

**PARTS & SERVICE NEWS**

REF NO.	AT00288A
DATE	Nov. 2, 2001

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This PARTS & SERVICE NEWS supersedes the previous issue No. AT00288 dated Jan. 18, 2001 which should be discarded.

**SUBJECT:** INTRODUCTION OF 5-LEVEL DISPLAY TYPE DUST INDICATOR

**PURPOSE:** To introduce a newly developed 5-step indication type dust indicator

**APPLICATION:** All machines

**FAILURE CODE:** AA70Z9

**DESCRIPTION:**

## 1-1. Introduction



This Service News will introduce a 5-step indication type dust indicator which has been designed to improve the maintenance ease of the air cleaner.

Since this indicator can indicate the negative pressure levels in 5 steps, the blinded state by dust of the air cleaner can be easily checked to facilitate execution of systematic maintenance works.

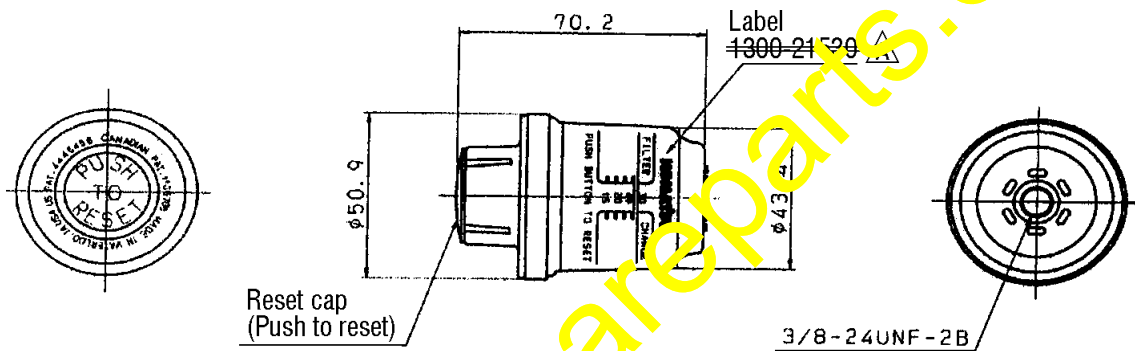
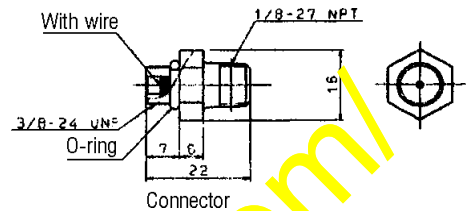
## 1-2. Revised places:

6 places 	Oct. 18, 2001	Part number change due to KES parts registration
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## 2. List of parts

Part No.	Part Name	Q'ty	Remarks
 08672-01000 <del>600-184-1920</del>	Indicator	1	 KES parts registration

