



Technical Manual

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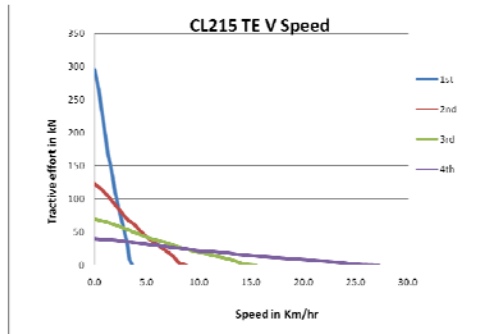
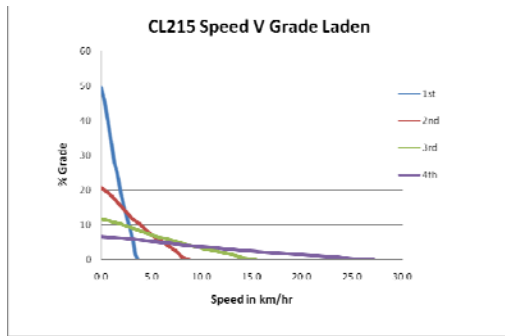
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Operation Manual



Vehicle Speeds

1st gear 3.1 km/hr
 2nd gear 7.4 km/hr
 3rd gear 13 km/hr
 4th gear 23 km/hr



Service Capacities

Hydraulic tank	300 litres
Fuel tank	300 litres
Main air receiver	80 litres
Transmission/converter oil	45 litres
Engine crankcase oil (with filter)	22 litres
Engine cooling system water	72 litres
Axle oil (each)	71 litres
Water make up tank	450 litres

Grade Ability

Front to rear 1:4
 Side to side (empty) 1:4
 Side to side 1:8



Overloading equipment could cause personal injury, death or equipment damage. Due to configuration or options these weights can vary up to 20%. Caterpillar recommends that relevant standards and safety procedures should always be used when operating this machine. Removal of protective canopies, doors, safety devices, interlocks and structures etc., could cause serious injury or death. Replacement with correctly torqued fasteners is mandatory.



CONTROL AND FUNCTIONS

COMPARTMENT DOOR

The compartment door must be closed and locked after entering the compartment before the park brake button can be released and the declutch valve be deactivated.



Never use the door to apply the park brake. Always manually apply by pressing the park brake button and ensure the brake head pressure gauge reads zero. The steering pressure will automatically bleed down, never assume the steering pressure has bled down unless the steering pressure gauge reads zero.



On both opening the operator's door and manual operation of the park brake valve, the steering pressure will automatically begin to bleed down upon engine shutdown, never assume the steering pressure has bled down unless the steering pressure gauge reads zero.



When the door is open the machine cannot be operated, as the park brake will be on and the transmission will be declutched. There is a roller cam valve in the door lock that needs to be activated to release the park brake. Also the brake system pressure is dumped with the door open. The engine will run with the door open.



DOOR INTERLOCK VALVE

Door Latch



COMPARTMENT DOOR



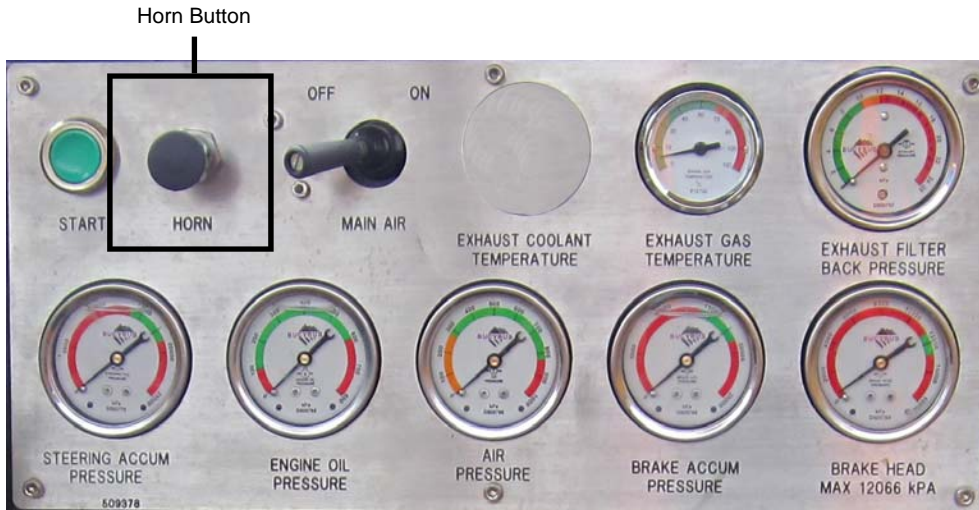
HORN BUTTON

Pushing this button sounds the air horn.



