MAINTENANCE

SERVICE INTERVALS

No.	Items	Period	Indication on hour meter													Since then	Reference page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
M4900·M5700																				
1	Engine oil	Change	◎	○		○		○		○		○		○		○	every 100 Hr	69		
2	Engine oil filter	Replace	◎			○				○				○			every 200 Hr	75		
3	Fuel filter element	Clean		○		○		○		○		○		○		○	every 100 Hr	73		
		Replace								○							every 400 Hr	80		@
4	Front axle case oil	Change	◎											○			every 600 Hr	83		
M6800S·M8200·M9000																				
1	Engine oil	Change	◎			○				○				○			every 200 Hr	75		
2	Engine oil filter	Replace	◎							○							every 400 Hr	80		
3	Fuel filter	Replace								○							every 400 Hr	80		@
4	Water separator	Clean	◎							○							every 400 Hr	81		
5	Front differential case oil	Change	◎											○			every 600 Hr	83		
6	Front axle gear case oil	Change	◎											○			every 600 Hr	84		

IMPORTANT

- The jobs indicated by ◎ must be done after the first 50 hours of operation.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
  Please see the Warranty Statement in detail.

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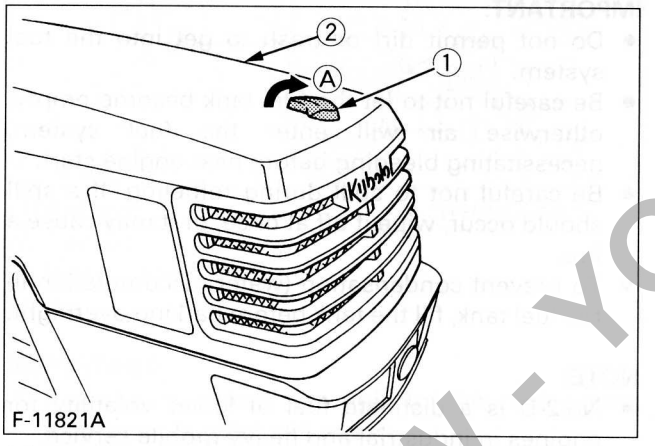
PERIODIC SERVICE

HOW TO OPEN THE HOOD

CAUTION
To avoid personal injury from contact with moving parts;
- **Never open the hood while the engine is running.**
- **Do not touch muffler or exhaust pipes while they are hot; Severe burns could result.**
- **Support hood with other hand while unlocking support link.**

■ Hood

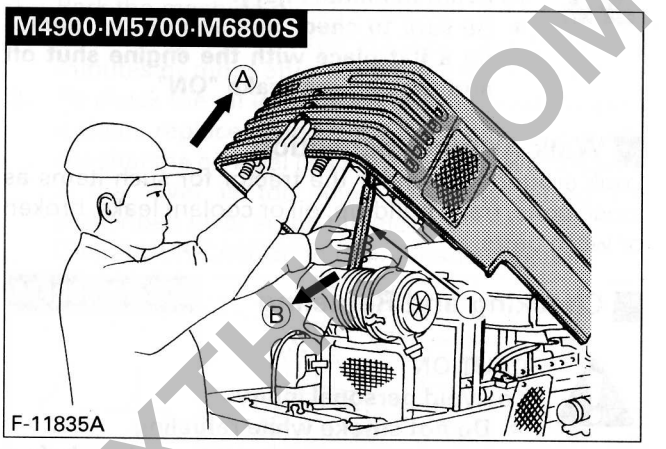
To open the hood, twist the mascot to release the latch and open the hood.



(1) Mascot
(2) Hood
(A) "OPEN"

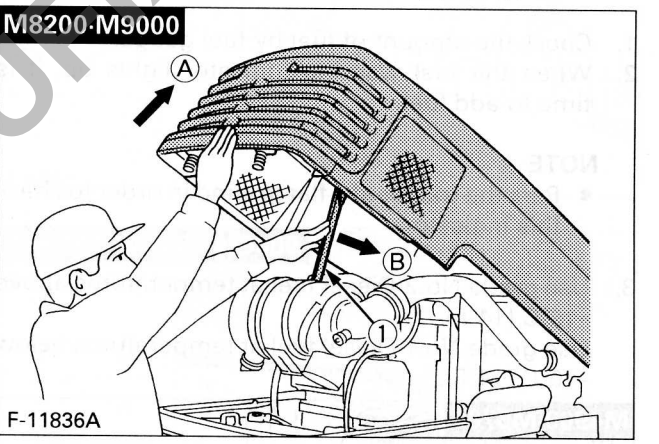
NOTE:
- To close the hood, hold the hood and release the support link.