3. Shape



4. Functions



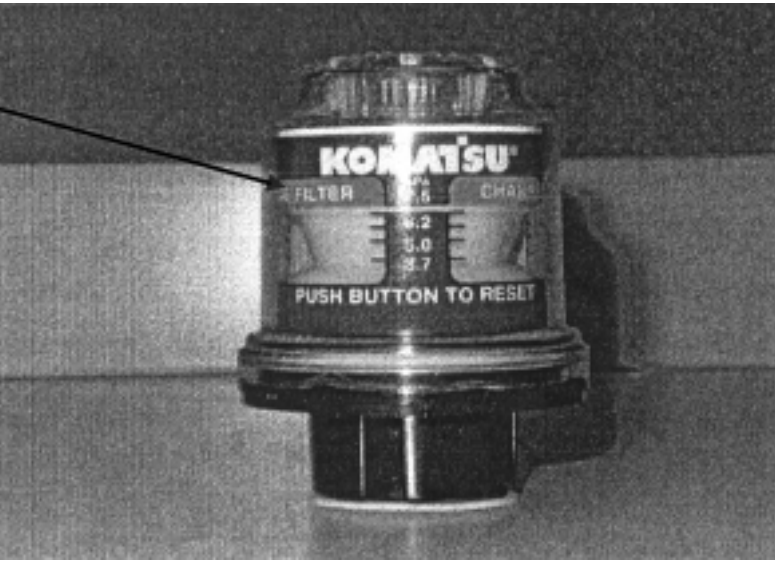
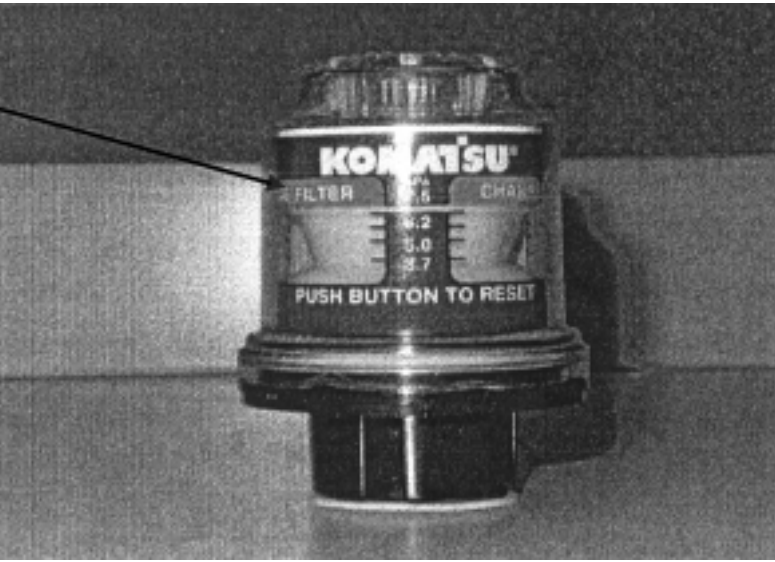
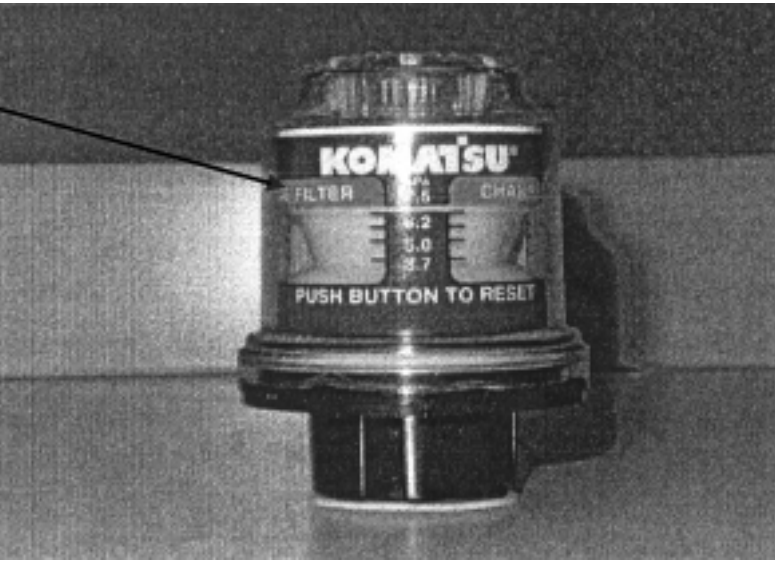
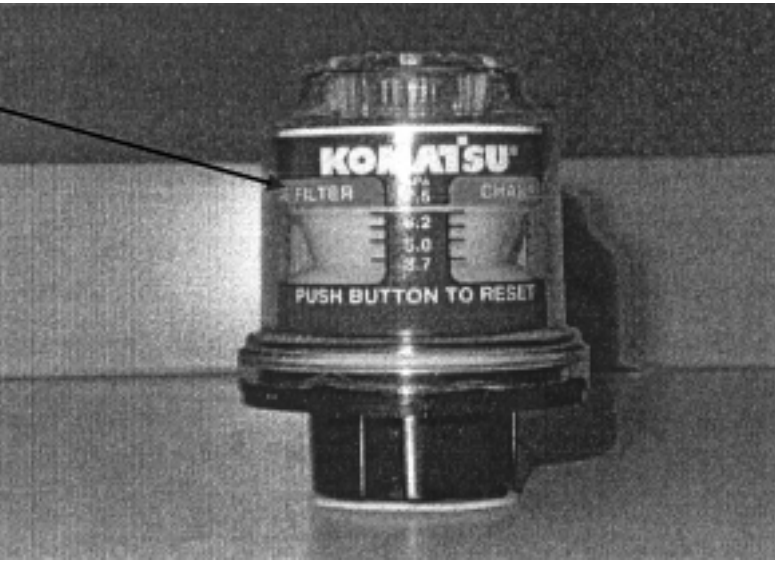
- 1) This newly developed 5-step indication type dust indicator can indicate the blinded state by dust of the air cleaner by the negative pressure levels in 5 steps. (It indicates the negative pressure levels ranging from 0 thru 760 mmH<sub>2</sub>O in 5 steps and holds the data. Push the reset button to cancel the indication.)
- 2) The 5 step indications will be made in the following ~~three different units~~ and the ranges corresponding to respective steps are as follow:  $\triangle$  KPa

