1221E TIER 3
Wheel Loader

Operator's Manual

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CASE
CONSTRUCTION

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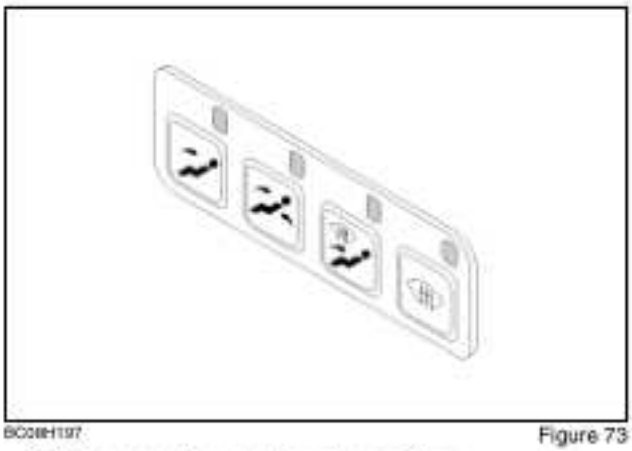
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OUTLET CHANGE OVER SWITCH



BC028H197 Figure 73

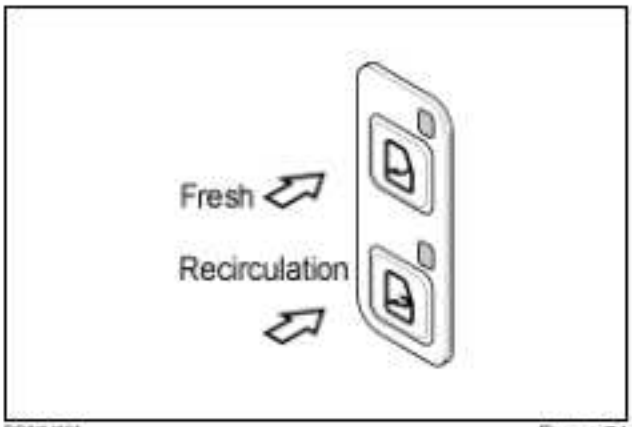
(1)There are four settings for air flow.

Switch position		Mode			
Outlet	A			•	•
	B	•	•	•	
	C		•		•
	D	•	•	•	

(2)When defroster switch is operating, the INLET switch turns to FRESH mode and the air conditioner switch turns ON.

(3)When using heater (5-Max warm), the air conditioner will not turn ON.

INLET CHANGE OVER SWITCH



BC028H361 Figure 74

The air in-let has two settings:

A. **Fresh**
Intake fresh air from the outside to circulate in the cab interior.

IMPORTANT: *Inspect the fresh air filter periodically for optimum performance.*

B. **Recirculation**
Recirculates the heated or cooled air to increase the system efficiency.

IMPORTANT: *Change air occasionally when using recirculation for an extended period. Inspect the recirculation filter periodically to maintain efficiency.*

Recirculation function operates when the system is OFF, but it can be changed as desired.

AIR LOUVERS

MAIN AIR LOUVERS

The louvers on the console direct air flow toward the operator or toward the front window.

Louvers on the right and left hand cab supports direct air toward the operator.

Adjustments can be made to direct the air flow of the louvers.

RECIRCULATION AIR LOUVER

The recirculation air louvers are behind the operator's seat next to the floor. When open, air is recirculated in the cab.

NOTE: *Always have these louvers open for maximum cooling with the air conditioning or maximum heat with the heater.*

Loosen knob (1) and remove cover to access recirculation filter (2).

DEFROST AIR LOUVERS

The upper louvers under the front windshield on the console and the louvers on the cab supports direct the air flow to defrost the windows. Additional louvers are located on the cab support posts.

To get maximum air flow on the windows, close all other louvers and turn the blower fan to the highest speed.