M4900·M5700·M6800S



(1) Support link
(A) "HOLD"
(B) "PULL"

M8200·M9000



(1) Support link
(A) "HOLD"
(B) "PUSH"

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■ Checking Brake Pedals and Clutch Pedal

1. Inspect the brake and clutch pedals for free travel, and smooth operation.
2. Adjust if incorrect measurement is found: (See "Adjusting Clutch and Brake Pedal" in every 100 hours maintenance.)

NOTE:

- Brake pedals should be equal when depressed.

■ Checking Gauges, Meter and Easy Checker™

1. Inspect the instrument panel for broken gauge(s), meter(s) and Easy Checker™ lamps.
2. Replace if broken.

■ Checking Head Light, Hazard Light etc.

1. Inspect the lights for broken bulbs and lenses.
2. Replace if broken.

■ Checking Seat Belt and ROPS

1. Always check condition of seat belt and ROPS attaching hardware before operating tractor.
2. Replace if damaged.

EVERY 50 HOURS

■ Checking Engine Start System

CAUTION
To avoid personal injury:

- **Do not allow anyone near the tractor while testing.**
- **If the tractor does not pass the test, do not operate the tractor.**

◆ Preparation before testing.

1. Place all control levers in the "NEUTRAL" position.
2. Set the parking brake and stop the engine.

◆ Test 1 : Switch for the shuttle shift lever.

1. Sit on operator's seat.
2. Shift the shuttle shift lever to the forward or reverse position.
3. Depress the clutch pedal fully.
4. Disengage the PTO clutch control lever.
5. Pull out the engine emergency stop knob and turn the key to "START" position.
6. The engine must not crank.
7. If it cranks, consult your local KUBOTA Dealer for this service.

◆ Test 2 : Switch for the PTO clutch control lever.

1. Sit on operator's seat.
2. Engage the PTO clutch control lever.
3. Depress the clutch pedal fully.
4. Shift the shuttle shift lever to the neutral position.
5. Pull out the engine emergency stop knob and turn the key to "START" position.
6. The engine must not crank.
7. If it cranks, consult your local KUBOTA Dealer for this service.

◆ Test 3 : Checking Operator Presence Control (O.P.C.) System

1. Sit on the seat.
2. Turn the key to "ON" position.
3. Shift the PTO lever to "ON".
   Make sure the warning buzzer doesn't whistle.
   If the buzzer whistles while sitting on the seat, consult your local KUBOTA Dealer.
4. Stand up from the seat.
5. The warning buzzer whistles about one second after standing up. It whistles for 10 seconds.
   If the buzzer doesn't whistle, consult your local KUBOTA Dealer.

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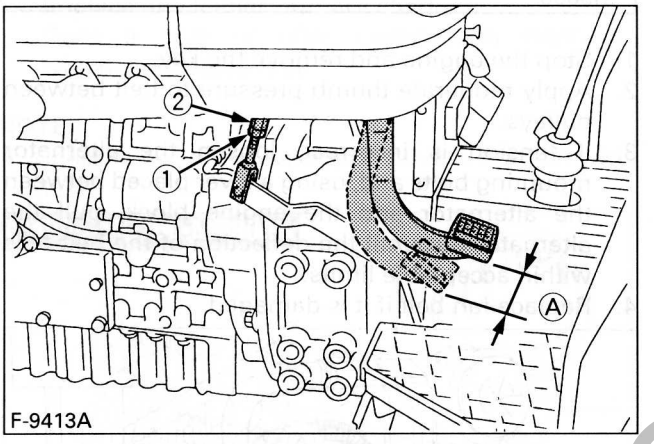
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Adjusting Clutch Pedal

Proper clutch pedal free travel	35 to 45 mm (1.4 to 1.8 in.) on the pedal

◆ **Adjusting procedure**

1. Stop the engine and remove the key.
2. Slightly depress the clutch pedal and measure free travel at the top of pedal stroke.
3. If adjustment is needed, loosen the lock nut and turn the turnbuckle to adjust the rod length within acceptable limits.
4. Retighten the lock nut.



