



FBR-15 Coal Hauler



Operator Manual

Serial No. 5002133

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2. General Safety and Precautions

Notes, Cautions and Warnings

ALL applicable **NOTES**, **CAUTIONS** and **WARNINGS** listed in this manual are included in the support documents following the same format as defined below.



NOTE

Indicates a procedure or condition that is essential for personnel working on the equipment to know.



CAUTION

Indicates an action or condition that, if not followed, could cause damage to the vehicle or other equipment.



WARNING

Indicates an action or condition that, if not followed, could cause serious injury or even death to the operator or other personnel.

4. Machine Orientation, Controls and Functions

4.2 Control Locations

4.2.10 Steering Wheel

The steering wheel controls the flow of hydraulic oil to the steering cylinder. As the cylinder strokes, the vehicle articulates to the LEFT or to the RIGHT.

Turning the wheel ANTI-CLOCKWISE articulates the vehicle toward the operator. This effectively turns the vehicle to the LEFT in the forward direction (tractor end).

Turning the wheel CLOCKWISE articulates the vehicle away from the operator. This effectively turns the vehicle to the RIGHT in the forward direction (tractor end).



NOTE

The machine will turn in the opposite directions when travelling in forward and reverse. Operator training and familiarity with coal hauler operation is important to ensure that collisions are avoided.



NOTE

If the engine should stall, the machine is fitted with a system that will dump the steering pressure in under 30 seconds. The operator can steer the machine via a 6 litre back up accumulator at any time following an engine stall to immediately bring the vehicle to a safe controlled stop.



NOTE

If the door is opened or the park brake is applied, the machine is fitted with failsafe steering system that will immediately dump the steering system pressure. This is to protect the operator or personnel from being crushed in the articulation area. Steering cannot be used until the door is shut and latched and the park brake control reset to the OFF position.

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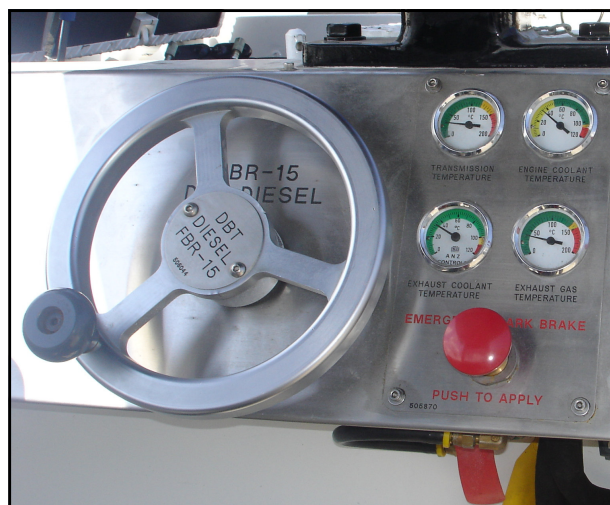


Figure 4.2.10.1 - Steering Wheel

5. Machine Isolation

5.2 Pneumatic Isolation

To isolate the pneumatic system perform the following procedure:

1. Shutdown the diesel engine, fit a danger tag to the ON/OFF toggle valve, connect the articulation lock and chock the wheels.
2. Locate the isolating ball valve in front of operator above the eject control lever and rotate to the OFF position.
3. Relieve air pressure in the system lines by successively switching the ON/OFF toggle valve in the operator's compartment until the air pressure gauge on the dash board reads zero when the toggle switch is in the ON position.



NOTE

If work is required on the air receiver it will be necessary to remove air pressure from the receiver by actuating the drain valve located at the bottom of the air receiver. Stored air pressure will be safely released to the atmosphere. Ensure that the three-way ball valve is not connected to an external pressure source.



WARNING

Compressed air can be hazardous. Wear suitable protective equipment such as safety glasses and hearing protection.

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Figure 5.2.1 - Main Air Isolating Valve



Figure 5.2.2- Main Air Isolating Valve

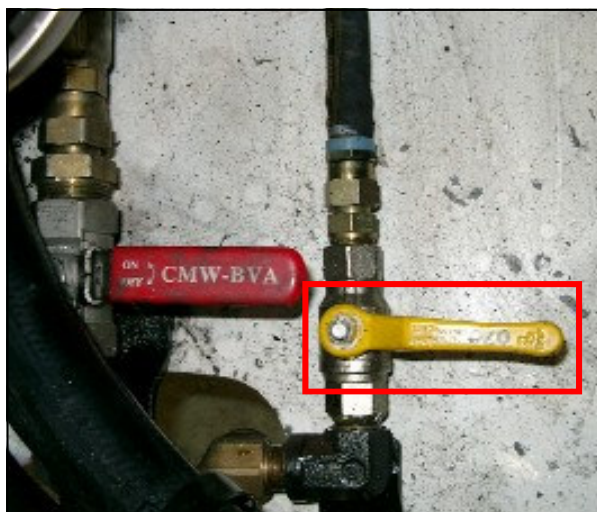


Figure 5.2.3 - Main Air Drain Valve

6. Pre-Start Procedure

13. Brake Flushing Oil Level:

The brake flushing system flushes and cools the brake heads situated behind each wheel hub on the machine:

To check the brake flushing oil level:

- a. Check sight gauge at rear of machine.
- b. Fill as required.



Figure 6.11 - Brake Flushing Sight Gauges



Figure 6.12- Brake Flushing Fill Point

9. Stopping the Engine

1. Park the machine in a suitably safe location.
2. Put the transmission directional control lever into the NEUTRAL position.
3. Remove any hydraulic load from the engine.
4. Apply the PARK BRAKE. Observe that the brake head pressure gauge is on ZERO.
5. Allow the engine to run at about idle speed for five minutes. This will allow internal temperatures to reduce gradually. Reduce engine speed to low idle for 30 seconds.



NOTE

As the engine is turbocharged, shutting down the engine when the engine's operating temperature is high may cause damage to the turbo charge and the lubrication system.

6. Turn the ON/OFF switch located on the instrument panel to the OFF position and the engine will shutdown.
7. Open the door check floor hold on and step down using three points of contact at all times.



WARNING

Any problems with the normal engine shut off mechanism must be corrected before the engine is restarted.



NOTE

If the engine fails to shutdown under the normal procedure the EMERGENCY INTAKE SHUT OFF VALVE should be used.

8. CLOSE the air tank isolation valve on the air receiver after the engine has stopped.



WARNING

Ensure the trailer tailgate is closed before leaving the operator's compartment.



WARNING

Ensure the machine is parked in an area that will not block traffic or in a blind intersection that may result in a collision.

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