, the machine will react accordingly. The farther the levers are actuated, the faster the machine will travel. The paver may be stopped without disturbing the lever settings, by flipping the “RUN/PAUSE” switch to the “PAUSE” position. Be very careful when using this feature to reengage the track drive system because when the “RUN/PAUSE” switch is flipped to the “RUN” position, the paver will react suddenly, in the same direction as it was traveling previously.

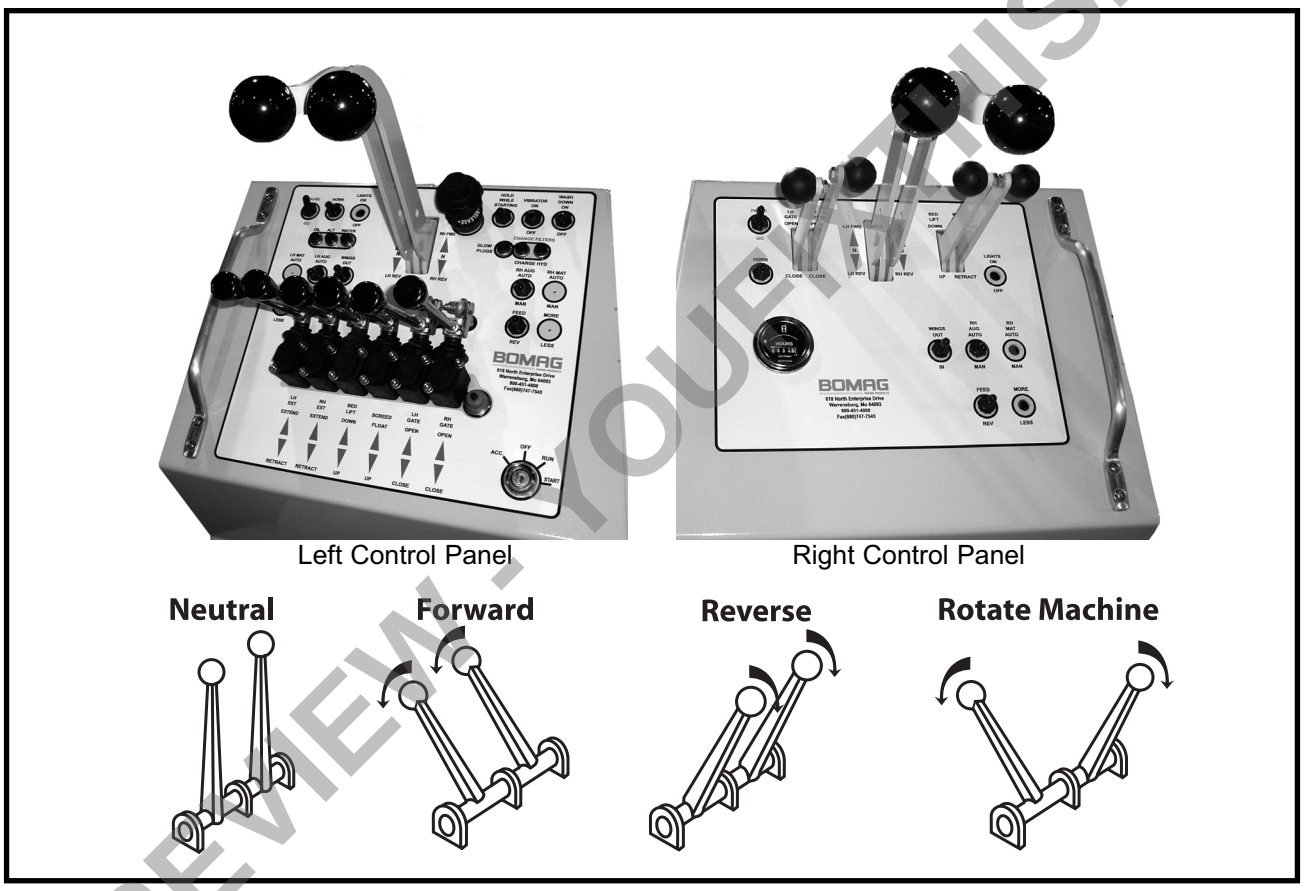


Figure 3 Paver Directional Controls

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CAUTION: **Do not attempt service or repairs you don't understand or cannot performcompetently.**

If any safety related defects are discovered, inform the operator to shut the machine down and correct the defect.

THE COMPLETE OBSERVANCE OF ONE SIMPLE RULE WOULD PREVENT MANY SERIOUS INJURIES. THAT RULE IS: "NEVER ATTEMPT TO CLEAN, LUBRICATE, OR ADJUST A MACHINE WHILE IT IS RUNNING"!

