VR638

Cab

S/N 3650 12001 & above

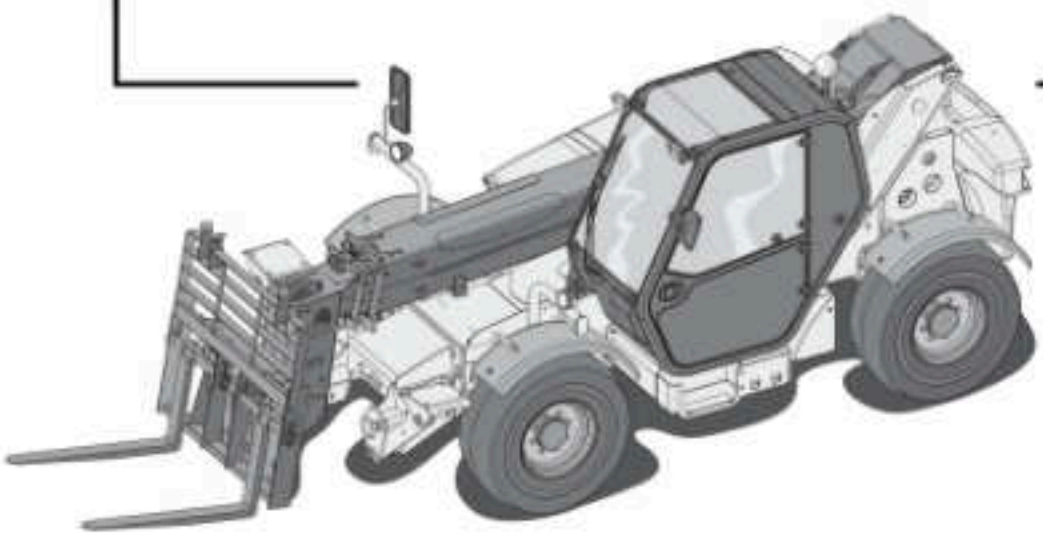
VR638

Canopy

S/N 3651 12001 & above

Ingersoll Rand

Operation and Maintenance Manual



CPN 22806483

December 2005

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MATERIAL HANDLER WARRANTY 89

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
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- Engine Serial Number V
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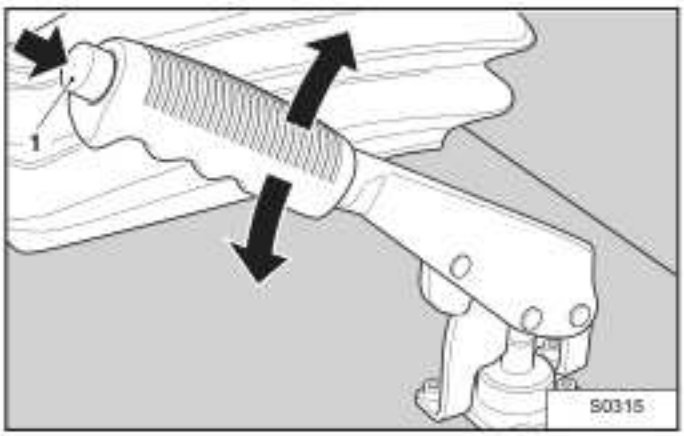
CALIFORNIA
PROPOSITION 65 WARNING

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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Handbrake

Figure 21



This lever has two functions:

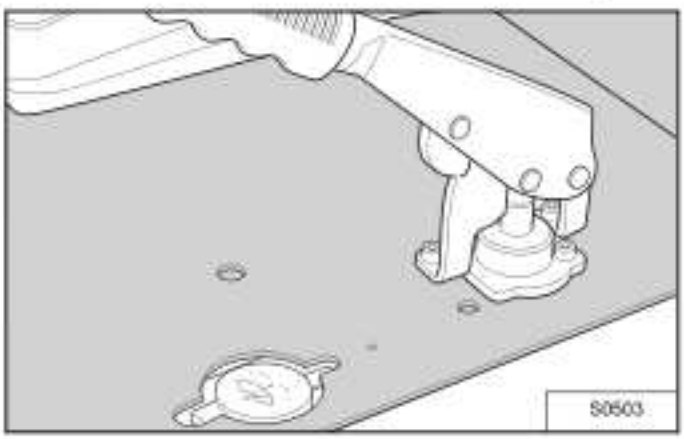
- handbrake control.
- control of the emergency brake, in case of failure of the service brake.

