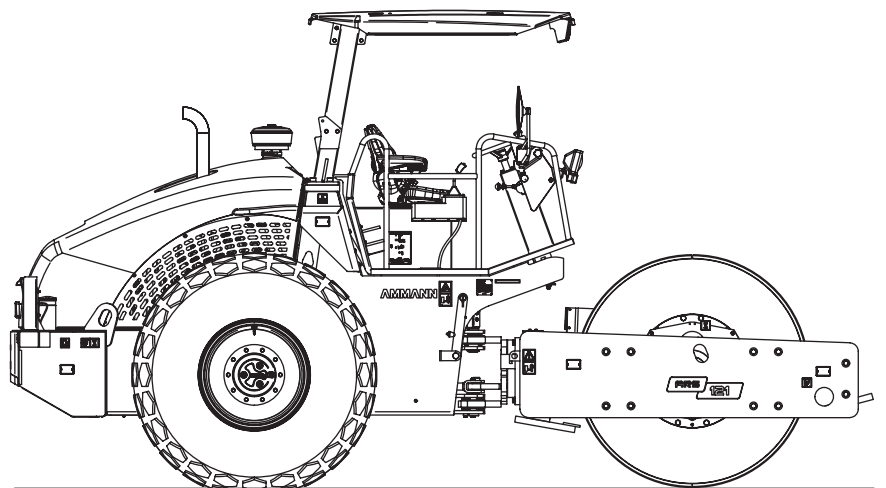


ARS 121

SINGLE DRUM ROLLER

ASHOK LEYLAND

BSIII / EU STAGE IIIA / US EPA Tier 3



OPERATING MANUAL

EDITION 11/2019 EN
From Serial No. 0101

AMMANN

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2. OPERATING INSTRUCTIONS

ARS 121 (Ashok Leyland BSIII)

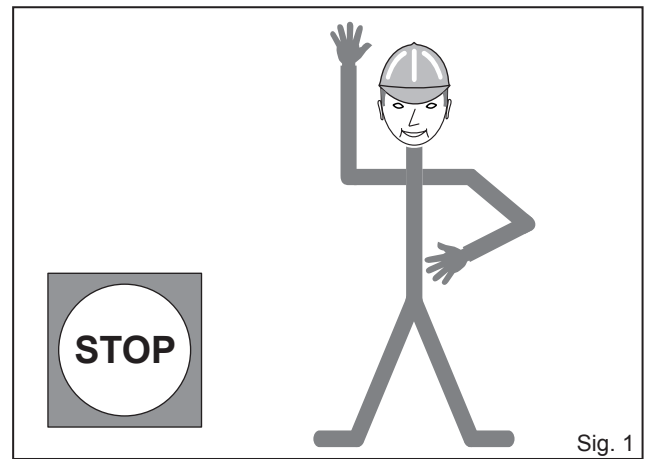
2.2.6. Hand signals

Signals given by machine Operator Assistant when Operator is unable to cover visually moving working space or utility device or tool.

General command signals

Stop

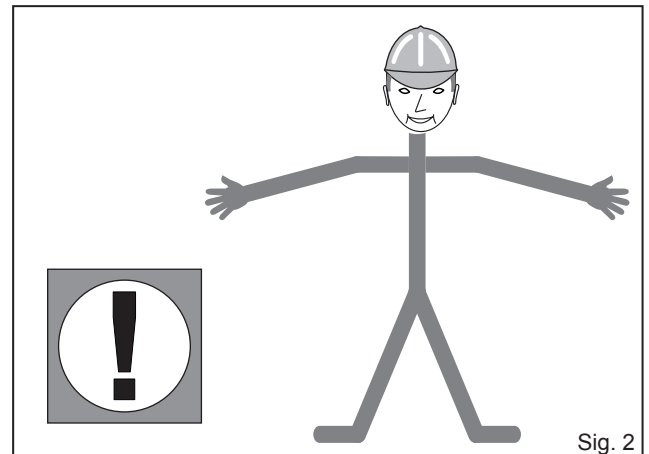
One arm rose with open palm in the direction of Operator, the other arm akimbo.