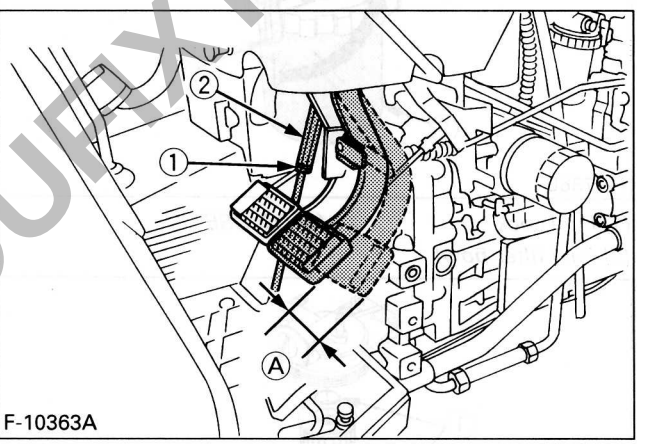
(1) Lock nut *(A) Free travel*
(2) Turnbuckle

Adjusting Brake Pedal

CAUTION
To avoid personal injury:
- **Stop the engine and chock the wheels before checking brake pedal.**

Proper brake pedal free travel	40 to 45 mm (1.6 to 1.8 in.) on the pedal
	Keep the free travel in the right and left brake pedals equal.

1. Release the parking brake.
2. Slightly depress the brake pedals and measure free travel at the top of pedal stroke.
3. If adjustment is needed, loosen the lock nut and turn the turnbuckle to adjust the rod length within acceptable limits.
4. Retighten the lock nut.



(1) Lock nut *(A) Free travel*
(2) Turnbuckle

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No.	Items	Period	Indication on hour meter													Since then	Reference page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
COMMON ITEMS																				
1	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	68		
2	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	69		
3	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	71	*6	
4	Greasing	——		○		○		○		○		○		○		○	every 100 Hr	70		
5	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	73		
6	Clutch	Adjust	◎	○		○		○		○		○		○		○	every 100 Hr	74		
7	Brake	Adjust		○		○		○		○		○		○		○	every 100 Hr	74		
8	Air cleaner element Double type】 Primary element	Clean		○		○		○		○		○		○		○	every 100 Hr	72	*1	@
		Replace															every 1 year	85	*2	
	Secondary element	Replace															every 1 year	85		
9	Radiator hose and clamp	Check				○				○				○			every 200 Hr	76		
		Replace															every 2 years	86		
10	Power steering oil line	Check				○				○				○			every 200 Hr	77		
		Replace															every 2 years	86		
11	Fuel line	Check				○				○				○			every 200 Hr	77		@
		Replace															every 2 years	86		
12	Toe-in	Adjust				○				○				○			every 200 Hr	77		
13	Intake air line	Check				○				○				○			every 200 Hr	76		@
		Replace															every 2 years	86	*4	
14	Greasing (2WD front wheel hub)	——								○							every 400 Hr	81		
15	Hydraulic oil filter	Replace	◎					○						○			every 300 Hr	78, 79	*5	
16	Transmission fluid	Change	◎											○			every 600 Hr	82		
17	Front axle pivot	Adjust												○			every 600 Hr	84		
18	Engine valve clearance	Adjust															every 800 Hr	85	*3	
19	Fuel injection nozzle injection pressure	Check															every 1500 Hr	85	*3	@
20	Injection pump	Check															every 3000 Hr	85	*3	@
21	Cooling system	Flush															every 2 years	85, 86		
22	Coolant	Change															every 2 years	85, 86		
23	Fuel system	Bleed															Service as required	87, 88		
24	Clutch housing water	Drain																88		
25	Fuse	Replace																89		
26	Light bulb	Replace																89		

IMPORTANT

- The jobs indicated by ◎ must be done after the first 50 hours of operation.

*1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
*2 After 6 times of cleaning.
*3 Consult your local KUBOTA Dealer for this service.
*4 Replace only if necessary.
*5 Hydraulic oil filter should be changed more often in severe conditions.
*6 When the battery is used for less than 100 hours per year, check the fluid level annually.

- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
  Please see the Warranty Statement in detail.