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

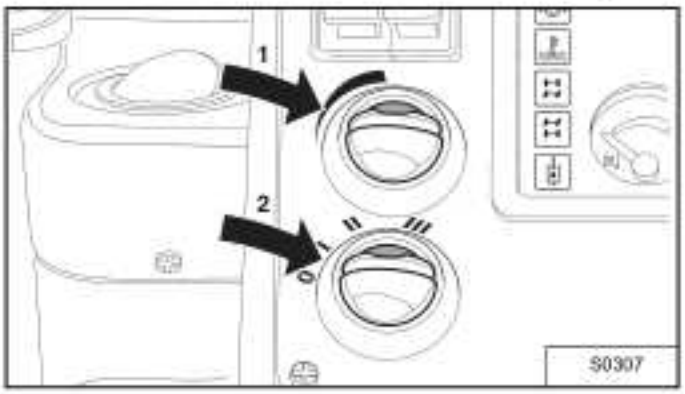
Figure 22



The fill plug for the windscreen washer liquid reservoir is located under the handbrake lever **[Figure 22]**.

Cab Heating And Defogging Control

Figure 23



Reference	Description	Function
1	**Temperature adjustment**	• Turn clockwise: to increase the temperature in the cab. • Turn counterclockwise: to lower the temperature in the cab.
2	**Fan control**	Turn the switch clockwise to increase the fan speed. • O: fan stopped. • I: slow speed. • II: medium speed. • III: high speed.

Hydraulic System

DANGER

Diesel fuel or hydraulic fluid under pressure can penetrate skin or eyes, causing serious injury or death. Fluid leaks under pressure may not be visible. Use a piece of cardboard or wood to find leaks. Do not use your bare hand. Wear safety goggles. If fluid enters skin or eyes, get immediate medical attention from a physician familiar with this injury.

WARNING

AVOID BURNS

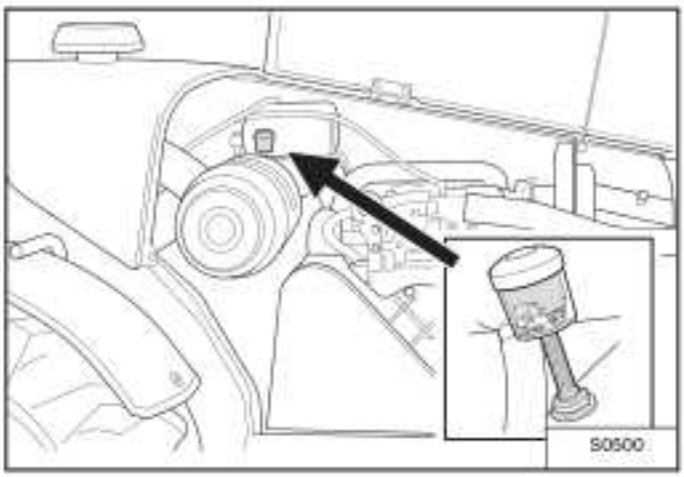
Hydraulic fluid, tubes, fittings and quick couplers can get hot when running machine and attachments. Be careful when connecting and disconnecting quick couplers.

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Air Filter Maintenance

See "Maintenance Interval" on page 50 for the correct frequency of maintenance work.

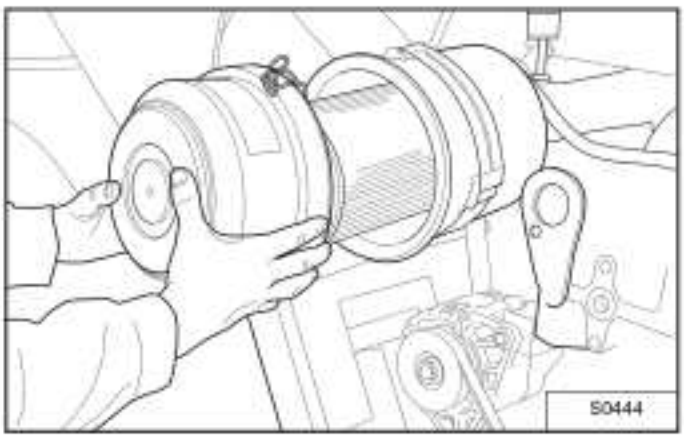
Figure 65



Irrespective of the intervals in the "Maintenance Interval" on page 50 table, the machine is provided with an indicator **[Figure 65]** 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 66

