

Driver Duties D1

Locomotives 500 & 800 Classes

Before starting

- Ensure you sign on. By signing on you are declaring you are fit for duty, have had adequate rest, and are not under the influence of drugs or alcohol.

Preparation

- Peruse all relevant notices and the log book.
- Complete the [“Daily Inspection 1435mm 1600mm Diesel Loco RSA.2006.16.pdf”](#), and complete, or ensure the Guard has completed, the [“Daily Inspection 1600mm 1435 1067mm Track RSA.2006.25.pdf”](#)
- Become familiar with the proposed running for the day, in conjunction with the Operations Manager or other authorised person
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Engine Preparation

Before preparation -

- Ensure handbrake is applied and wheels chocked

Engine Room, check –

- Level of oil in the diesel engine sump
- Level of oil in the turbocharger
- Level of oil in the radiator fan gearbox
- Level of oil in the air compressor
- Level of engine cooling water in the header tank sight glass
- For indications of fuel, oil or water leaks or other defects
- Belts (500 class only)
- Stack cap is removed (if fitted)

At ground level check -

- Brake cylinder cut out cocks are in the open position
- Coupling cocks are in the correct position and coupling hoses are coupled to the dummy couplings
- Quantity of fuel in the fuel tank is adequate
- For fuel, oil, air or water leaks or other defects

Above the footplate -

- Close the battery isolating switch
- Close the main lighting circuit breakers
- Close the main control and auxiliary control circuit breakers

At the driving position check -

- Brake valve isolating cock is open
- Automatic brake valve handle is in release/running position
- Independent brake valve handle is in application position

Control Stand-

- Battery isolation key is inserted and turned on (801 only)
- Throttle is in off position
- Reverser handle in EO position

At the non-driving position check -

- Brake valve isolating cock is closed
- Brake valve handles are removed

Engine Room –

- Inspect in and around the generator for any anomalies.
- Prime engine oil system (with prime button – 500 class only)
- Ensure all persons are clear of engine room before starting.
Then press the engine start button and hold depressed until the engine runs under its own power
- Close the indicator lights and sanding circuit breakers
- All indicator lights are illuminated (Low glow. High glow indicates a fault)
- Battery charging ammeter is registering charge
- Lubricating oil pressure registers
- For fuel, oil, air or water leaks
- With the assistance of the Observer, make the required tests of the headlight and airbrake equipment including piston travel of all airbrake cylinders

Air brake continuity test –

In the event that the consist is a passenger carrying train it shall operate with the train braking connected. When the train pipe has been through connected, the continuity test shall be conducted in accordance with

“Guidelines for Train Examining RSA.2012.352.pdf”

and the results shall be recorded on

“Daily inspection - Passenger Train Consists_ RSA.2016.15”

Movement into Traffic

- Remove the wheel chocks and that the handbrake is released
 - Proceed and work under hand signal from the NRM qualified guard or shunter
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Emergency Management

In the event of a major emergency during the shift,

- ensure the safety of the vehicle *FIRST*, if necessary chocking the wheels to prevent any further movement.
- THEN, proceed to assist the Guard in accordance with the instruction..

“Emergency Management - Rail Operations RSA.2017.355”

which is displayed in the Locomotive.

Stabling

When released from traffic by the NRM qualified shunter, carry out the following duties,

- Direct the Observer to apply the handbrake and place the wheel chocks
- Stop the locomotive and with the control handle at EO position, and leave the independent brake applied in application position
- Direct the Observer to apply the handbrake and place the wheel chocks
- Open the indicator light circuit breaker
- Set the reverser handle to off position to stop the diesel engine

Above the footplate -

- Check for leakage of fuel, oil, air water or other defects

At ground level check -

- Check for any defects, loose or dragging parts, fuel, oil, air, or water leaks

Above the footplate –

- Drain air tank of any moisture_
- Open all other circuit breakers in the control cabinet
- Close and lock all locomotive doors
- Open the battery isolating switch
- Open the main lighting circuit breakers

Report any faults or repairs