Sig. 1

ATTENTION!

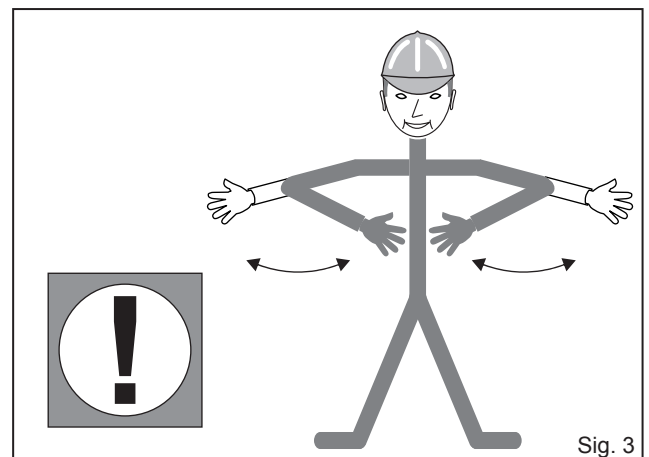
Both arms sideways raised horizontally – palms forward.



Sig. 2

Be careful of danger

Oscillating motion of both fore-arms from the position of arms sideways raised horizontally to a position of arms sideways raised – in huddled-up way and back.

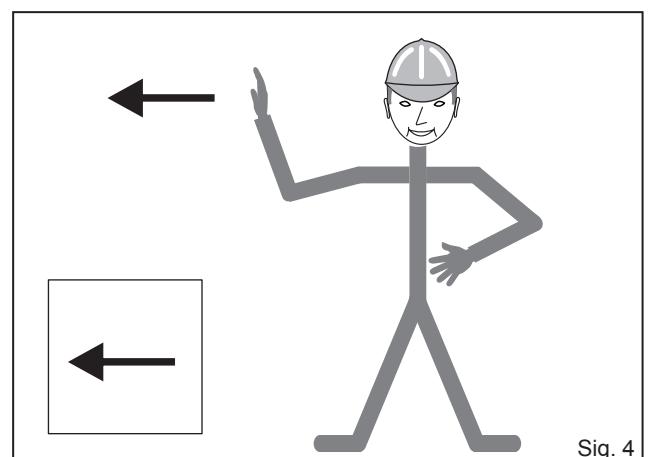


Sig. 3

Signals to drive

Drive away with the machine

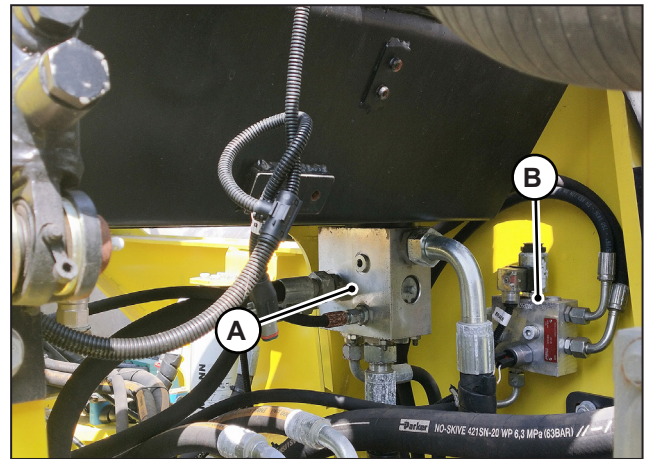
One arm erected – bent with open palm, long motion of fore-arm in the direction of required motion, second arm akimbo.



Sig. 4

Hydraulic block (A)

Location: Mounted beneath the hydraulic oil tank, on right hand side of machine, can be accessed after lifting the bonnet.