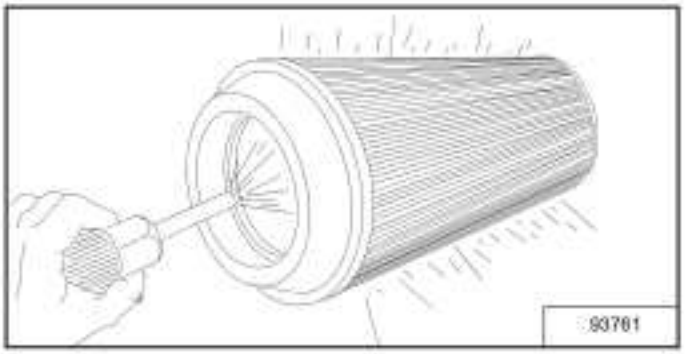


1. Remove the cover from the air filter **[Figure 66]** and take out the main cartridge.

CAUTION

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

Figure 67



2. Clean the cartridge by blowing compressed air from the inside to the outside of the cartridge **[Figure 67]**.
3. Replace the cartridge and the cover.

Replacement Of The Air Filter's Main Cartridge

1. Remove the cover from the air filter **[Figure 66]** and take out the main cartridge.
2. Replace the new cartridge and the cover.

Replacement Of The Air Filter's Safety Cartridge

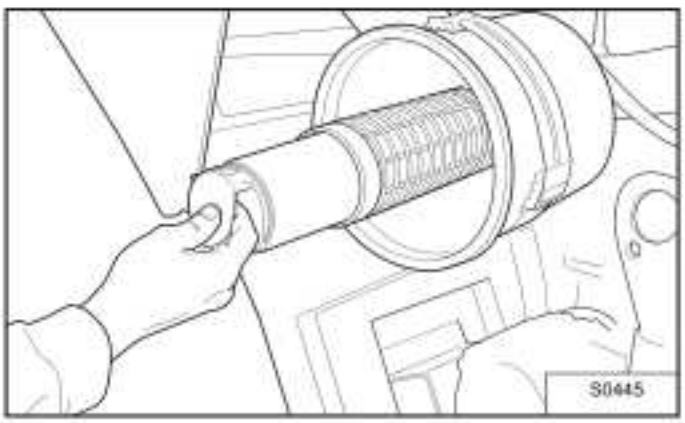
NOTICE

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 53.

1. Remove the cover from the air filter **[Figure 66]** and take out the main cartridge.

Figure 68



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

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Dimensions And Weights

Dimensions

With TITAN 13.00 x 24 12 PR G2 LIFT RIGGER tires and rigid pallet fork frame + forks.