Units	Step 1	Step 2	Step 3	Step 4	Step 5
KPa	0 - 3.7	3.7 - 5.0	5.0 - 6.2	6.2 - 7.5	7.5 -
$\triangle$ mmH <sub>2</sub> O	0 - 380	380 - 510	510 - 635	635 - 760	760 -
inH <sub>2</sub> O	0 - 15	15 - 20	20 - 25	25 - 30	30 -

(This dust indicator holds the indication data even when the engine is stopped. Push the reset button to cancel the indication.)

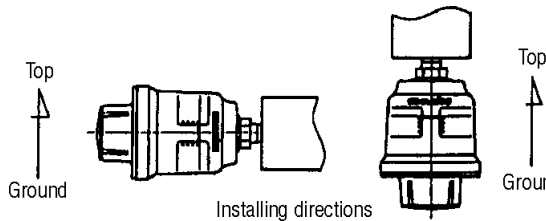
- 3) Refer to its operation statuses photographically explained on page 3.

## Operation statuses

<p>When the negative pressure level is below 3.7 kPa:</p>	
<ul style="list-style-type: none"><li>• The yellow colored indication plate showing the negative pressure level stays below the blue line.</li></ul>	
<p>When the negative pressure level is at 5.0 kPa:</p>	
<ul style="list-style-type: none"><li>• The yellow colored indication plate showing the negative pressure level comes to the 5.0 kPa line.</li></ul>	
<p>When the negative pressure level is over 7.5 kPa:</p>	
<ul style="list-style-type: none"><li>• The yellow colored indication plate showing the negative pressure level exceeds the red line.</li></ul>	

5. Installation

- 1) For easy check by the operators, install it to the chassis basically.
- 2) Install the dust indicator in the following directions.



(This dust indicator cannot be installed direct to the air cleaner.)

 08672-01000 (KES parts registration)

Part No. ~~600-184-1920~~

(This dust indicator is in the form of a set consisting of the indicator body and the connector.)

	Vertical installation	Horizontal installation
Installation methods	<p>Wrong connection if the hose is connected to the upper end of the boss since water accumulates.</p> <p>Connect the hose to the side of the boss and lead the hose at a level lower than that of the indicator.</p> <p>Correct connection</p>	<p>Wrong connection if the hose is connected to the upper end of the boss since water accumulates.</p> <p>Connect the hose to the side or to the bottom of the boss and lead the hose at a level lower than that of the indicator.</p> <p>Correct connection</p>
Precautions	<p>(1) When arranging the hose, if the height of the service indicator comes to the lowest point, dewed condensate accumulates at the connector section to cause, possibly, rusting. Consequently, lay the hose so that the lowest point is located on hose side.</p> <p>(2) Install the indicator at a position easy to look at when making inspections.</p>	
Location	Operator's cab, chassis mounting or engine mounting	Chassis mounting or engine mounting

Do not install the indicator at positions exposed to rain water, machine/vehicle body washing water or muddy water.

Do not install the indicator at positions exposed to oil, fuel or chemicals.

6. Cleaning and changing the air cleaner element

- 1) When the indication on the dust indicator reaches the red (7.5 kPa) line, clean the outer element. After finishing the cleaning work, press the reset button to cancel the indication.
- 2) If the indication on the dust indicator rises to the 5 kPa line quickly after finishing the cleaning work, replace the element (ass'y) with a new element assembly. (Even if the foresaid rise is slow, change the element if 1 year has elapsed since the last element change.)
- 3) Approximate cleaning intervals can be found out by checking the rising intervals of the indication.

**Note: Too frequent cleaning of the element may induce causes for letting dust enter into the engine on the contrary, and do not clean the element too frequently.**

7. Dust indicator changing intervals

- 1) Replace the dust indicator with a new part at the time of conducting overhauling of the engine.
- 2) Replace the dust indicator in the following cases:
  - a) When the surface of the indicator has been harmed or soiled in-reparably, and when it becomes difficult to read the indications.
  - b) When the rubber cap of the reset button has been lost or cracked.