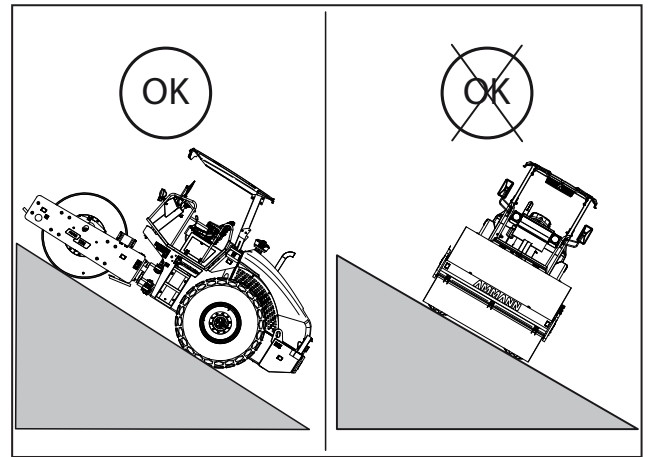
Brake block (B)

Location: Mounted beneath the hydraulic oil tank, on right hand side of machine, can be accessed after lifting the bonnet.

2.8.3. Working / Moving on slopes



Do NOT drive in cross direction at the hillsides of high slope! Possibility of machine roll-over, Drive perpendicular to a hillside!

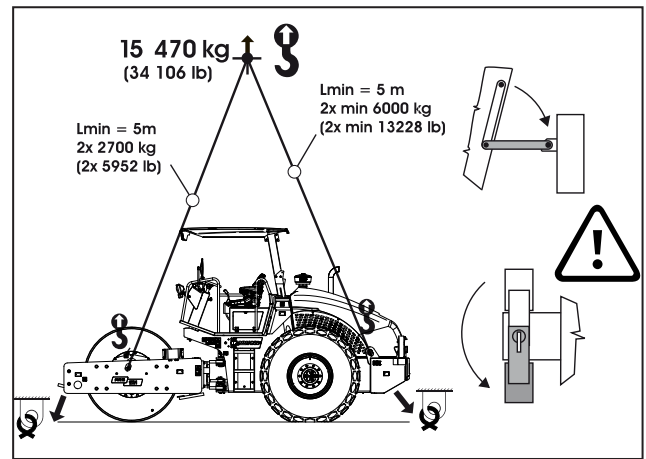


2.9.2.1. Loading the machine by crane

- Use loading platform or bridge crane of sufficient capacity to load the machine onto the carrier.
- When loading with crane the roller is fitted with slings (lifting eyes)-refer to the fig. for slinging method.
- Before lifting the roller, please lock the machine joint against being turned slightly.

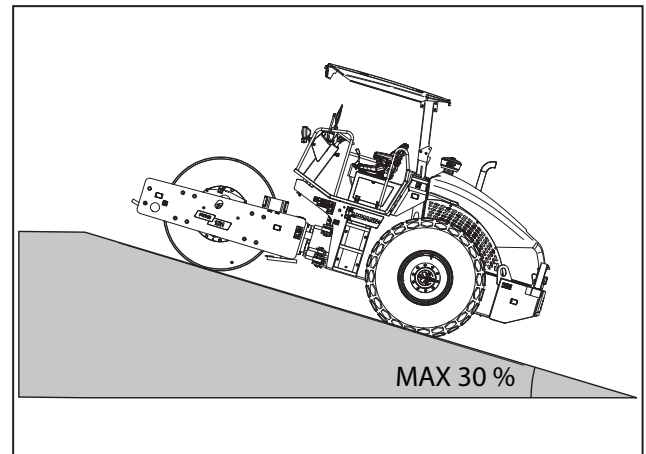


While loading the machine with crane, make sure steering joint is locked.



2.9.2.2. Loading the machine using a ramp

- When loading the machine using a ramp, all safety regulations related to loading of the machine valid in the place of loading must be adhered to. The ramp must have appropriate loading capacity, anti slip surface and must be stored on a flat surface. We recommend that you must adhere to local regulation where machine is being loaded.
- Maximum permissible incline of the ramp is 30%.