It is good operating procedure to sound the horn 2-3 seconds before an engine start or whenever approaching blind intersection.

NOTICE



RIGHT HAND SIDE OPERATOR'S PANEL

ENGINE SERVICE HOUR METER

This electric meter is mounted on the off driver's side at the rear of the machine.

Use the hour meter to determine servicing intervals.



ENGINE HOUR METER

PNEUMATIC ISOLATION

To isolate the pneumatic system perform the following procedure:

1. Ensure the area is clear of any obstructions and area is fit for carrying out safe operation and maintenance.
2. Lower the lift arms or any attachment to the ground, shutdown the engine, fit a danger tag to the on/off toggle switch, connect the articulation lock and chock the wheels.
3. Locate the main air isolation valve at the driver's side rear of the engine compartment and rotate to the *off* position and install a personal danger tag. This valve provides for personal isolation locks to be fitted.
4. Check the system for dead by observing the air pressure gauge reads zero when the on/off toggle switch is in the *on* position.



NOTICE

If work is required on the air receiver it will be necessary to remove air pressure from the air receiver by actuating the main air drain valve located next to the fill point. 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.

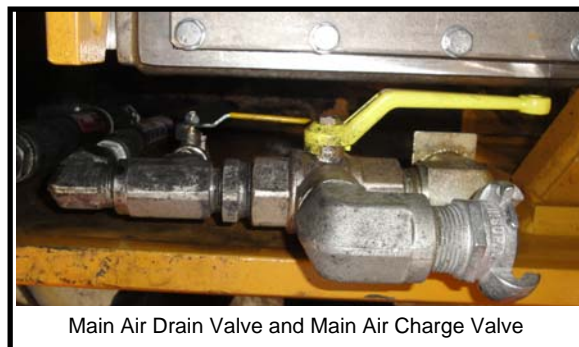


WARNING

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



Main Air Isolation Valve



Main Air Drain Valve and Main Air Charge Valve



MAIN AIR MANIFOLD

Check the engine oil level:

1. Stop the engine and allow the oil time to settle before checking via the dipstick.
2. If required the engine should be filled to the full mark on the engine dipstick. The oil fill plug is a screw type fitted to the rocker cover of the engine.
3. Ensure the correct engine oil is used. Oil specifications are listed in Section 23 - Fluid Specifications Table.
4. Do not over fill.



WARNING

Always ensure the machine is correctly isolated before undertaking any tasks.



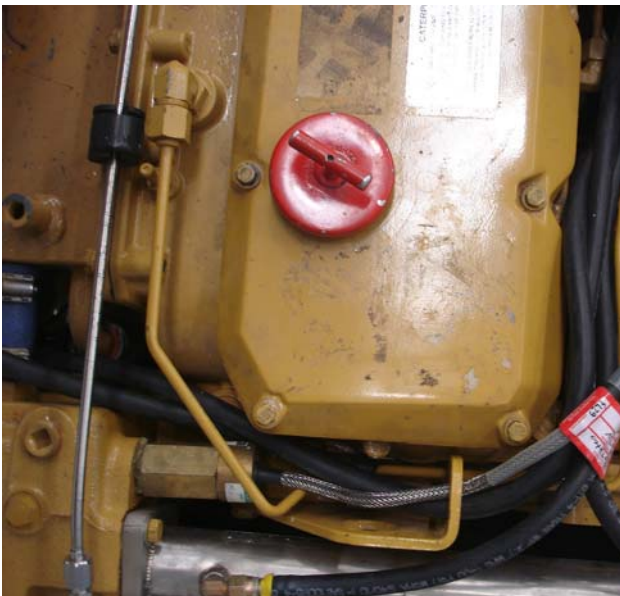
CAUTION

Always use the specified lubricant for the application and the region's seasonal temperatures. (See Section 23).



NOTICE

The oil level should only be checked with the engine stopped, the engine should be allowed to sit for five minutes before checking.



ENGINE OIL FILLER CAP



ENGINE OIL DIPSTICK



WARNING

Excessive use of starting fluid can cause serious backfire and violent explosions within the engine. Serious engine damage may occur. Avoid the use of starting aids and **DO NOT** use starting fluid (Aerostart) underground.



WARNING

The steering and brake pressure gauges register in normal operating range only when the park brake is released.



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**CAUTION**

Do not over-pressurise the brake system or serious damage will be done to the seals in the brake heads.

**WARNING**

The transmission will not hold the machine when the spring applied park brakes are bypassed by the Porta-Power pressure.

**CAUTION**

Always connect the disabled machine to the towing machine before releasing the park brake. Make sure the park brake is reapplied before the towing machine is disconnected.

**NOTICE**

Maximum towing speed is 3 kph.



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