MAINTENANCE AND SERVICE PROCEDURES

It is very important to keep your new paver properly lubricated for maximum performance and optimum life of its components. There are thirty-six (36) grease zerks on the paver, twenty (20) of which are located under the hopper bed assembly. There are six (6) zerks located above the hopper bed assembly, and ten (10) zerks located on the screed assembly.

CAUTION: **Before attempting any service procedures on the paver, remove the ignition key to prevent unexpected starting by other personnel.**

Never clean, lubricate or service the paver when it is running.

DANGER: **Never attempt to service or enter under the elevated hopper bed unless the safety prop is in place and secured. SERIOUS PERSONAL INJURY OR DEATH COULD RESULT!**

Recommended lubrication schedule is as follows:

Hopper Frame Assembly

1. Hopper Mounted Auger Bearings 4 each Weekly or 50 hours

2. Screed Arm Pivots 2 each Weekly or 50 hours

3. Track Return Idler Bearings 4 each Weekly or 50 hours

UNIMAT SCREED ASSEMBLY

4. Extension Guide Tubes 4 each Weekly or 50 hours

5. Extension height Adjusters (pic) 4 each Daily or 10 hours

6. Depth Control Bearings (pic) 2 each Daily or 10 hours

7. Depth Control Nuts (pic) 2 each Daily or 10 hours

Your paver's hydraulic system requires clean hydraulic fluid. Take every possible precaution to keep it clean. The replacement of the hydraulic filters, hydraulic oil, and gear lube in the planetary gear drives should be foremost in your servicing schedule. To insure maximum performance and optimum life of your Paver, observe the following recommended lubrication schedule.

8. Pressure Filter 1 each After first 50 hours (on power unit) then every 200 hours

9. Return Filter 1 each After first 50 hours (on power unit) then every 200 hours

10. Hydraulic System Oil - 20 gallon Annually or 800 hours (drain plug located on lower side of reservoir)

11. Gear Lube (SAE 90w EP) 2 quarts Annually or 800 hours (under hopper bed on each track drive 2 each)

Refer to the Power Unit Section for recommended service/lubrication procedures for the engine and radiator.

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3313 OPERATING INSTRUCTIONS

GENERAL SAFETY INSTRUCTIONS

One of the primary considerations in designing and manufacturing this BOMAG paver was to make the machine and the operation of same as safe as possible. Shielding, simple adjustments and other safety features were built into the paver wherever possible.

CAUTION: **All machinery should be operated and serviced only by responsible persons who have been properly instructed and delegated to do so. Read and thoroughly understand all instructions contained in this manual, the engine manual, and all optional equipment manuals before attempting to operate or service the paver.**

Only the operators should be allowed on the operator's platform when the paver is in operation.

Clothing worn by all persons working close to the paver should be fairly tight and belted. Loose jackets, shirts or pants should never be worn because of the danger of getting caught in moving parts.

Be sure all shields and guards are in place and in good condition before starting the machine.

Always mount and dismount the paver from the rear, using the walkway, steps and handrails provided. Never dismount paver to the side, or forward.

Assure that all hands and feet are clear of moving parts before starting paver.

Make sure everyone is clear of the paver before starting so they cannot be struck by or caught in moving parts.

Never move the machine with the hopper bed lifted in the "UP" or servicing position, this will make the paver heavy on the rear, and very hard to control.

Keep the operator's platform clean, Do not use it as a place to carry loose tools, lunch boxes, etc.

Refuel the paver only when the engine has been shut off. Do not permit sparks, open flames or smoking within 50 feet of paver when refueling. Never refuel paver with screed heaters lit and operating.

Never allow horseplay near the paver when it is in operation or being serviced.

WARNING: **Escaping hydraulic fluid under pressure can have sufficient force to penetrate the skin, causing serious personal injury. Before disconnecting any hydraulic lines, be sure to relieve all pressure. Before applying pressure to a system , be sure all connections are tight and that all lines, tubes, and hoses are not damaged. Fluid escaping from a very small hole can be almost invisible. Use a piece of cardboard or wood, rather than hands, to search for suspected leaks.**

If injured by escaping fluid, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.

Always be sure that all control switches are in the "OFF", "Pause", or "Neutral" position, hopper wings and screed are lowered and the engine is shut off before leaving the operator's station.

Never use the wash down system when the screed heaters are lit or operating.

Never clean, lubricate, or service the paver when it is running.

Do not open propane valves to the screed burners unless flame is present to light the burners. An accumulation of unburned gas could result in explosion. Do not allow smoking when lighting propane fired screed burners.

Do not allow smoking or the use of open flame when checking the electrolyte level in the battery. An explosion could result. If skin or eyes are exposed flush immediately with water and see a doctor.

Refill the radiator only when the engine is stopped or idling slowly. This paver has a pressurized cooling system. To avoid being scalded when radiator cap is removed, first turn cap to slightly to the stop which allows steam to escape through the overflow pipe. After all pressure is relieved, remove cap.

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