Pay increased attention when loading the machine. Improper handling can cause serious injury or death.
Do NOT enter beneath the hanging load!



Non-adherence to the prescribed parameters of the ramp may result in damage to the machine.

When loading the machine, a second person must be present to signal approach onto the ramp. See the list of hand signals in chapter 2.2.6.

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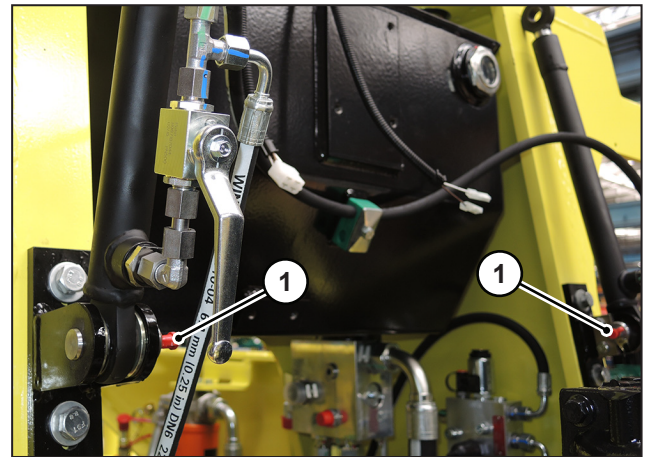


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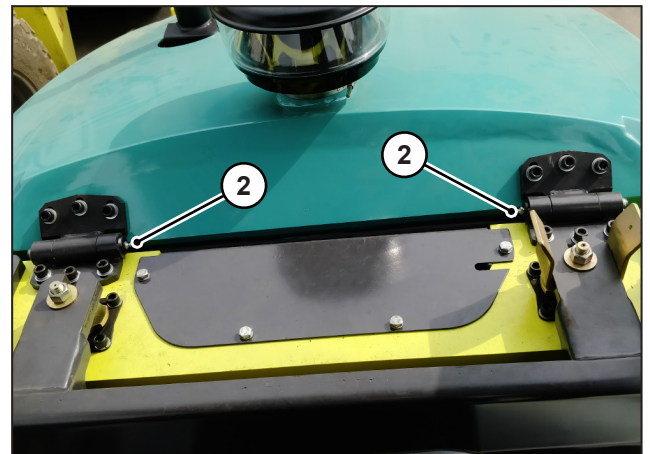
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Every 20 hours of operation	
3.6.1	Engine oil level check and restoration
3.6.2	Coolant level check and restoration
3.6.3	Hydraulic oil level check and restoration
3.6.4	Crankcase breather inspection
3.6.5	Fan condition check
3.6.6	Engine fan belt inspection
3.6.7	Engine air intake system inspection
3.6.8	Fuel level check and refilling
3.6.9	Drain water from water in fuel separator
3.6.10	Alarm and control devices check
First 150 hours of operation	
3.6.24	Wheel bolts tightening check
3.6.30	Axle - Differential oil change
3.6.31	Axle - Epicyclic gear box oil change
Every 150 hours of operation	
3.6.11	Tyre pressure check
Every 250 hours of operation	
3.6.12	Engine mounts and fasteners inspection
3.6.13	Replacement of fuel filter (mud strainer)
3.6.14	Battery check
3.6.15	Air filter vacuum switch function check
3.6.16	Machine lubrication
3.6.17	Vibrator assembly oil level check
3.6.18	Axle - Epicyclic gearboxes oil level check
3.6.19	Axle - Differential gearbox oil level check
First 500 hours of operation	
3.6.32	Vibrator casing oil change
Every 500 hours of operation	
3.6.20	Engine oil change

