PARTS & SERVICE NEWS

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(C)

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SUBJECT: INCREASED AIR CLEANER CAPACITY

PURPOSE: To improve the performance of the air cleaner, particularly in dusty environ-

ments.

APPLICATION: 850B Motor Grader Serial Numbers 210567 and down.

850C Motor Grader Serial Numbers 210567 and down. 870B Motor Grader Serial Numbers 210567 and down. 870C Motor Grader Serial Numbers 210567 and down.

GD650A-2BY Motor Grader Serial Numbers 210567 and Cown. GD650A-2CY Motor Grader Serial Numbers 210567 and Cown. GD650AW-2BY Motor Grader Serial Numbers 210567 and down. GD650AW-2CY Motor Grader Serial Numbers 210567 and down. GD670A-2BY Motor Grader Serial Numbers 210567 and down. GD670A-2CY Motor Grader Serial Numbers 210567 and down. GD670AW-2BY Motor Grader Serial Numbers 210567 and down. GD670AW-2CY Motor Grader Serial Numbers 210567 and down. GD670AW-2CY Motor Grader Serial Numbers 210567 and down.

FAILURE CODE: AA0065

DESCRIPTION: In some severe, dusty environments it has been reported that the grader's air

cleaner must be serviced to t equently. The following kit will install a larger size air cleaner to reduce the servicing frequency of the original air intake sys-

tem.

The following replacement parts must be ordered:

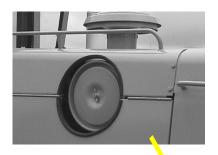
Table 1: Replacement Parts

Table 1. Replacement 1 at is						
No.	Part Number	Quantity	Description			
1	207-01-68250	1	Air Cleaner			
2	1440 160 H91	1	Air Cleaner Bracket			
3	27 588 R1	4	Bolt			
4	33 38- 44-5	4	Washer			
5	6151-1 -48 10	2	Band			
6	6342-11-4241	2	Bolt			
7	14 <mark>4 \</mark> 169 H1	1	Tube (air cleaner intake)			
8	437 923 R91	1	Clamp			
9	1440 165 H1	1	Hose (air cleaner to turbo)			
10	437 922 R91	1	Clamp			
11	438 719 R91	1	Clamp			
12	9409 931	1	Elbow			
13	443 976	1	Nipple			
14	1440 193 H1	1	Indicator			
15	1439 528 H91	IF REQ.	Rain Cap - for serial no. 203705 and below			
16	1440 196 H1	1	Plate, filler			
17	1440 176 H1	1	Trim piece, 24 inch			
18	1251 075 H1	1	Trim piece, 22.5 inch			
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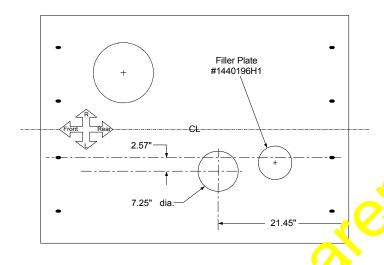


AIR CLEANER INSTALLATION INSTRUCTIONS

1. Remove the air intake cap, breather tube, hood-top and sides.



Necessary Hood-Top Nodifications

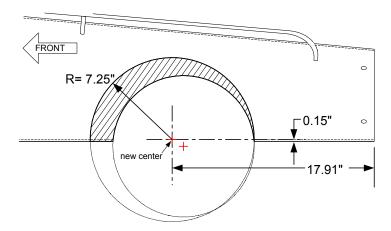


- 2. Weld the filler plate 1440 196 H1 in the old tube hole. Grind the seam smooth.
- 3. With a straight edge or chair line, mark a straight line between the centers of the hood mounting holes indicated in the drawing above.
- 4. Locate the center for the new hole 21.45 in (544.83 mm) from the rear of the hood and 2.57 in (65.278 mm) toward the left side.
- 5. Mark the new center and scribe the outline of the 3.13 inc. (79.502 mm) radius (7.25 inch (184.15 mm)) circle
- 6. Cut the new hole and grind the edges on both sides of the hood smooth.
- 7. Sand, prime, and paint the affected surface.