Figure 123

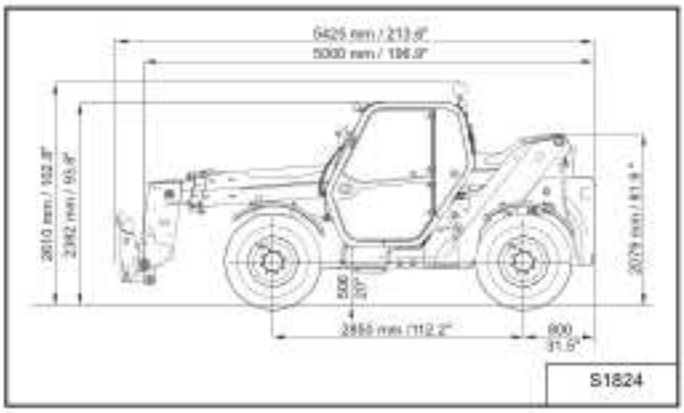


Figure 124

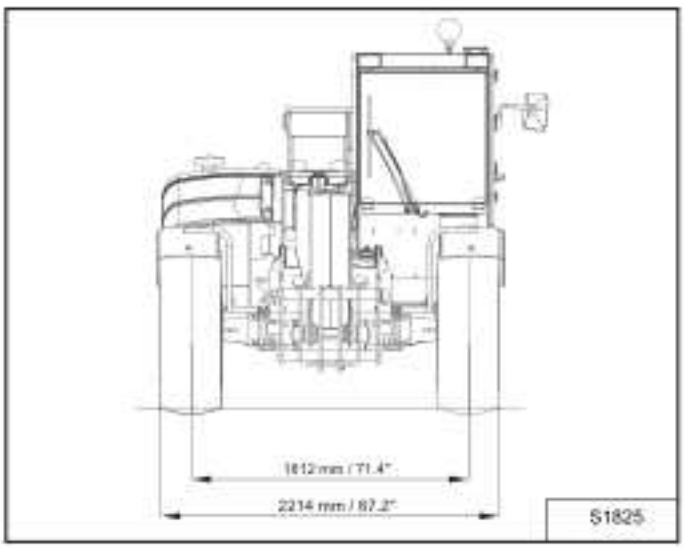


Figure 125

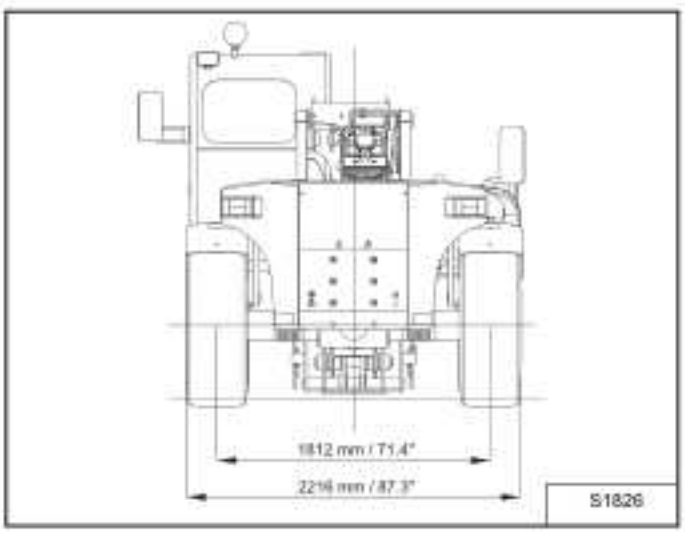
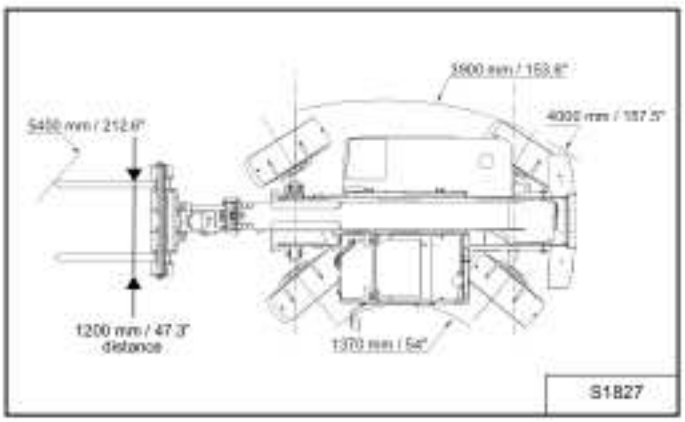


Figure 126



Reach

Maximum reach from the vertical plane in front of the front wheels, machine fitted with TITAN 13.00 x 24 12 PR G2 LIFT RIGGER tires.

Reference	Value
Telescope fully retracted	76.8" (1.95 m)
Telescope extended all the way out	318.9" (8.10 m)

Height

Height of lift from the ground in front, machine equipped with TITAN 13.00 x 24 12 PR G2 LIFT RIGGER tires.

Reference	Value
Telescope fully retracted	228" (5.80 m)
Telescope fully extended	457.5" (11.62 m)

Weights

Data with boom in transport position, all tanks full, with no driver and TITAN 13.00 x 24 12 PR G2 LIFT RIGGER tires.

	Metric	English
Without attachment	8305 kg	18.271 lbs
With forks and no load	8855 kg	19.481 lbs
With forks and 6700 lb. load	11900 kg	26.181 lbs

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10. WARNING: Rollover Tire



11. DANGER: Electrical Hazard



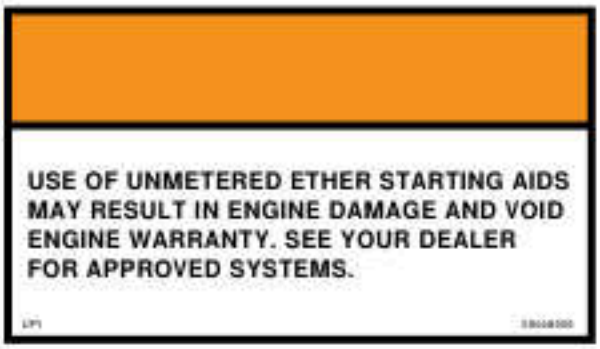
12. WARNING: Crush Area



13. WARNING: Machine Movement



14. NOTICE: Unmetered Starting



15. WARNING: Rotating Fan



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