Lower pivots (1) 2x

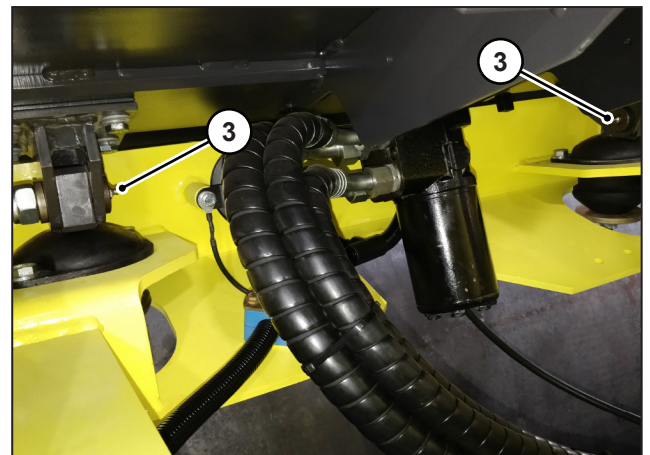


Bonnet hinges (2)



Platform front pivots (3)

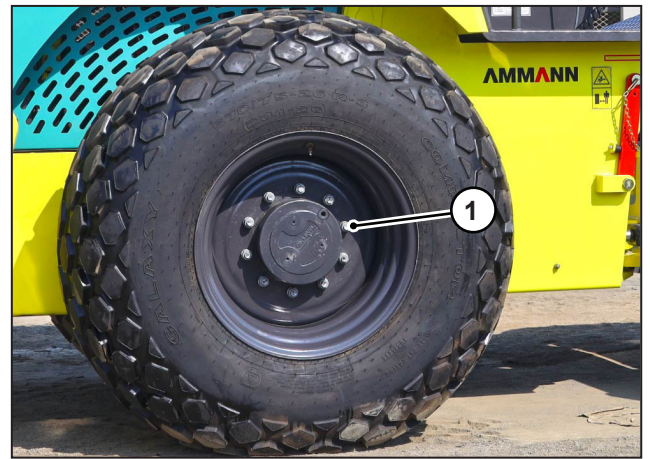
Pivots 2 x



**Use only recommended lube greases.
Refer to chapter 3.2.5.**

3.6.24. Wheel bolts tightening check

- Confirm the wheel mounting bolts (1) tightening.
- Use torque wrench and tighten the nuts with torque 500 Nm (368.8 lb. ft.).



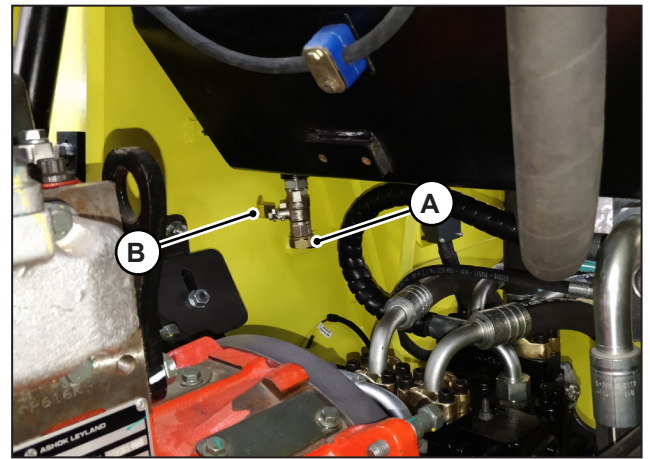
CAUTION!

Check the wheel nuts for tightness after the first 150 hrs. of machine operation.

