VR518

Cab

S/N 3646 12001
& above

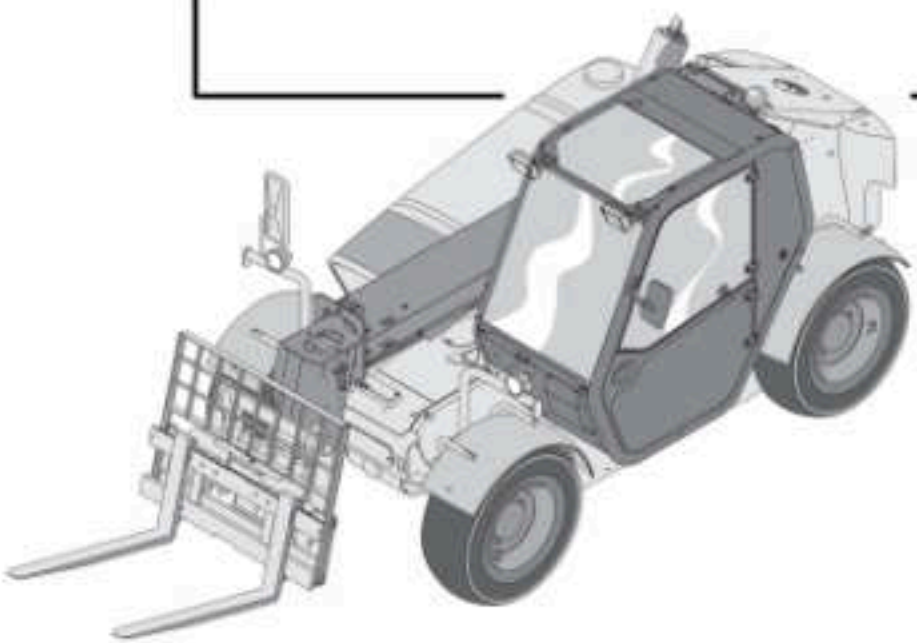
VR518

Canopy

S/N 3647 12001
& above

Ingersoll Rand

Operation and Maintenance Manual



CPN 22806467

December 2005

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SPECIFICATIONS VR518 89

MATERIAL HANDLER WARRANTY 95

REFERENCE INFORMATION

Write the correct information for your IR telescopic handler in the spaces below. Always use these numbers when referring to your machine.	
Telescopic Handler Serial Number	
Engine Serial Number	
Notes:	
Your IR Dealer:	
Address:	
Telephone:	

INGERSOLL - RAND
Material Handling Equipment
312 Ingersoll Dr.
SHIPPENSBURG, PA 17257

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FOREWORD

⚠ CAUTION

This manual was written to give the owner/operator instructions on the safe operation and maintenance of the IR telescopic handler. READ AND UNDERSTAND THIS MANUAL BEFORE OPERATING YOUR MACHINE. If you have any questions, see your IR dealer.

Contents

Serial Number Locations V
- Telescopic Handler Serial Number V
- Engine Serial Number V
- Other Serial Numbers V