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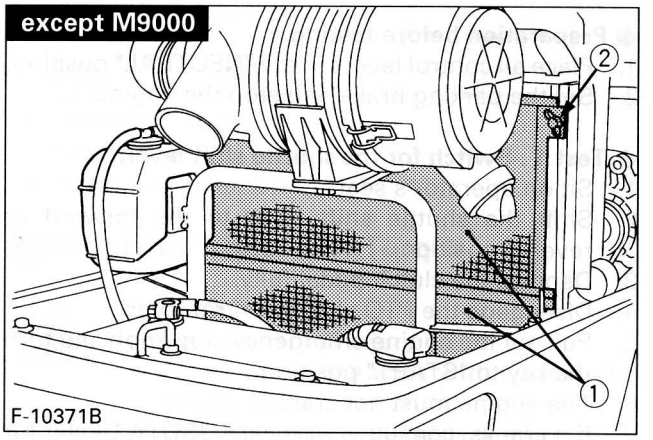
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Cleaning Grill, Radiator Screen and Intercooler Screen

CAUTION
To avoid personal injury:
- **Be sure to stop the engine before removing the screen.**

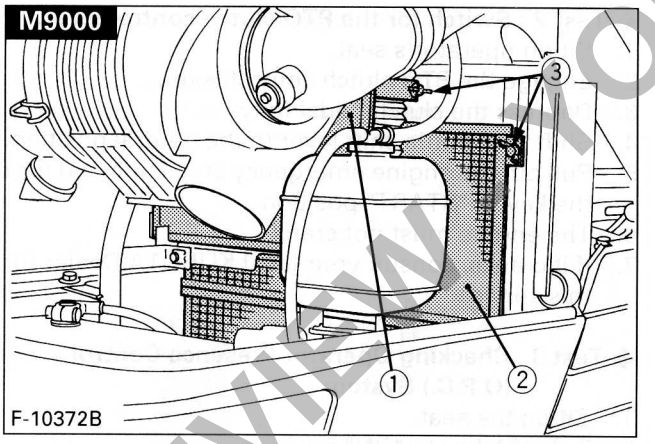
1. Check front grill to be sure it is clean from debris.
2. Detach the screen and remove all foreign materials.

except M9000



(1) Radiator screen
(2) Bolt

M9000



(1) Intercooler screen
(2) Radiator screen
(3) Bolt

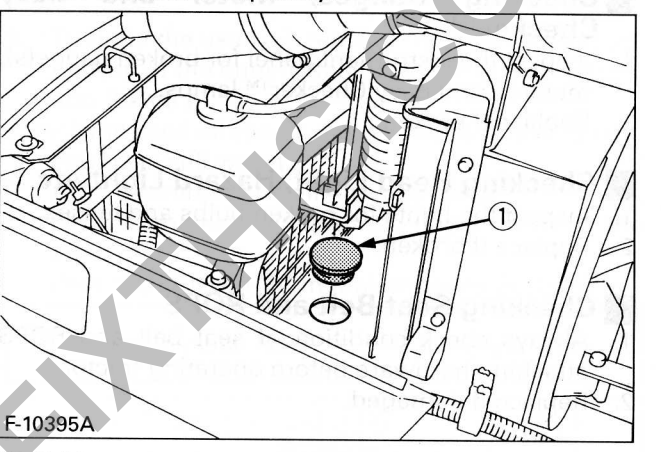
IMPORTANT:
- Grill and screen must be clean from debris to prevent engine from overheating and to allow good air intake for the air cleaner.

Cleaning the Battery Mount

M6800S·M8200·M9000

CAUTION
To avoid personal injury:
- **Be sure to stop the engine before removing the cap.**

If dust or chaff has accumulated between the battery and radiator, remove the rubber cap and clean the front of radiator completely.

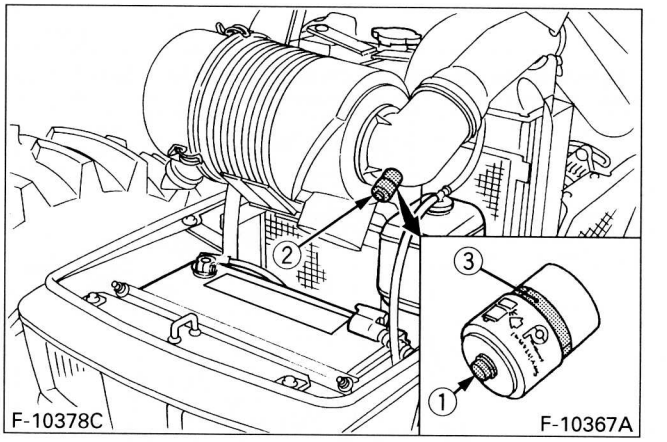


(1) Rubber cap

Checking Dust Indicator

M6800S·M8200·M9000

There is a dust indicator on the air cleaner body. If the red signal on the dust indicator is visible, clean the element immediately. (See "Cleaning Air Cleaner Primary Element" in Every 100 hours maintenance.) Reset the red signal by pushing the "RESET" button after cleaning.