3.6.33. Hydraulic oil, suction line filter cartridge and strainer replacement

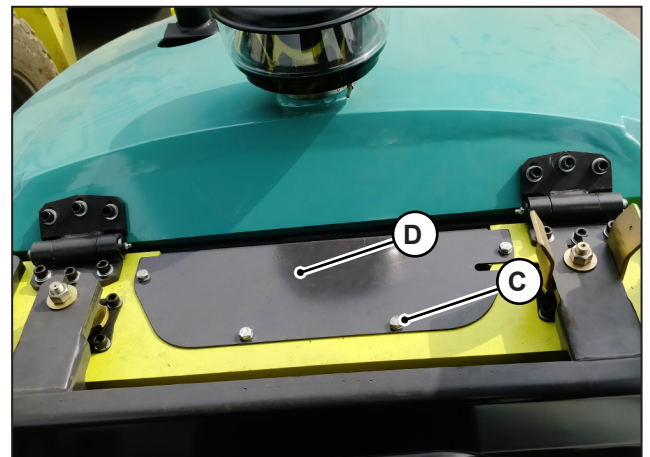
Draining hydraulic oil

- Open the bonnet and access hydraulic oil tank drain valve (B).
- Make an arrangement to collect drained oil to container.
- Remove drain plug (A) and open valve (B) to let oil flow out into a vessel installed – total amount of oil that flows out is round 60 L (15.9 gal US).
- Clean and install plug (A) back & close valve (B).

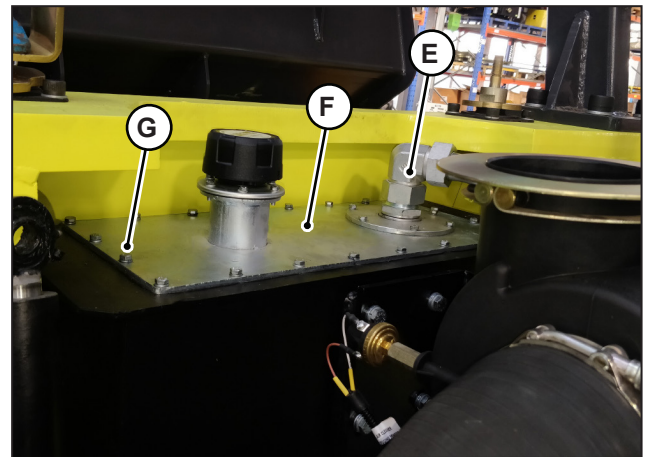


Replacing hydraulic oil strainer

- Stop the engine and let the oil temperature decrease to ambient temperature.
- Remove screws (C) to remove cover (D).



- Remove the suction hose (E).
- Remove the screws (G) then remove lid (F).
- Replace strainer.
- Inspect the interior of the tank, If the bottom is dirty, clean and rinse the tank with the new oil.
- Install the lid (F) back and secure with screws (G).
- Install suction hose (E) back.
- Install cover (D) back and secure with screws (C).

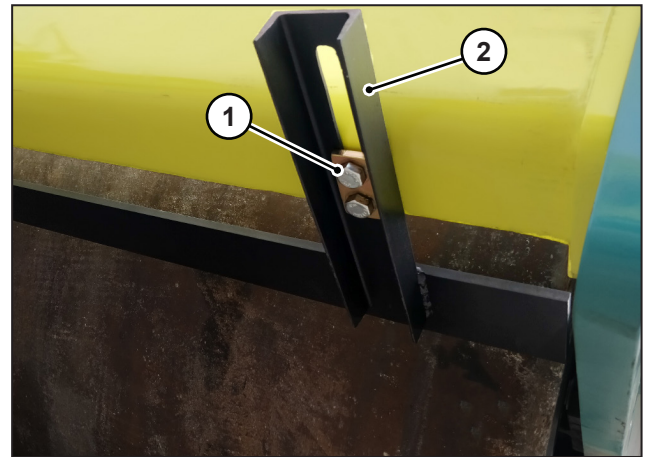


Drain oil while oil is warm!

3.6.38. Scraper adjustment

Scraper designed for smooth drum

- Loosen all bolts (1) and shift the holder (2) towards or away from the drum making the distance between scraper and drum equal to 15 mm (0.6 in.).
- Add "In machine at stop condition" at beginning
- Tighten all bolts (1) after desired setting is done.



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