Necessary Hood-Side Modifications

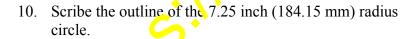


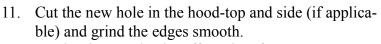
The center of the new hole should be 0.15 in (3.81 mm) above the bottom edge of the hood-side and 17.91 in (454.914 mm) from the rear edge.

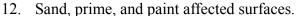


- 8. To locate the center for the new air cleaner hole, put spacers between the hood-top and side to keep the outer surface flat (if the machine has hood-sides).

 Next, clamp a flat bar in place across the hole to aid in locating the new center.
- 9. Mark and punch the new content





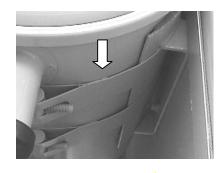




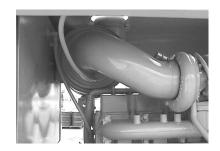




- 13. Remove the old air cleaner, mounting bracket, and hose from the air cleaner to the turbo.
- 14. Before mounting the new bracket, thread both bands (6151-11-4840) through the bracket (1440160H91) with the split seam on the inside.
- 15. Coat the threads on each of the 4 bolts (27588R1) with anti-seize compound (NAPA P/N 765-1363, IOCK-TITE 767, or equivalent). Mount the bracket using the 4 bolts and washers (33384H45), tighten to 28 lbf ft (37.963 N•m).
- 16. Loosely mount the new air cleaner (207-01-68250) in the (2) bands.
- 17. Thoroughly clean inside the turbo and the hose with a lint free cloth.
- 18. Attach the new breather tube (1440169H1) to the top of the air cleaner and secure it in place with the clamp (438723R91). Tighten to 70~80 lbf in (7.9~9.0 N•m)
- 19. Set the reworked hood in place and align the air cleaner so the breather tube is centered in the hoe
- 20. Install the new air intake cap (1439528H91), f applicable, and secure in place with the clamp (437923R91). Tighten to 70~80 lbf in (7.9~16 N•m).
- 21. Tighten the bolts in the bands on the air cleaner to 14~15 lbf ft (1.9~2.1 N•m).
- 22. Put the clamps (437922R91 or the larger end and 438719R91 on the smaller and, around the new hose and put the hose in place with the small end toward the turbo. Position the clamps near the end of the hose and tighten each to 70~80 lof in(7.9~9.0 N•m).
- 23. Install the new errice/dust indicator (1440193H1), elbow (9409551), and nipple (443976).
- 24. Reinstall the hord-top and hood-side.

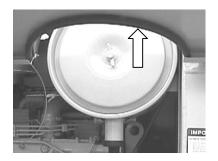






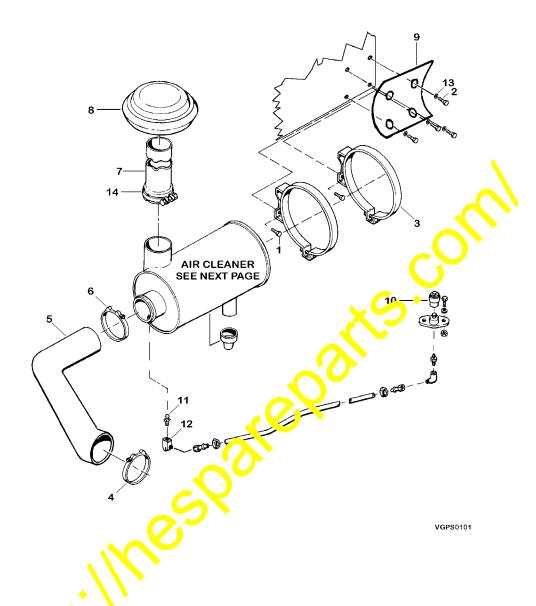


25. Fit the longer of the two rubber trim pieces (1440176H1) around the top edge of the hole with the flap toward the inside. If the machine has a hood-side, the shorter trim piece (1251075H1) fits around the bottom edge.