(1) "RESET" button
(2) Dust indicator
(3) Red signal

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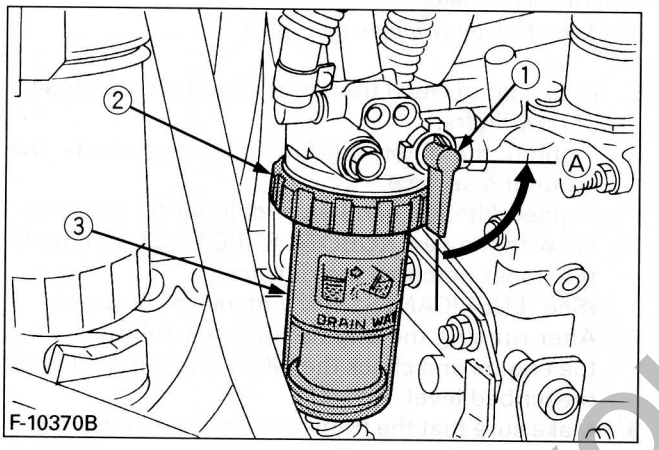
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■ Cleaning Water Separator

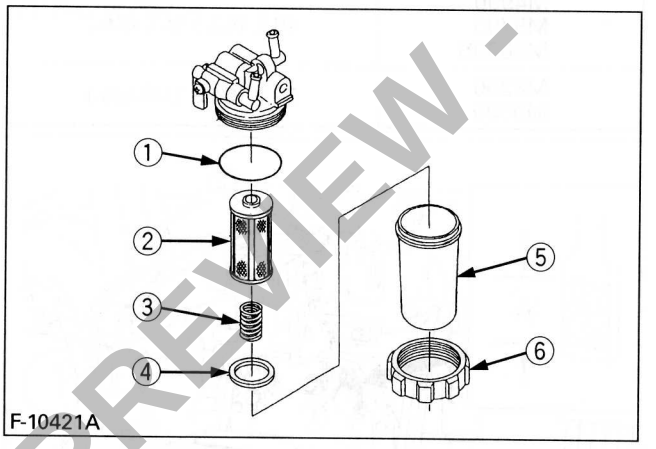
M6800S·M8200·M9000

This job should not be done in the field, but in a clean place.

1. Close the fuel cock.
2. Unscrew the retainer ring and remove the cup, and rinse the inside with kerosene.
3. Take out the element and dip it in the kerosene to rinse.
4. After cleaning, reassemble the water separator, keeping out dust and dirt.
5. Bleed the fuel system.
   (See "Bleeding Fuel System" in as required maintenance)



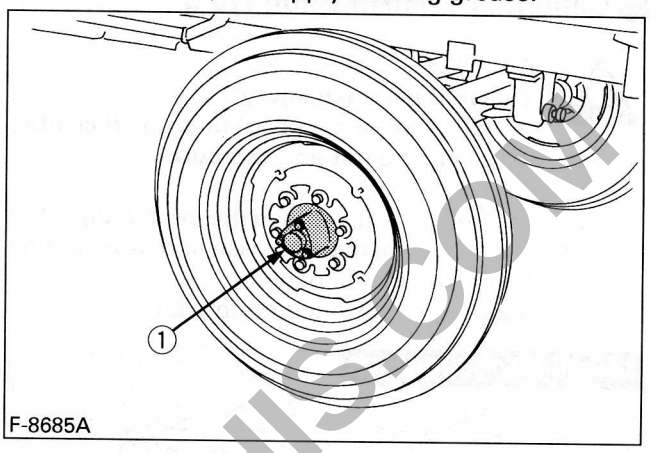
(1) Fuel cock
(2) Retainer ring
(3) Cup
(A) "CLOSE"



(1) O ring
(2) Element
(3) Spring
(4) Red float
(5) Cup
(6) Retainer ring

■ Lubricating Grease Fitting 【All 2WD Models】

Detach the cover, and apply bearing grease.



(1) Front wheel hub cover

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