Delivery Report VI

Warranty Registration VI

Identification Of The Telescopic Handler VII

Options and Accessories VIII

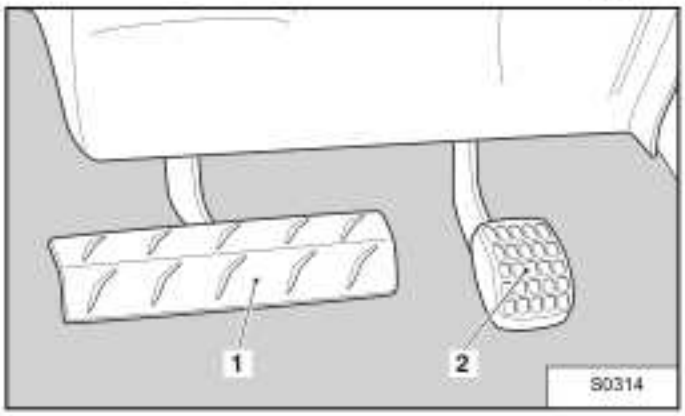
CALIFORNIA
PROPOSITION 65 WARNING

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

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Pedals

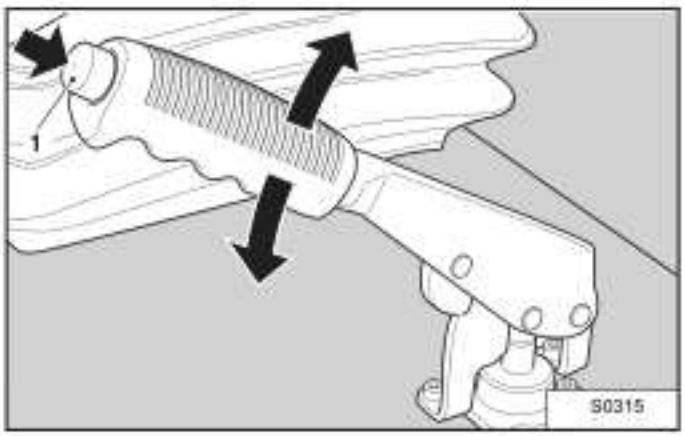
Figure 11



Ref.	Description	Function
1	**Brake pedal**	• This pedal fulfils the function of service brake. • Press the pedal to gradually slow down the machine until it stops. • Release the pedal to gradually decrease the brake action until it cancels out. • On the first half of the stroke, braking is hydrostatic. With the diesel engine in continuous mode, the machine's rate of travel is reduced until it stops, in proportion to the action on the pedal. • On the rest of the stroke, braking is mechanical (with the brake discs).
2	**Accelerator pedal**	• Press the pedal to increase the diesel engine speed to the maximum. • Release the pedal to reduce the diesel engine speed.

Handbrake

Figure 12



This lever has two functions:

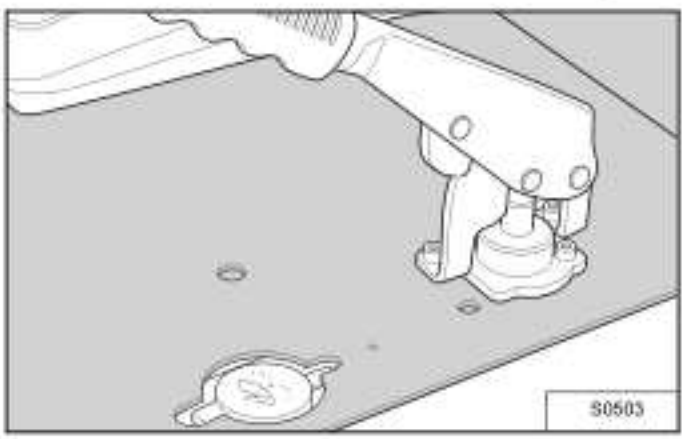
- handbrake control.
- control of the emergency brake, in case of failure of the service brake.

To apply the brake, pull the lever of the handbrake upwards until it locks.

To release the brake, pull the lever upwards, push the button (1) to release the lock. Lower the lever all the way down.

Reservoir For Windscreen Washer Liquid

Figure 13



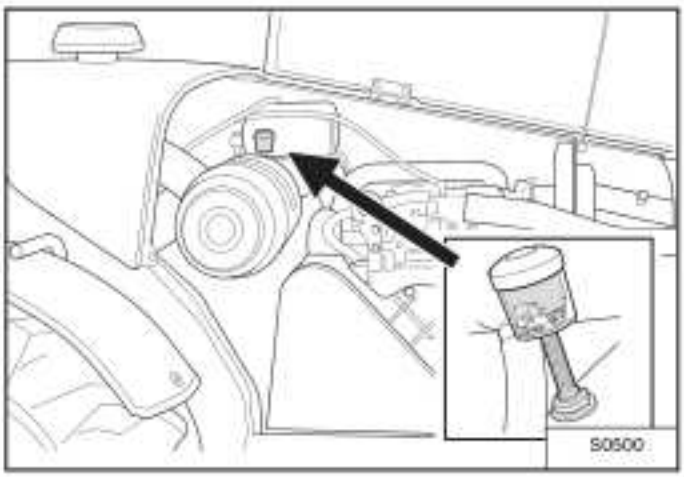
The fill plug for the windscreen washer liquid reservoir is located under the handbrake lever **[Figure 13]**.

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Air Filter Maintenance

See "Maintenance Interval" on page 48 for the correct frequency of maintenance work.

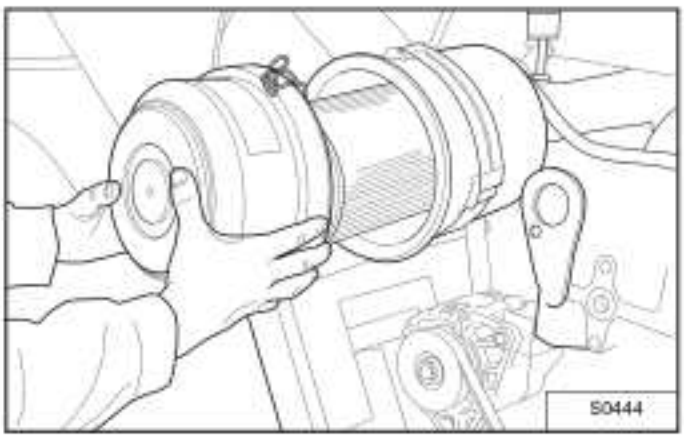
Figure 4



Irrespective of the intervals in the "Maintenance Interval" on page 48 table, the machine is provided with an indicator **[Figure 4]** to determine the condition of the air filter. When the piston in the indicator reaches the red zone, maintenance of the filter is required. Press the yellow button after the maintenance to reset the piston.