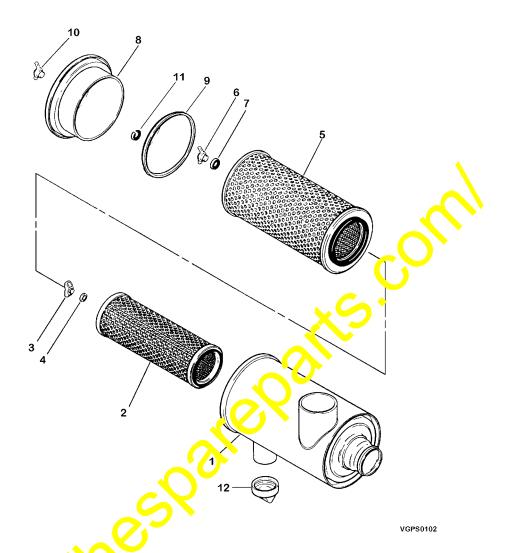


AIR INTAKE SYSTEM REPLACEMENT PARTS



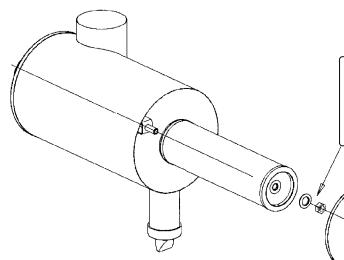
Item	Part Number	Description	Qty.
1	6643-11-4641	BOLT	2
2	27 588 71	BOLT	4
3	6151-7-4819	BAND	2
4	-33 7 '9 K91	CLAMP	1
5	144C 165 H1	TUBE	1
6	437 922 R91	CLAMP	1
7	1440 169H1	TUBE	1
8	1439 528 H91	CAP	1
9	1440 160 H91	BRACKET	1
10	1440 193 H1	INDICATOR	1
11	443 976	NIPPLE	1
12	9409 931	ELBOW	1
13	33 384 H45	WASHER	4
14	437 923 R91	CLAMP	1

AIR CLEANER ASSEMBLY



Item	Part Number	Description	Qty.
	207-01-68250	AIR CLEANER ASSEMBLY	1
1	207-01-68440	.BODY, AIR CLEANER	1
	600-181-1600	KIT, ELEMENT ASSEMBLY	1
2	600-181-1680	.ELEMENT, INNER	1
3	600-181 377	.NUT	1
4	600-151-751	.WASHER, SEAL	1
	6 <mark>16-161-1660</mark>	.KIT, OUTER ELEMENT	1
5	600-181-1580	ELEMENT, OUTER	1
6	600-181-1950	NUT, WING	1
7	600-181-4440	WASHER, SEAL	1
	600-181-1980	KIT, COVER ASSEMBLY	1
8	600-181-1690	.COVER	1
9	600-181-1770	.RING, SEAL	1
10	561-02-62370	.NUT, WING	1
11	561-02-12380	.RING, SNAP	1
12	600-181-1370	.VALVE, VACULATOR	1

ELEMENT REPLACEMENT INSTRUCTIONS



TO ASSURE PROPER SEAL, USE NEW GASKET, WASHER, AND HEX NUT SUPPLIED.

TORQUE HEX NUT TO 200-220LBF IN (22.6-24.9 N·m) MAKING SURE THAT FILTER GASKET HAS SEALED AGAINST THE HOUSING.

IMPORTANT ELEMENT REMOVAL PROCEDURE

CAREFULLY REMOVE PRIMARY ELEMENT TO AVOID DISLODGING ACCUMULATED DIRT.

REMOVE HEX NUT AND GASKET WASHER RETAINING SAFETY ELEMENT. DISCARD NUT AND WASHER.

CAREFULLY REMOVE SAFETY ELEMENT.

USE A CLEAN CLOTH AND CLEAN DIRT FROM IT SIDE HOUSING.

REPLACE OLD GASKET WASHER WITH NEW ONE SUPPLIED. HAND TIGHTEN WING BOLT (30-40 LBF IN)(3.4-4.5 N•m)

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