



FBR-15 Coal Hauler



Operator Manual

Serial No. 500 _ _ _ _

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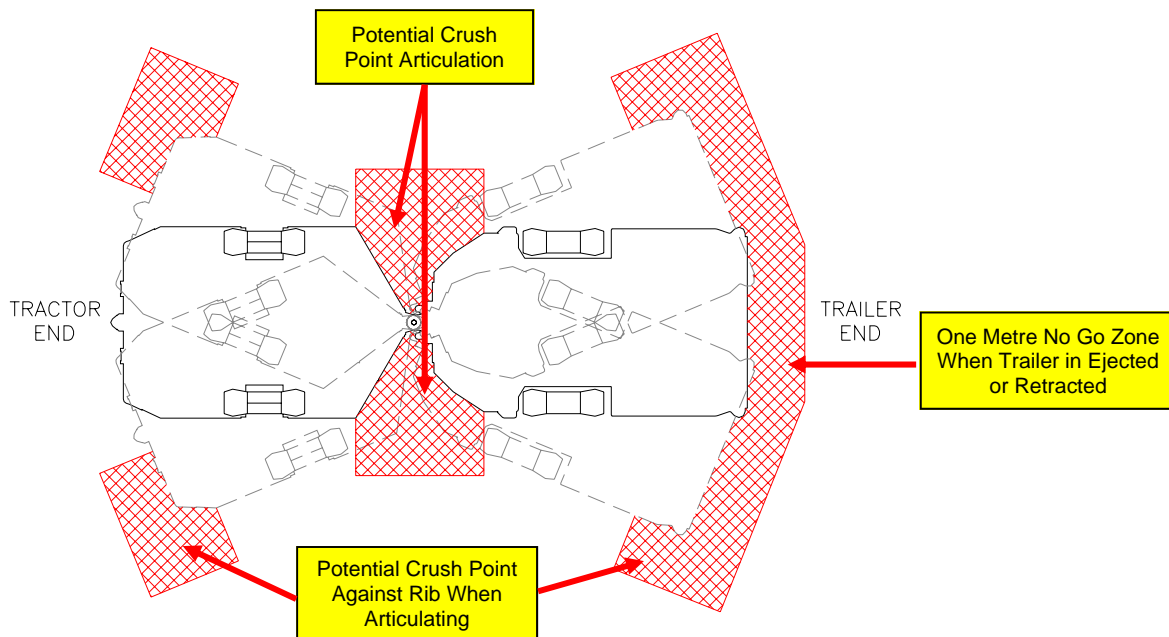


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2. General Safety and Precautions

- ALWAYS:** Operate carefully and in a responsible manner and observe all managers transport rules.
- ALWAYS:** Ensure sufficient ventilation is available to dilute exhaust gases. A nominal 8 m³/sec is recommended based on NSW mines regulations of 0.06 m³/sec.
- ALWAYS:** Stop machine and allow persons past if in the area of operation.
- ALWAYS:** Ensure area around tailgate is clear and nobody is within one metre of rear of the trailer when using the trailer ramplate and tailgate controls.



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- Keep your machine clean. A clean machine makes for a safer machine.
- No diesel engine should be operated underground if it is smoky, running unevenly, or if the exhaust system is not in good condition.
- In areas where auxiliary ventilation is used, the operator should make sure fans are operating before starting the machine.
- The engine shall not for any reason be left running unattended underground.
- The engine should not be shutdown from full load and must be allowed to idle for a few minutes before stopping.
- Never operate a machine that you feel is mechanically unsafe.

4. Machine Orientation, Controls and Functions

4.2 Control Locations

4.2.7 Operator's Seat

On the operator's seat the height, backrest tilt and seat suspension are all adjustable. The controls for these functions are beside the seat.

4.2.8 Accelerator Pedal

The accelerator pedal is connected to the diesel engine fuel pump governor via a cable connected the fuel pump throttle control lever. When the accelerator pedal is depressed the engine speed increases. The throttle pedal is spring returned so that when pedal pressure is removed, the engine returns to low idle.



CAUTION

Always keep the operator's compartment clean. Dirt, etc. can build up under the accelerator pedal restricting its movement.

4.2.9 Brake Pedal

The brake pedal when depressed applies the service brakes on the front and rear axles. There are four liquid cooled POSI STOP service brakes located internally in each axle. Whenever possible use the engine compression to slow the vehicle on a grade or decline by revving the engine to speed after selecting a lower gear.



NOTE

DO NOT ride the service brakes while tramming the vehicle.



NOTE

If the engine should stall, the machine is fitted with failsafe brake system that will fully apply the brakes in under 10 seconds. The operator can apply the brakes at any time following an engine stall to immediately bring the vehicle to a controlled stop.



CAUTION

Always keep the operator's compartment clean. Dirt, etc. can build up under the brake pedal restricting its movement.

5. Machine Isolation

Before commencing work on the machine, it is imperative to ensure the system to be worked on is correctly isolated. This may also require the isolation of other systems that affect the safe completion of the job.

5.1 Engine Isolation

To isolate the engine perform the following procedure:

1. Select "NEUTRAL" on transmission directional control lever.
2. Apply the "Park Brake".
3. Shutdown the diesel engine.
4. Fit a danger tag to the ON/OFF toggle valve.
5. Connect the articulation lock and chock the wheels.
6. Close the main air isolating valve (see Section 5.2 - Pneumatic Isolation).