Cleaning The Air Filter's Main Cartridge

Figure 5

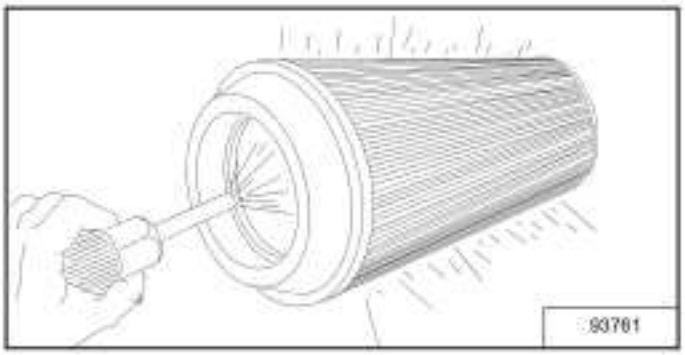


1. Remove the cover from the air filter **[Figure 5]** and take out the main cartridge.

CAUTION

The filter element is fragile. In the event of accidental damage to the cartridge during this operation, it must be replaced.

Figure 6



2. Clean the cartridge by blowing compressed air from the inside to the outside of the cartridge **[Figure 6]**.
3. Replace the cartridge and the cover.

Replacement Of The Air Filter's Main Cartridge

1. Remove the cover from the air filter **[Figure 5]** and take out the main cartridge.
2. Replace the new cartridge and the cover.

Replacement Of The Air Filter's Safety Cartridge

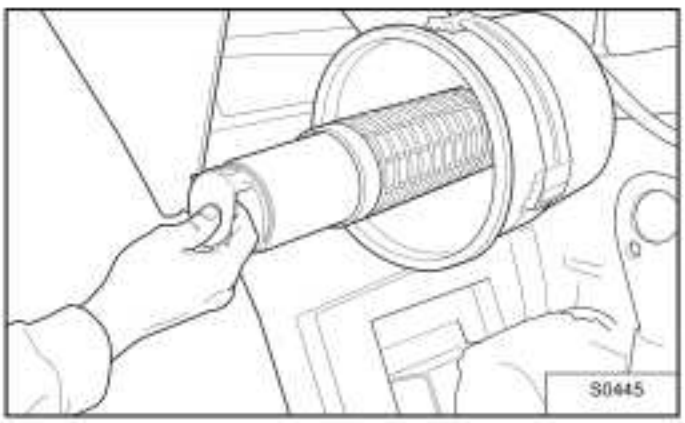
NOTICE

The interval of this operation is made to coincide with the replacement of the air filter main cartridge.

See "Replacement Of The Air Filter's Main Cartridge" on page 51.

1. Remove the cover from the air filter **[Figure 5]** and take out the main cartridge.

Figure 7



2. Remove the standby cartridge **[3.]**.
3. Replace the new cartridges and the cover.

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Dimensions and weights

Dimensions

With standard 400/70 x 20 tyres and rigid palletiser + forks.