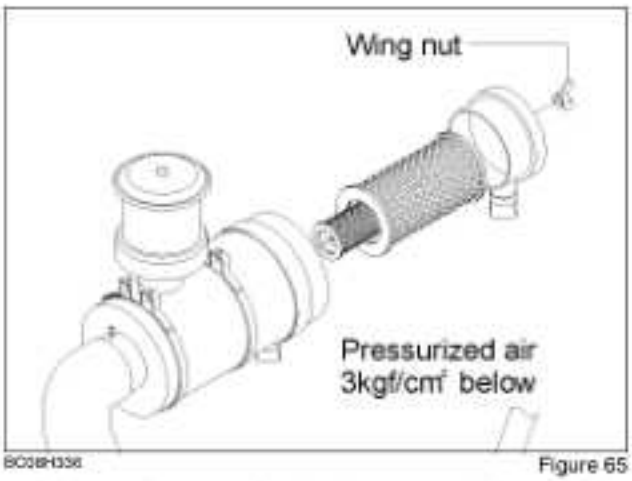
If a fogging condition occurs, make sure the recirculation air louvers are CLOSED. If equipped with air conditioning, turn the air conditioning ON and turn the heat control completely clockwise.

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500 HOUR MAINTENANCE

CLEAN AIR FILTER ELEMENT

Check the air filter element when the hour meter registers 500 hours and every 500 hours thereafter. The air filter should be checked periodically for dirt and debris build up. Check immediately if the warning light on the instrument cluster illuminates. Replace the both air filter after cleaning four times or if any damage to the filter is apparent (tears or holes).



BC038H336 Figure 65

1. Keep all non-authorized personnel clear of the area. Park the machine on level ground, in neutral with the parking brake applied.
2. Lower bucket/attachment to the ground and install the transport/service link into the lock position.

NOTE: *Replace the primary element if the filter warning lamp on the instrument cluster illuminates or the audible alarm sounds. Should the caution warnings continue after replacing the primary filter, replace the secondary filter as well.*

3. Remove the wing nut and remove the primary element.
4. Wipe the inside of the filter housing, and clean any dirt and debris away before reinstalling the filter.
5. Clean the filter with low pressure air below 3 kgf/cm2 (40 psi).
6. Inspect for tears or damage.
7. Reinstall element and replace the wing nut. If the primary element must be replaced, always replace the secondary element as well. Never clean and reuse the secondary element.

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Lift Capacity 1221E Z-Bar

	6.3 yd^3 (4.8 m^3) Bucket w/Teeth and Segments 137.8 in. (3500 mm) width	6.7 yd^3 (5.1 m^3) Bucket w/Bolt-on Edge 135.8 in. (3450 mm) width
Full Height	29010 lb (13160 kg)	28810 lb (13070 kg)
Ground	70770 lb (32100 kg)	69860 lb (31690 kg)

Lift Capacity 1221E Z-Bar

	7.3 yd^3 (5.60 m^3) Bucket w/Teeth and Segments 137.8 in. (3500 mm) width	7.6 yd^3 (5.8 m^3) Bucket w/Bolt-on Edge 135.8 in. (3450 mm) width
Full Height	28590 lb (12970 kg)	28310 lb (12840 kg)
Ground	69420 lb (31490 kg)	68520 lb (31080 kg)

Lift Capacity 1221E Z-Bar

	9.2 yd^3 (7.0 m^3) Bucket w/Bolt-on Edge 152.4 in. (3870 mm) width	6.3 yd^3 (4.8 m^3) Bucket Spade Nose Rock with Teeth and Segments 137.4 in. (3490 mm) width
Full Height	27620 lb (12530 kg)	26680 lb (12100 kg)
Ground	67660 lb (30690 kg)	66690 lb (30250 kg)

Lift Capacity 1221E XR

	6.3 yd^3 (4.8 m^3) Bucket w/Teeth and Segments 137.8 in. (3500 mm) width	6.7 yd^3 (5.1 m^3) Bucket w/Bolt on Edge 135.8 in. (3450 mm) width
Full Height	27510 lb (12480 kg)	27580 lb (12510 kg)
Ground	59260 lb (26880 kg)	58880 lb (26670 kg)

Lift Capacity1221E XR

	7.3 yd^3 (5.6 m^3) Bucket w/Teeth and Segments 137.8 in. (3500 mm) width	7.6 yd^3 (5.8m^3) Bucket w/Bolt-on Edge 135.8 in. (3450 mm) width
Full Height	27310 lb (12390 kg)	27120 lb (12300 kg)
Ground	58420 lb (26500 kg)	57670 lb (26160 kg)

Lift Capacity1221E XR

	9.2 yd^3 (7.0m^3) Bucket w/Bolt on Edge 152.4 in. (3870 mm) width
Full Height	26410 lb (11980 kg)
Ground	56840 lb (25780 kg)

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