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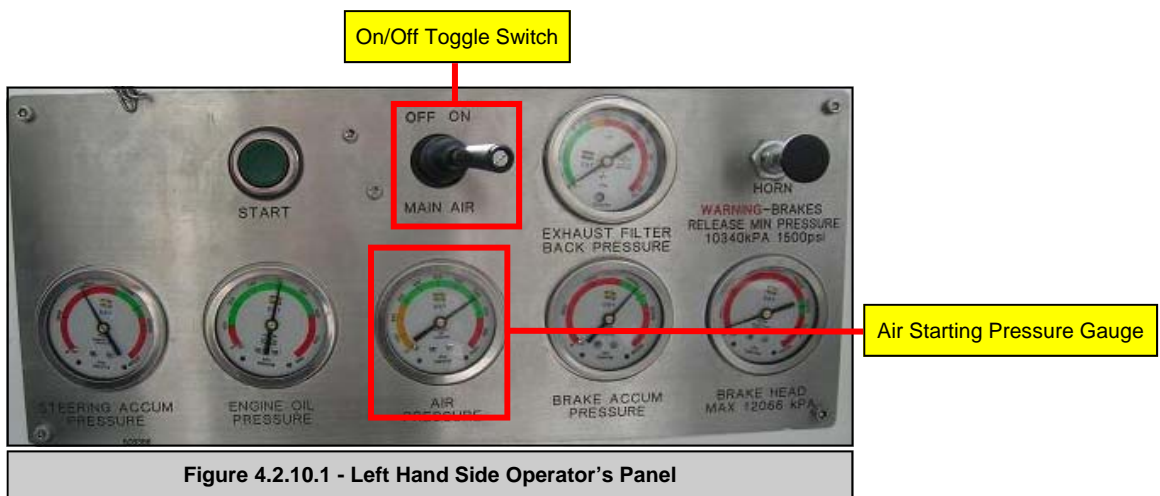
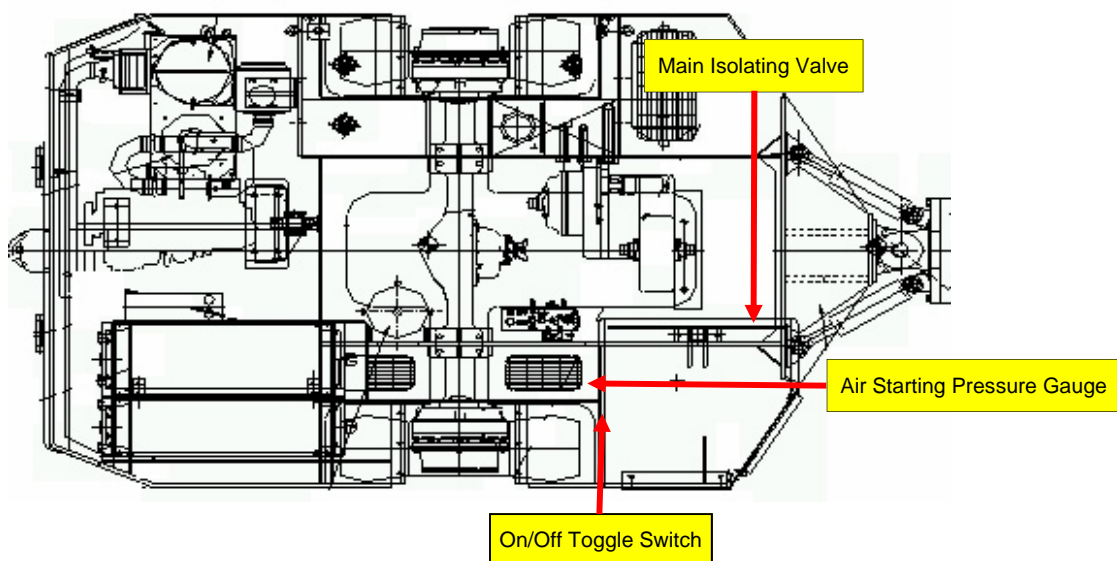


Figure 4.2.10.1 - Left Hand Side Operator's Panel



6. Pre-Start Procedure

11. Air cleaner (see Section 4.2.24):
 - a. Check the air cleaner filter condition indicator.
 - b. Replace filter element if indicator is in the red area.
 - c. Check intake pipes and hoses for loose or damaged connections.
 - d. Check flame path joints are secured.



Figure 6.9 - Air Cleaner and Indicator



WARNING

Do not operate the machine with loose intake pipe connection. This will allow particles of dust into engine and cause serious damage.

12. Check air receiver:
 - a. For damage.
 - b. Drain condensate from drain valve.



Figure 6.10 - Air Receiver Drain Valve



NOTE

It is important to drain the condensate from the air receiver on a daily basis to stop the starter motor and relay valve from being contaminated.

8. Post Start Checks

Heat Exchanger Cleaning:

Over time particulates (the small particles that are present in exhaust smoke) will build up on the heat exchanger elements which may result in decreased heat transfer efficiency. To minimise build up, the heat exchanger should be cleaned **weekly** (50 hour service).

If exhaust temperature shutdowns occur regularly, check the exhaust filter back pressure and replace if necessary. The machine may require the heat exchanger to be cleaned if the exhaust shutdowns continue. Refer to Service Manual or Safe Work Procedure for correct cleaning sequence.



NOTE

If the machine continues to shutdown on an exhaust fault after changing the particulate filter report to maintenance personnel.



WARNING

Wear suitable PPE when servicing heat exchanger including dust masks, Gloves and safety glasses.



WARNING

All plugs and covers removed must be fitted correctly and new gaskets used as these are flameproof joints.

Check the shutdown system operation:

1. Run the engine at high idle.
2. Press the shutdown test button and hold for ten seconds.
3. Machine should shutdown and the low oil pressure LED light should be on.
4. The engine should not restart until the ON/OFF toggle valve is reset.



WARNING

If the engine does not shutdown do not use the machine. Report it to the maintenance department for repairs.

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