Figure 1

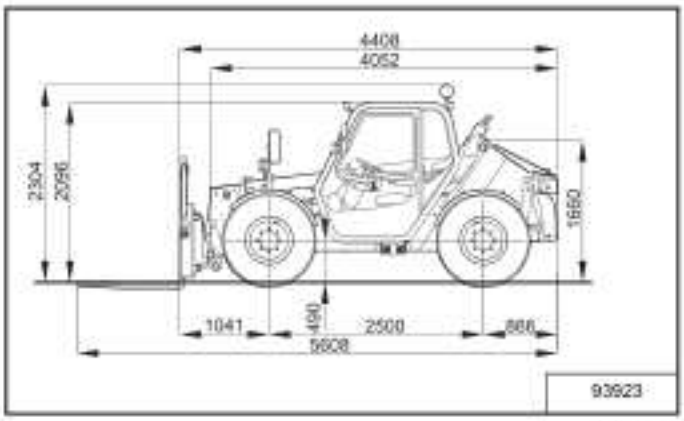


Figure 2

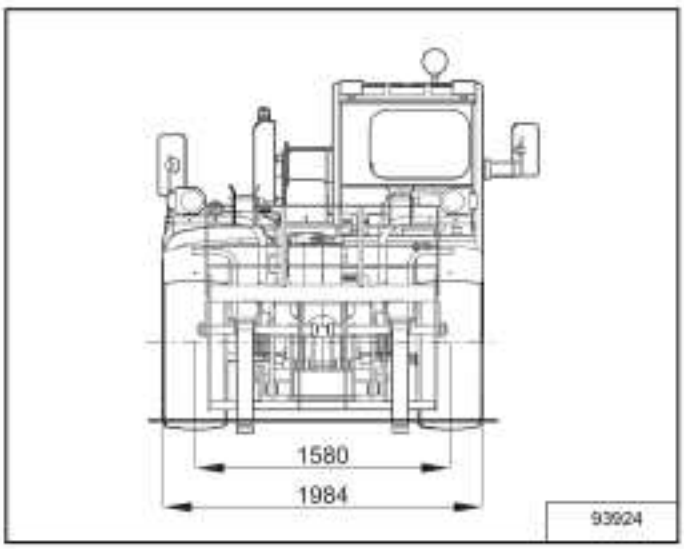
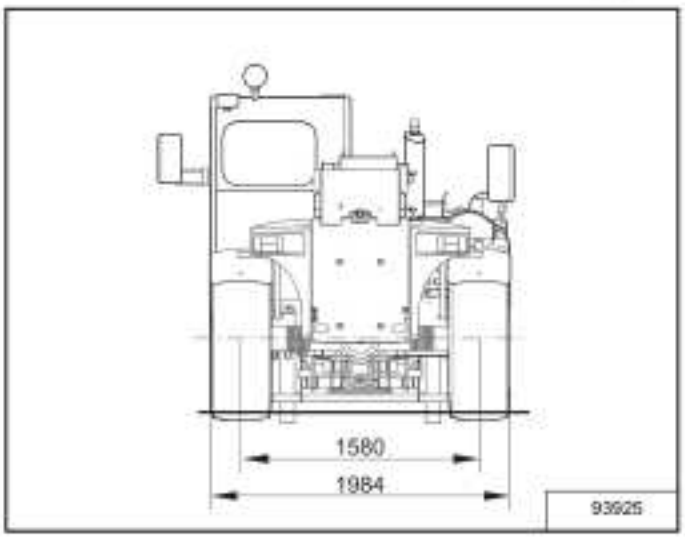


Figure 3



Reach

Reference	Value
Max. forward reach	10' 8" (3251 mm)
Max. reach @ max. lift height	3' 6" (1067 mm)
Max. reach @ practical placement height	5' 3" (1600 mm)
Max. reach below grade w/ standard carriage	
with standard tires	1' 0" (305 mm)
with low-profile tires	1' 3" (381 mm)
Reach @ dump height	2' 8" (813 mm)

Height

Reference	Value
Max. lift height:	
with standard tires	18' 4" (5588 mm)
with low-profile tires	17' 11" (5461 mm)
Practical placement height	
with standard tires	15' 9" (4800 mm)
with low-profile tires	15' 6" (4725 mm)
Bucket dump height	16' 3" (4953 mm)

Weights

Data with boom in transport position, all tanks full, with no driver and standard tyres.

Machine	Weight (Kg)		
	Total	On front axle	On rear axle
With no attachment	4,820	2,050	2,770
With palletiser and forks	5,100	2,495	2,605
With 3,500 kg load	5,280	2,760	2,520

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10. WARNING: Rollover Tire



11. DANGER: Electrical Hazard



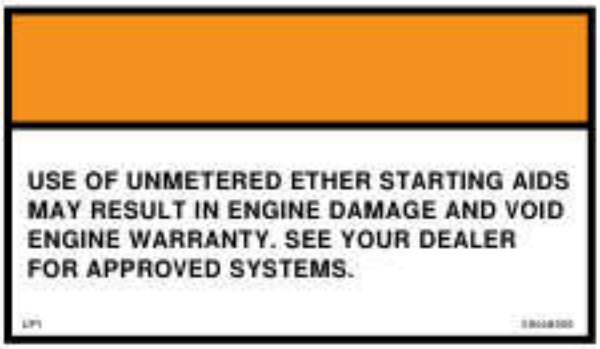
12. WARNING: Crush Area



13. WARNING: Machine Movement



14. NOTICE: Unmetered Starting



15. WARNING: Rotating Fan



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